Title

公表文献調査報告書

イミダクロプリド

Summary of the literature data for

Imidacloprid

Date

2022/ 6/16
2022/ 9/ 6 修正
2023/12/19 修正

Autuor(s)

[redacted]

バイエルクロップサイエンス株式会社
Bayer CropScience K.K.

目次

別添

概要

イミダクロプリドに関する公表文献の検索を「再評価における公表文献の提出について」（令和3年10月1日　3消安第3460号）及び「公表文献の収集、選択などのためのガイドライン」（令和3年9月22日　農業資材審議会農薬分科会決定 (令和5年7月27日一部改正)、以下、「文献ガイドライン」）に従い実施した。

再評価資料の提出期限の始期の6か月前から過去15年間 (2006年4月1日～2021年3月31日、以下、「公表文献収集期間」)が公表文献の収集期間となるが、データベースが一定間隔で更新されることを考慮して、公表文献収集期間よりも広い期間 (2006年1月1日～2021年3月31日)の公表文献について、STNプラットフォームを利用して13の科学論文データベースからイミダクロプリドに関する公表文献を検索した。検索は、化合物名、影響及び生物種により行った。また、国際機関や欧米の評価機関の評価書に引用されている文献 (以下、「海外評価引用文献」)の一部は、STNプラットフォームを利用した検索により収集されなかったため、STNプラットフォームで検索された文献リストに海外評価引用文献を追加した。更に、ここから公表文献収集期間外のもの及び重複を除いて、イミダクロプリドに関して収集した公表文献とした。なお、海外評価引用文献については、2006年3月31日以前のものも収集対象とした。
このように収集したイミダクロプリドに関する公表文献から、まず、海外評価引用文献を抽出した。抽出した海外評価引用文献のうち、日本の評価において明らかに利用されないと考えられる文献は適合性なしと判断した。残りの海外評価引用文献は、適合性分類及び信頼性評価をせずに(一部の文献についてはこれらの分類及び評価を行った)、評価終了とした。続いて、海外評価引用文献以外の残りの文献について、表題と要約による適合性の確認(Rapid Assessment (RA))を行った。続いて、RA で適合性ありと判断された文献に関して、文献全文による適合性分類（Detailed Assessment (DA))を行った。更に、DA で適合性区分 a とされた文献については、信頼性を確認した。また、海外評価引用文献及び RA で適合性ありと判断された文献については、分野(ヒトに対する毒性、農産物及び畜産物への残留、生活環境動植物及び家畜に対する毒性、環境動態)の特定を行った。

以上の結果、公表文献収集期間に発行された文献のうちデータベース間の重複を除いた全文献数が9440文献(このうち、STNプラットフォームで検索されず海外評価引用文献であるために追加した文献数は375)、海外評価引用文献のうち適合性が否定されなかったものが288文献、適合性区分aが18文献、適合性区分bが28文献、適合性区分cが42文献であった。

詳細を付録1～8に示す。

検索に使用したキーワード及び検索条件を別添1に示した。
適合性評価の第2段階で「適合性なし」と判断した論文リストを別添2に示した。
適合性評価の第2段階で「区分a」「区分b」「区分c」へ分類された論文リストを別添3に示した。
海外評価引用文献について、引用した機関、引用された評価書名、発行年等の情報を別添4に示した。
一部の文献については、文献の適合性及び信頼性判断理由を別添5に別途記載した。
ヒトに対する毒性の論文については、他の分野の論文と区別なくその評価結果を本文献調査報

告書に収載し報告した上で、別途、内閣府食品安全委員会「残留農薬の食品健康影響評価における公表文献の取扱いについて（令和 3 年 3 月 18 日 農薬第一専門調査会決定）」の別添様式例 1 及び 2 に従った一覧を作成し、別添 6 に示した。
適合性区分 a、b 及び c の文献及び海外評価引用文献(適合性なしと判断されなかったもの)については、別添 7 にコピーを添付した。

付録

1　検索に用いたデータベース、検索日及び検索に用いたデータベースに関する情報

表 1　文献検索に用いたデータベースの概要

データベース名	データベースの特徴、収載分野等	収載範囲、文献数	更新頻度	検索日	検索対象期間
Agricola	農業、食品化学、栄養学等、農業及びその関連分野の情報が世界の主要な文献から収録されている。	7,100,000 件以上（2020 年 9 月現在）。収録年代は 1970 年以降。	毎月	2021 年 10 月 12 日	2006 年 1 月 1 日 ～ 2021 年 3 月 31 日
Biosis	生物学を含むライフサイエンス分野全般を広く収録。	27,800,000 件以上（2019 年 4 月現在）。収録年代は 1926 年以降。	毎週		
CABA	林学、獣医学、食品を含む農学関連の全分野	9,900,000 件以上（2020 年 9 月現在）。収録年代は 1973 年以降。	毎週		
Chemical Abstracts	生化学、有機化学、高分子化学、応用科学、分析など化学及び周辺分野。	43,700,000 件以上（2021 年 3 月現在）。収録年代は 1907 年以降。	毎週		
Derwent Drug File (DRUGU)	合成、分析、生化学、薬理学、代謝、毒性学など医薬品に関する全ての分野。	1,817,971,000,000 件以上（2020 年 9 月現在）。収録年代は 1983 年以降。	毎週		
EMBASE	生物医学及び薬学領域。医薬品に関連する文献を多く収録。	36,400,000 件以上（2019 年 8 月現在）。収録年代は 1947 年以降。	毎日		
Esbiobase	生物学研究に関する全分野。	8,500,000 件以上（2020 年 9 月現在）。収録年代は 1994 年以降。	毎週		
IPA	米国薬剤師会が製作し、薬学及び健康関連文献等を収録する。	682,900 計以上（2019 年 8 月現在）収録年代は 1970 年以降。	月 2 回		
Medline	生物医学及び薬学、歯学、看護学、獣医学など。	30,000,000 件以上（2019 年 8 月現在）。収録年代は 1946 年以降。	週 6 回		
PQSciTech	収録範囲は農業、医学、環境学、海洋学、薬剤学など非常に広く、エンジニアリングからライフサイエンスに及ぶ科学・技術分野。	33,600,000 件以上（2021 年 1 月現在）。収録年代は 1962 年以降	毎月		
Scisearch	主要な科学、技術、医学雑誌等を収録する。	47,700,000 件以上（2019 年 8 月現在）。収録年代は 1974 年以降	毎週		
Toxcenter	薬物や化学物質の薬理学的、生化学的、生理学的、毒物学的作用に関する情報を収録。	14,400,000 件以上（2019 年 8 月現在）。収録年代は 1907 年以降	毎週		
FSTA	食品化学と食品工業分野の文献情報	1,590,000 件以上（2020 年 9 月現在）。収録年代は 1969 年以降	毎週		

(参照)　https://www.jaici.or.jp/stn/dbsummary/db.html

2　検索に使用したキーワード、検索の条件

(1) 対象とする農薬

表 2 に記載した条件でイミダクロプリドに関する文献を検索した。

表 2　検索条件

一般名	Imidacloprid
IUPAC 名	1-(2-Chloro-5-pyridylmethyl)-2-(N-nitroimino)imidazolidine
CAS 番号	138261-41-3
検索に使用したキーワード、検索の条件	別添 1 に示した

(2) 検索対象となる影響

影響を幅広く検索するため、別添 1 に示したいずれかのキーワードが含まれる場合に検索されるように設定した。

(3) 検索対象の生物種等

生物種等を幅広く検索するため、別添 1 に示したいずれかのキーワードが含まれる場合に検索されるように設定した。

3　評価目的との適合性評価 (第 1 段階、第 2 段階)及び信頼性評価で設定した判断基準

(1) 第 1 段階：文献の表題及び概要に基づく適合性評価 (RA)

第 1 段階として、文献の表題及び要約に基づき、下記の①から⑮、⑲等に該当するものは明らかに評価の目的と適合しない文献と見なした。

① 当該農薬と関係しない論文 (当該農薬の代替剤等)
② 政策、社会、経済分析に関する論文
③ 農産物等の生産、流通に関する論文
④ 薬効、薬害、物理的化学的性状に関する論文
⑤ 分析法やその開発に関する論文
⑥ 新規合成法や基礎化学の観点で記載された論文
⑦ 特許関連文献
⑧ リスク評価をする上で十分なデータや情報を含まない学会発表等の概要や総説、成書
⑨ リスク評価に使用できる新規のデータが提示されていない意見書
⑩ 科学論文や規制についての総説を含む二次情報において、当該文献が参照する一次資料(原著)の確認ができないもの
⑪ 一般的な農薬の暴露に関する論文 (当該農薬に限定せず、広範囲の農薬について記載されたもの)
⑫ 異なる有効成分に由来する混合製剤の毒性に関する論文
⑬ 4 分野 (ヒトに対する毒性、農産物及び畜産物への残留、生活環境動植物及び家畜に対する毒性、環境動態)に関係しない論文
⑭ 日本で登録されている処方以外の製剤に関する論文
⑮ コンピュータシミュレーション等を用いたドライラボのみの論文
⑲ 日本語、英語以外の論文

(2) 第 2 段階：文献の全文に基づく適合性評価 (DA)

第 1 段階で除外した以外の公表文献については、文献全文の内容に基づいて、以下の手順に従って評価目的との適合性を検証し、その結果により分類した。

(ア) 評価の目的と適合しない文献の除外

文献全文の内容に基づき、(1) 第 1 段階の「文献の表題及び概要に基づく適合性評価 (RA)」に示した①から⑮、⑲等に加え、以下の⑯から⑱に該当するものは明らかに評価の目的と適合しない文献と見なした。

⑯ 試験設計、試験系、試験種、被験物質、暴露経路等が評価に活用する観点で妥当でないもの
  a) 試験方法が記載されていないもの
  b) 適切に評価できる試験種で実施されていないもの
  c) 適切な経路で投与／処理されていないもの
  d) 投与又は処理した被験物質量が明記されていないもの

e) 添加に用いた媒体が確認できないもの
f) 分析法が記載されていないもの

⑰ 日本の代表的な使用方法／使用条件における評価に活用できない文献（ほ場条件、土性等）

⑱ 日本の評価に用いられるエンドポイントが得られていない論文

(イ) 評価の目的と適合した文献の分類

(ア)で除外した以外の文献については、適合性があると判断した文献とし、下記①の分類基準に従って全文をレビューし、下記②の 3 つの区分に分類した。

① 分類基準

1. 実施している試験環境がテストガイドライン (TG)で定める条件と合っていること
2. 投与又は処理した被験物質の純度が明記されていること
3. 統計解析が可能な動物数／例数が確保されていること
4. 複数の用量で実施されていること (最低 3 用量で実施)
5. 無処理区 (コントロール区)が設定されており、TG に照らしその結果が適正であること
6. 解析方法及び結果が報告されていること

ヒトに対する毒性に関して、区分 a に該当するかどうかについては、食品安全委員会で示された「定量的データ」として分類される下記基準を参考とした。

- 公表文献で用いられた用量が、研究内容と同等である安全性試験で用いられた最低用量よりも低いこと
- 公表文献の研究結果が、他の試験結果と比較できる単位を用いて報告されていること
- 研究の結論、エンドポイント及び用量が正確で、信頼でき、妥当であることを実証するための十分な情報が公表文献中に提供されており、研究結果が再現される可能性があると判断できること

② 分類区分

表 3　適合性分類基準

区分	該当する文献
a	リスク評価パラメーター(ADI、ARfD、AOEL、残留基準、生活環境動植物の登録基準、水域 PEC 等)を設定又は見直すために利用可能と判断される文献
b	リスク評価パラメーターを設定する際の補足データとして利用が可能と想定される文献
c	a 又は b に分類されない文献

(ウ) 結果の信頼性に基づく分類

評価目的への適合性評価において「区分 a」に分類した文献については、Klimisch における分類を参考として、下記の分類基準に基づき、信頼性を評価した。

表 4　Klimisch 基準の概要

分類	信頼性	判断基準
1	信頼性あり (制限なし)	以下のいずれかの試験/データに該当する場合。 ・有効性が確認された方法又は国際的に認められたテストガイドラインに基づいて実施されている（GLP 適合が望ましい）。 ・試験項目（評価パラメーター）が特定（国レベル）のテストガイドラインに基づいている。 ・全ての試験項目がテストガイドラインに示された方法と関連性が強い/同等により報告されている。
2	信頼性あり (制限あり)	以下のいずれかの試験/データに該当する場合（大抵は非 GLP 試験）。 ・試験項目は特定の試験ガイドラインに完全には準拠していないが、内容が受け入れ可能である。 ・試験方法がテストガイドラインから逸脱しているものの、詳細な報告に基づき科学的に受け入れ可能な結果が示されている。
3	信頼性なし	試験系、被験物質又は暴露経路の妥当性、記載情報の不十分さ等の観点から、エキスパートジャッジのためには許容できないと考えられる試験/データ
4	評価不能	試験の詳細が不明であり、要約のみの記載又は二次情報（書籍、総論等）として記載された試験/データ

生活環境動植物及び家畜に対する毒性並びに環境動態の分野については、6278 号局長通知で定めるテストガイドラインへの適用状況を中心にそれぞれ以下のような分類基準を設定し、Klimisch 基準のどの分類に該当するかを判断した。

(ア) 生活環境動植物及び家畜に対する毒性

① 水生生物試験では、被験物質が水に溶解していること
② 供試した生物種の由来、飼育条件、系統、週齢、体重あるいは体長、等が明らかであること
③ 試験期間の環境（温度等）が TG に照らし適切であること
④ 試験期間を通じて計画した濃度で被験物質に暴露していること
⑤ 経時的な観察記録や結果の確認がなされていること

(イ) 環境動態

① 試験系の条件が明記されていること（たとえば、土壌の試験であれば、土性、pH、有機炭素含量、密度、水分含量、微生物活性等）
② 試験に使用した土壌等が TG で定める条件を満たしていること
③ サンプリング方法が TG で定めた条件をみたしていること

④ サンプリング後の試料の保管中の被験物質の安定性が検証されていること
⑤ サンプリング後の試料の保管条件が明記されていること

なお疫学調査については、A systematic approach for evaluating and scoring human data (Chris D. Money, John A. Tomenson, Michael G. Penman, Peter J. Boogaard, R. Jeffrey Lewis, 2013) に基づき信頼性を評価した。

4 国際機関や欧米の評価機関の評価書に引用されている文献の適合性評価

文献ガイドラインでは、国際機関や欧米の評価機関の評価書に引用されている文献(「海外評価引用文献」)については、適合性分類、信頼性評価を経ずしてリスク評価機関に送付することとされている。しかしながら、これらの評価書に引用されていたとしても、それらの評価書の中で個別文献の内容について信頼性の判断等の評価がなされていない場合がある。また、海外では評価対象の範囲であったとしても、日本においては評価されていない分野、生物種の場合もあり、このような文献は海外評価引用文献であっても日本の評価には適合性がないものと考えられる。そのため、EPA、EFSA 及び NTP の評価書 [1]で引用されている(もしくは評価予定とされている)文献ついて、3(1)第 1 段階及び 3(2)第 2 段階(ア)に示した判断根拠を基に、日本の評価の目的に明らかに適合しないと考えられる文献、及び海外評価で適合性なし等と判断されている文献は適合性なしと分類した。ここで適合性なしと分類した文献については、そのコピーの提出は不要と判断した。なお、FAO/WHO 合同残留農薬専門家会議 (JMPR)における評価では公表文献は参照されていなかった。

1) 1. EPA: draft Biological Evaluation, 2021
   2. EPA: Final Bee Risk Assessment to Support the Registration Review of Imidacloprid, 2020
   3. EFSA: Peer review of the pesticide risk assessment for bees for the active substance imidacloprid considering the uses as seed treatments and granules, 2018
   4. EFSA: Conclusion on the peer review of the pesticide risk assessment for bees for the active substance imidacloprid considering all uses other than seed treatments and granules, 2015 / Scientific services to support EFSA systematic reviews: Lot 5 Systematic literature review on the neonicotinoids (namely active substances clothianidin, thiamethoxam and imidacloprid) and the risks to bees, 2015
   5. EFSA: Scientific opinion on the developmental neurotoxicity potential of acetamiprid and imidacloprid, 2014
   6. EPA: Imidacloprid Proposed Interim Registration Review Decision Case Number 7605, 2020
   7. EPA: Imidacloprid: Human Health Draft Risk Assessment for Registration Review, 2017 (公表文献の引用無し)
   8. EPA: Draft Human Health Risk Assessment (DRA) for Registration Review -Response to Comments, 2019
   9. NTP: Research Report on the Scoping Review of Potential Human Health Effects Associated with Exposures to Neonicotinoid Pesticides, 2020

10. EFSA: Draft Assessment Report (DAR), 2005 (Addendum 含む)
11. EFSA: Conclusion regarding the peer review of the pesticide risk assessment of the active substance imidacloprid, 2008 (公表文献の引用無し)

5 検索結果のまとめ

表 5 評価目的との適合性評価 (第 1 段階、第 2 段階)の結果のまとめ

分野	該当する論文数	海外評価引用文献		第 1 段階 2)		第 2 段階 2)	
		適合性なし 1)	左記以外	適合性なし 3)	それ以外(第 2 段階へ)	適合性なし	適合性あり
ヒトに対する毒性	-	169	42	-	168	131	37
農作物及び畜産物への残留	-	25	1	-	109	109	0
生活環境動植物及び家畜に対する毒性	-	605	233	-	738	715	23
環境動態	-	32	12	-	181	153	28
合計	9440	831	288	7125	1196	1108	88

1) 日本の評価において明らかに適合性のないもの
2) 海外評価引用文献を除く
3) 第 1 段階では「適合性なし」の文献の分野分けを行っていない

表 6 適合性評価第 2 段階で適合性ありとされた文献と分類結果

分野	区分 a	区分 b	区分 c	計
ヒトに対する毒性	1	25	11	37
農作物及び畜産物への残留	0	0	0	0
生活環境動植物及び家畜に対する毒性	5	1	17	23
環境動態	12	2	14	28
合計	18	28	42	88

6　適合性評価の第 2 段階で「適合性なし」と判断した論文リストとその理由

別添 2 に示した。

7　適合性評価の第 2 段階で「区分 a」「区分 b」「区分 c」へ分類された論文リストとその理由

分野別に別添 3 に示した。

8　海外評価引用文献について、引用した機関、引用された評価書名、発行年等の情報

適合性なしとそれ以外に分けて、分野別に別添 4 に示した。

公表文献調査報告書
イミダクロプリド

別添 1
検索キーワード及び検索条件

1. 検索条件

表 1 に記載した条件でイミダクロプリドに関する文献を検索した。

表 1　検索条件

一般名	Imidacloprid
IUPAC 名	1-(2-Chloro-5-pyridylmethyl)-2-(N-nitroimino)imidazolidine
CAS 番号	138261-41-3
検索に使用したキーワード、検索の条件	(138261-41-3 OR 105827-78-9 OR "1-(2-CHLORO-5-PYRIDYLMETHYL)-2-(N-NITROIMINO)IMIDAZOLIDINE" OR "1-(6-CHLORO-3-PYRIDYLMETHYL)-N-NITROIMIDAZOLIDIN-2-YLIDENEAMINE" OR "1-[(6-CHLORO-3-PYRIDINYL)METHYL]-4,5-DIHYDRO-N-NITRO-1H-IMIDAZOL-2-AMINE" OR AE-F 106464 OR AEF 106464 OR AEF106464 OR (ADMIRE OR GAUCHO OR MARATHON OR GENESIS OR COMMANDO OR PREMISE OR ALIAS OR MERIT OR PASADA)(W)(RTM OR TM OR R) OR CONFIDOR OR IMIDACLOPRID OR TRIMAX OR PROVADO) NOT P/DT AND any keyword or combination of keywords listed in 表 2

2. 検索対象の影響及び生物種等

L2～L54 に示す影響又は生物種等のいずれかのキーワードが含まれる場合に検索されるように設定した。

表 2　検索対象の影響及び生物種等

L2	QUE SPE=ON ABB=ON PLU=ON ABNORMAL BEHAVIOUR OR ABORTION OR ACCEPTABLE DIETARY INTAKE OR ACCEPTABLE OPERATOR EXPOSURE LEVEL OR ACUTE DERMAL APPLICATION OR ACUTE DERMAL TOXICITY OR ACUTE EFFECT OR ACUTE EXPOSURE OR ACUTE ORAL TOXICITY OR ACUTE REFERENCE DOSE
L3	QUE SPE=ON ABB=ON PLU=ON ACUTE TOXICITY OR ADDITIVE TOXICITY OR ADULT MORTALITY OR ADVERSE EFFECT OR ADVERSE EVENT OR AERIAL EXPOSURE OR AIR BLAST OR AIRBLAST OR ANORMAL BEHAVIOUR OR ASSESSMENT(1W)RISK OR AVERSIVE RESPONSE OR BBA MODEL OR BEHAVIOUR
L4	QUE SPE=ON ABB=ON PLU=ON BEHAVIOURAL ANOMALIES OR BIO MONITORING OR BIOMONITORING OR BIRTH RATE OR BODY ORGANS OR BODY WEIGHT OR BREEDING LOSS OR BYSTANDER OR CARCINOGEN OR CARCINOGENIC OR CARCINOGENICITY OR CHANGE (1W) BODY WEIGHT OR CHEMOSIS OR CHRONIC CONCERN
L5	QUE SPE=ON ABB=ON PLU=ON CHRONIC EFFECT OR CHRONIC STUDY OR CHRONIC TEST OR CHRONIC TOX OR CHRONIC TOXICITY OR CHRONIC TOXICOLOGICAL STUDY OR CLASTOGENICITY OR CLINICAL SIGN OR CLINICAL SYMPTOM OR CONJUNCTIVAE OR CONJUNCTIVAL CHEMOSIS OR CONJUNCTIVAL SAC
L6	QUE SPE=ON ABB=ON PLU=ON CONSTIPATIO OR CONSUMER OR CONTACT TOXICITY OR CORNEA OR CORNEAL OPACITY OR CREATININE OR CROP INSPECTION OR CYTOPLASMIC CHANGES(1W)HEPATOCYTES OR DAMAGE TO EYES OR DEAD

	EMBRYO OR DEAD FETUS OR DEAD PUP OR DEATH OR DECREASE(1W)BODY LENGTH
L7	QUE SPE=ON ABB=ON PLU=ON DERMAL OR DEVELOPMENTAL TOXICITY OR DIARRHEA OR DIE OR DIED OR DIETARY EXPOSURE OR DIETARY INTAKE OR DIETARY TOXICITY OR DIPPING OR DISLODGEABLE FOLIAR RESIDUE OR DISORIENTING OR DISTURBANCE(1W)VIABILITY OR DOG OR DUST DRIFT
L8	QUE SPE=ON ABB=ON PLU=ON EFFECT(1W)(BODY WEIGHT OR FOOD CONSUMPTION OR BODY ORGAN) OR EMBRYO OR EMBRYOPATHY OR EMBRYOTOX OR ENDOCRINE(W)DISRUPT? OR ENDOCRINE MODULATION OR ENGINEERING CONTROL OR EPIDEMIOLOGICAL OR EPIDEMIOLOGY OR ERYTHEMA
L9	QUE SPE=ON ABB=ON PLU=ON ESCHAR OR EUROPOEM OR EXPOSE OR EXPOSURE OR EYE IRRITATION OR FECUNDITY OR FEEDING STUDY OR FERTILITY RATE OR FETOTOX OR FETOTOXICOLOGICAL OR FETOTOXICOLOG Y OR FOETAL CROWN-RUMP LENGTH OR FOETAL DEVELOPMENT OR FOGGING OR FOLIAR DEPOSITION
L10	QUE SPE=ON ABB=ON PLU=ON FOLIAR DISLODGEABLE RESIDUE OR GAIN(1W)BODY WEIGHT OR GASTROINTESTINAL OR GENOTOX OR GENOTOXIC OR GENOTOXICITY OR GENOTOXICOLOGICAL OR GESTATION OR GROUND BOOM OR GROUNDBOOM OR GUINEA PIG OR HAIR LOSS OR HAND TO MOUTH OR HANDHELD OR HAND-HELD
L11	QUE SPE=ON ABB=ON PLU=ON HAZARD OR HEALTH RISK OR HEPATOTOXIN OR HERSHBERGER ASSAY OR HUMAN EXPOSURE OR HUMAN HEALTH OR HUMAN MONITORING OR IMMUNOTOXICITY OR IMPLANTATION LOSS OR INCREASE (1W) LIVER WEIGHT OR INDURATION (2W) SKIN OR INFERTILITY
L12	QUE SPE=ON ABB=ON PLU=ON INHALATION OR INHALATORY ABSORPTION OR INHALATORY EXPOSURE OR INHALATORY RISK OR INTOXICATION OR INTRAPERITONEAL OR INTRAVENOUS OR INTRAVENOUSLY OR IRRITANT OR IRRITATING (1W)SKIN OR IRRITATION OR IRRITATION (2W)(IRIS OR SKIN)
L13	QUE SPE=ON ABB=ON PLU=ON KNAPSACK OR LABORED BREATHING OR LACERATION (2W) SKIN OR LACTATION OR LC50 OR LD50 OR LIGHT-COLO RED FECES OR LITTER SIZE OR LITTER WEIGHT OR LIVER OR LIVING PUPS OR LOCAL LYMPH NODE OR LONG-TERM EXPOSURE OR LONGTERM STUDY OR LONG-TERM STUDY
L14	QUE SPE=ON ABB=ON PLU=ON LONGTERM TOXICOLOGICAL OR LONG-TERM TOXICOLOGICAL OR LOSS (1W)(BODY WEIGHT OR HAIR) OR MALFORMATION OR MAMMAL OR MAMMALIAN OR MARGIN (1W) SAFETY OR MATERNAL TOXICITY OR MATING BEHAVIOUR OR MEDICAL DATA OR METABOLIC PATH OR METABOLIC PATHWAY
L15	QUE SPE=ON ABB=ON PLU=ON MONKEY OR MORTALITY OR MOUSE OR MRL EXCEEDANCE OR MRL VIOLATION OR MULTIGENERATION OR MUTAGEN OR MUTAGENIC OR MUTAGENICITY OR NECROPSY OR NEUROTOXIC OR NEUROTOXICITY OR NO OBSERVED ADVERSE EFFECT LEVEL OR NO OBSERVED EFFECT LEVEL
L16	QUE SPE=ON ABB=ON PLU=ON NOAEL SUBCHRONIC DOG OR NON DIETARY EXPOSURE OR NON-DIETARY EXPOSURE OR NO-OBSERVED ADVERSE EFFECT LEVEL OR NURSING OR OBJECT TO MOUTH OR OCCUPATIONAL EXPOSURE OR OEDEMA OR OFFSPRING OR OPACITY OR OPERATOR OR ORAL ABSORPTION OR ORAL TOXICITY
L17	QUE SPE=ON ABB=ON PLU=ON ORALLY OR OVULATION OR PARENTERAL OR PARTURITION OR PASSIVE DOSIMETRY OR PATHOLOGICAL OR PATHOLOGY OR PATIENT OR PEELING (1W) SKIN OR PENETRATION FACTOR OR PERCUTANEOUS OR PERSONAL PROTECTIVE EQUIPMENT OR PHOTOTOXICITY OR PILOERECTION
L18	QUE SPE=ON ABB=ON PLU=ON PLACENTAL WEIGHT OR POISON OR POISONING OR POST-MORTEM EXAMINATIONS OR POSTNATAL OR POST-NATAL OR PREGNANCY OR PREGNANT OR PREMATURE BIRTH OR PRENATAL TOX OR PRENATAL TOXICOLOGY OR PRIMATE OR PROTECTIVE CLOTHING OR PROTECTIVE GARMENT
L19	QUE SPE=ON ABB=ON PLU=ON PROTECTIVE GLOVE OR PUBLIC HEALTH OR RABBIT OR RAT OR RE ENTRY OR REDDENING (1W) TREATMENT AREA OR REDNESS OR REDUCED BODY WEIGHT OR REDUCED BODY WEIGHT GAIN OR REENTRY OR RE-ENTRY OR REFERENCE DOSE OR RELEVANT (2W) REPRODUCTIVE SUCCESS

L20	QUE SPE=ON ABB=ON PLU=ON REPRODUCTION OR REPRODUCTIVE OR REPROTOX OR RESIDENT OR RESIDENTIAL EXPOSURE OR RESIDUE IN OR RESPIRATORY EXPOSURE OR RESPIRATORY PROTECTIVE EQUIPMENT OR RISK ASSESSMENT OR RISK (2W) (CONSUMER OR OPERATOR) OR SEXUAL
L21	QUE SPE=ON ABB=ON PLU=ON RISK (1W) SERIOUS DAMAGE (1W) EYES OR SAFE OR SAFETY OR SAFETY ASSESSMENT OR SAFETY PRECAUTION OR SECONDARY EFFECT OR SECONDARY POISONING OR SEEDTROPEX OR SENSITISATION BY SKIN CONTACT OR SENSITISER OR SENSITISING TESTS OR SENSITIZER
L22	QUE SPE=ON ABB=ON PLU=ON SHORT LONG TERM EXPOSURE OR SHORT-TERM EXPOSURE OR SHORT-TERM TOXICITY OR SHORT-TERM TOXICOLOGICAL OR SIDE EFFECT OR SIGNS (1W)(AGGRESSION OR TOXICITY) OR SKIN IRRITANT OR SKIN IRRITATION OR SKIN SENSITISATION OR SKIN SENSITISING
L23	QUE SPE=ON ABB=ON PLU=ON SKIN SENSITIZATION OR SKIN SENSITIZING OR SLIGHTLY HARMFUL OR SPASTIC GAIT OR SPERMATOGENESIS OR SPLEEN OR SPRAY DRIFT OR STOMACH LESIONS OR STUNTED FETUS OR SUBACUTE OR SUB-ACUTE OR SUBCHRONIC OR SUB-CHRONIC OR SUBLETHAL OR SUB-LETHAL
L24	QUE SPE=ON ABB=ON PLU=ON SUBSTANCE-RELATED EFFECT OR SURVIVAL OR SYMPTOMS (1W) TOXICITY OR SYSTEMIC EXPOSURE OR SYSTEMIC INTOLERANCE REACTIONS OR TERATOGEN OR TERATOGENIC OR TERATOGENICITY OR TERATOLOGY OR TESTICULAR DEVELOPMENT
L25	QUE SPE=ON ABB=ON PLU=ON ACTIVE INGREDIENTS (1W) SAFE OR (COMPOUND OR COMPOSITION OR FUNGICIDE OR INSECTICIDE OR PESTICIDE) (1W)SAFE OR THEORETICAL TOXICITY OR TOPICAL OR TOTAL DIET STUDY OR TOX OR TOXIC OR TOXICITY OR TOXICOGENOMIC OR TOXICOKINETICS OR TOXICOL
L26	QUE SPE=ON ABB=ON PLU=ON TOXICOLOGICAL OR TOXICOLOGY OR TRACTOR MOUNTED OR TRANSDERMAL OR TRANSFER COEFFICIENT OR TRANSFERABLE RESIDUES OR TREATMENT RELATED EFFECTS OR TUMORIGEN OR TUNNEL TEST OR TWO-GENERATION OR UNACCEPTABLE EFFECTS OR UTEROTROPHIC ASSAY
L27	QUE SPE=ON ABB=ON PLU=ON VERTEBRATE OR VIABILITY (1W) EMBRYO OR WEANING OR WEIGHT ALTERATION OR WEIGHTS OR WHOLE BODY DOSIMETER OR WHOLE BODY DOSIMETRY OR WORKER
L28	QUE SPE=ON ABB=ON PLU=ON MONITORING OR QUECHERS OR TOLERANCE OR CHRONIC EXPOSURE OR METABOLITE OR METABOLISM OR CONSUMER EXPOSURE OR EXPOSURE (1W) CONSUMERS OR DIETARY RISK OR DIETARY RISK ASSESSMENT OR CONSUMPTION OR RESIDUE OR PROCESSING OR PROCESSED COMMODITY
L29	QUE SPE=ON ABB=ON PLU=ON TRANSFER FACTOR OR PROCESSING FACTOR OR STORAGE OR ENFORCEMENT METHOD
L30	QUE SPE=ON ABB=ON PLU=ON ADI OR AOEL OR ARFD OR DFR OR I.P. OR I.V. OR LLNA OR NOEL OR P.O. OR PHED OR PPE OR RPE OR S.C. OR UK POEM OR ILV
L31	QUE SPE=ON ABB=ON PLU=ON ACUTETER OR ALGAL GROWTH OR AMPHIPODA OR APIS OR AQUATIC CRUSTACEANS OR AQUATIC GASTROPOD MOLLUSCS OR AQUATIC INSECTS OR AQUATIC INVERTEBRATES OR AQUATIC ORGANISM OR AQUATIC PEC OR AQUATIC PLANT OR AQUATIC POPULATION OR ASELLUS AQUATICUS
L32	QUE SPE=ON ABB=ON PLU=ON BEE OR BIOACCUMULATION OR BIOCONCENTRATE RESIDUE OR BIOCONCENTRATED OR BIOCONCENTRATION OR BIRD OR BLACKBIRD OR BLUEGILL SUNFISH OR BOBWHITE OR CAGE TEST OR CAGE TRIAL OR COMMON SHREW OR COMMON VOLE OR CONCENTRATION(1W)NATURAL WATER BODIES
L33	QUE SPE=ON ABB=ON PLU=ON CONTAMINATED FEED OR CONTAMINATED PREY OR CONTAMINATED WATER OR CRUSTACEA OR DAILY RESIDUE INTAKE OR DAPHNIA OR EARLY LIFE STAGE TEST OR EARTHWORM OR ECOBIOLOGY OR ECOTOX OR ECOTOXICOLOGICAL OR COTOXICOLOGY OR EFFECTS(1W)ARTHROPOD
L34	QUE SPE=ON ABB=ON PLU=ON EFFECTS (1W)(BIRDS OR SOIL MICRO-ORGANISM) OR EGG PRODUCTION OR EISENIA FETIDA OR ESTIMATED THEORETICAL EXPOSURE OR ESTUARINE ORGANISM OR EXPOSURE OR FATHEAD MINNOW OR FAUNA OR FIELD RESIDUE STUDY OR FISH ACUTE OR FISH-EATER

L35	QUE SPE=ON ABB=ON PLU=ON FISH-EATING BIRD OR FLORA OR FOLIAGE DWELLING ARTHROPODS OR FOLIAGE DWELLING PREDATORS OR FOOD CHICKS OR GAMMARUS OR GASTROPOD MOLLUSC OR GASTROPODMOLLUSC OR GREEN ALGAE OR GREENFINCH OR GROUND DWELLING ARTHROPODS OR GROUND DWELLING PREDATORS
L36	QUE SPE=ON ABB=ON PLU=ON HALF-LIFE(1W)FLOWING WATERS OR HARE OR HATCHING SUCCESS OR HATCHLING HEALTH OR HAZARD QUOTIENT OR HERBIVORE OR HERBIVOROUS BIRDS OR HERBIVOROUS MAMMALS OR HONEYBEE OR INITIAL RESIDUES OR INSECTIVORE OR INSECTIVOROUS OR INTAKE RATE
L37	QUE SPE=ON ABB=ON PLU=ON ISOPODA OR LACTATION INDEX OR LARVAL TOXICITY OR LEMNA OR LIFE CYCLE TEST OR LONG-TERM TER OR LOWEST LETHAL CONCENTRATION OR LOWEST LETHAL DOSE OR LOWEST OBSERVED EFFECT CONCENTRATION OR MACROSCOPIC FINDINGS OR MARINE ORGANISM OR MESOCOSM
L38	QUE SPE=ON ABB=ON PLU=ON MICROBIAL ACTIVITY OR MICROCOSM OR NEGATIVE INFLUENCE (2W)PLANT SPECIES OR NO OBSERVED EFFECT CONCENTRATION OR NON TARGET OR NON TARGET MACRO ORGANISM OR NUMBER (1W)(SURVIVING ANIMALS OR SURVIVING WORMS)
L39	QUE SPE=ON ABB=ON PLU=ON OIL MICRO- OR MACRO-ORGANISMS OR ONCORHYNCHUS MYKISS OR PARASITOIDS OR PARASOTOIDS OR PHYTOTOXIC OR PHYTOTOXICITY OR PIMEPHALES PROMELAS OR PREDICTED ENVIRONME NTAL CONCENTRATION OR PSEUDOKIRCHNERIELLA SUBCAPITATA
L40	QUE SPE=ON ABB=ON PLU=ON QUAIL OR RAINBOW TROUT OR REPRODUCTION (1W) WATERFLEAS OR RESIDUE DATA(1W)FISH OR RESIDUE(1W)FEED OR RESIDUE (2W)PESTICIDE OR RHOPALOSIPHI OR RISK(1W)OFF-CROP AREAS OR RISK REDUCING MEASURES OR RISK (1W) BIRDS
L41	QUE SPE=ON ABB=ON PLU=ON SEDIMENT DWELLER OR SEDIMENT DWELLERS OR SEEDEATER OR SELEN. CAPRICORNUTUM OR SELENASTRUM CAPRICORNUTUM OR SENSITIVE SPECIES OR SHREW OR SMALL SEEDEATER OR SOIL MICRO (1W) MACROORGANISM OR SOIL MICROORGANISM OR SOIL MICRO-ORGANISMS
L42	QUE SPE=ON ABB=ON PLU=ON SOIL NON-TARGET MACRO-ORGANISMS OR SOIL NON-TARGET MICRO-ORGANISMS OR TER VALUE OR TERRESTRIAL ECOTOXICOLOGY OR TESTED WITH MUCH HIGHER RATES (3W) REGISTERED OR THRESHOLD EFFECT CONCENTRATION OR TOXICITY (2W)(FISH OR WATERFLEAS)
L43	QUE SPE=ON ABB=ON PLU=ON VOLE OR WASP OR WATERFLEA OR WORST CASE EXPOSURE SCENARIO OR WORST-CASE TIME-WEIGHTED AVERAGE
L44	QUE SPE=ON ABB=ON PLU=ON FUNGICIDE RESIDUE OR FUNGICIDES(1W) FRUITS (1W) VEGETABLES OR GROUND WATER OR GROUNDWATER OR HALF-LIFE OR HARVEST TIME RESIDUE OR HERBICIDE RESIDUE OR HERBICIDES(1W)FRUITS (1W) VEGETABLES OR IMPACT(1W) WATER TREATMENT PROCEDURE
L45	QUE SPE=ON ABB=ON PLU=ON INSECTICIDE RESIDUE OR INSECTICIDES (1W)FRUITS (1W) VEGETABLES OR IPROVALICARB RESIDUE OR LACK(1W)LEACHING OR LANDSCAPE-LEVEL ERA OR LEACHING OR LENTIC WATER OR LOAMY SAND OR (MAXIMUM OR MAXIMAL)(W)RESIDUE SET OR MAXIMUM DAILY RESIDUE
L46	QUE SPE=ON ABB=ON PLU=ON MAXIMUM RESIDUE OR METABOLISM OR METABOLITE (2W)(ANIMAL OR FOOD OR PLANT OR FRUIT OR VEGETABLE) OR MINIMUM RESIDUE TOLERANCE OR MULTIRESIDUE OR MULTI-RESIDUE OR NON-AGED (W) AGED LEACHING OR PELMO OR PERCENT(1W)APPLIED RADIOACTIVITY
L47	QUE SPE=ON ABB=ON PLU=ON PERCENTAGE (2W) RADIOACTIVITY OR PERSISTENCE (2W) RESIDUE OR PESTICIDE RESIDUE OR PESTICIDES(1W) FRUITS (1W) VEGETABLES OR PHOTODEGRADATION(1W)SOIL OR PHOTOLYTICAL DEGRADATION OR PLANT METABOLITE OR POLLUTE OR POLLUTED OR POLLUTING
L48	QUE SPE=ON ABB=ON PLU=ON POLLUTION OR POPULATION MODELLING OR PREDICTED ENVIRONMENTAL CONCENTRATION OR PROBABILISTIC OR QUANTIFY(1W)RESIDUE OR RAT METABOLITE OR READY BIODEGRADABILITY OR RESIDUAL(W)(FUNGICIDE OR HERBICIDE OR INSECTICIDE OR PESTICIDE)

L49	QUE SPE=ON ABB=ON PLU=ON RESIDUE AMOUNT OR RESIDUE ANAL. OR RESIDUE ANALYS!S OR RESIDUE ANALYTICAL DATA OR RESIDUE ANALYTICAL METHOD OR RESIDUE BEHAVIOUR OR RESIDUE CONTENT OR RESIDUE DATA OR RESIDUE DEFINITION OR RESIDUE DETECTION OR RESIDUE(1W)FOOD OR RESIDUE LEVEL
L50	QUE SPE=ON ABB=ON PLU=ON RESIDUE LIMIT OR RESIDUE MONITORING OR RESIDUE (2W)(FUNGICIDE OR HERBICIDE OR INSECTICIDE OR PESTICIDE OR IPROVALICARB) OR RESIDUE-TOLERANCE OR RESIDUE PERSISTENCE OR RESIDUE POINT(1W)VIEW OR RESIDUE TEST
L51	QUE SPE=ON ABB=ON PLU=ON RESIDUE TRIALS OR RESIDUE VALUES OR RESIDUE ABOVE (1W)MRL OR RESIDUE (1W) CONTAMINANT OR RESIDUE (1W)(CROPS OR FOOD OR PLANTS OR TREATED PRODUCTS) OR INCURRED RESIDUE
L52	QUE SPE=ON ABB=ON PLU=ON SEDIMENT SYSTEM OR SEWAGE OR SIMULATION MODEL PELMO OR SLOW MOVING WATER BODIES OR SLOWLY FLOWING WATER BODIES OR SOIL ACCUMULATION TESTING OR SOIL DEGRADATION OR SOIL DISSIPATION OR SOIL METABOLISM STUDY
L53	QUE SPE=ON ABB=ON PLU=ON SOIL PHOTOLYSIS OR SOIL SCENARIO OR SOIL(W)FOLIAGE DWELLERS OR SPRAY DRIFT RATE OR STATIC WATER BODY OR SURFACE WATER OR TERRESTRIAL AQUATIC FIELD DISSIPATION OR TERRESTRIAL FIELD DISSIPATION OR TERRESTRIAL SEDIMENT FIELD DISSIPATION
L54	QUE SPE=ON ABB=ON PLU=ON TOXIC RESIDUE OR WATER BODY OR WATER SEDIMENT STUDY OR WATER SEDIMENT SYSTEM OR WATER TREATMENT OR WORST CASE ASSUMPTION OR WORST CASE CONDITION OR WORST CASE SCENARIO OR WORST CASE SITUATION OR WORST CASE USE PATTERNS OR WORST-CASE APPROACH

公表文献調査報告書

イミダクロプリド

別添 2

適合性評価の第 2 段階で「適合性なし」と判断した論文リストとその理由

No.[a]	著者	出版年	論文表題	掲載誌名、号、ページ等	判断理由[b]
1	Georgieva, S.; Popov, B.	2007	Study on genotoxic effect of pesticide imidacloprid in rabbit peripheral blood lymphocytes in vitro. II. Modification of the effect of imidacloprid by vitamins (C and E).	Zhivotnovud. Nauki, Volume 44, Issue 2, Page 50-54, Publication Year 2007	⑲
2	Dasgupta, Susmita; Meisner, Craig; Wheeler, David; Xuyen, Khuc; Lam, Nhan Thi.	2007	Pesticide poisoning of farm workers-implications of blood test results from Vietnam.	Int. J. Hyg. Environ. Health, Volume 210, Issue 2, Page 121-132, Publication Year 2007	農薬の毒性の強さと中毒事例との関連性を調査した文献で、イミダクロプリドは、調査した農家で使われた農薬のひとつとして記載されているのみでリスク評価に利用可能なデータはないことから、適合性なしと判断した。
3	Broznic, Dalibor; Marinic, Jelena; Tota, Marin; Juresic, Gordana Canadi; Milin, Cedomila.	2008	Kinetic evaluation of imidacloprid degradation of mice organs treated with olive oil polyphenols extract.	Croat. Chem. Acta, Volume 81, Issue 1, Page 203-209, Publication Year 2008	⑯c (腹腔内投与) 雌雄の情報記述なし
4	Li, Huawen; Lu, Dan; Wu, Jun; Ma, Xinqun; Yang, Xiuhong; Chen, Jianfeng; Xiong, Zhijun.	2008	Toxicity of imidacloprid crude drug.	Shiyong Yufang Yixue, Volume 15, Issue 3, Page 901-902, Publication Year 2008	⑲
5	Calvert, Geoffrey M.; Karnik, Jennifer	2008	Acute pesticide poisoning among agricultural workers in the United States, 1998-2005.	American Journal of Industrial Medicine, (December 2008) Vol. 51, No. 12, pp. 883-898. Refs: 39 ISSN: 0271-3586; E-ISSN: 1097-0274 CODEN: AJIMD8	イミダクロプリドは15農薬の有効成分のひとつとして、農業産業における急性農薬中毒の重症度分類別表に記載されているのみで、詳細なデータが不足しており、リスク評価への利用という観点では適合性なしと考える。
6	Vale, J.A.	2008	Poisoning Due to Neonicotinoid Insecticides	Clinical Toxicology [Clin. Toxicol.], (20080600) vol. 46, no. 5, p. 404. ISSN: 1556-3650.	⑧リスク評価をするうえで十分なデータや情報を含まない要旨のみの文献

7	Khan, Dilshad A.; Bhatti, Mahwish M.; Khan, Farooq A.; Naqvi, Syed T.; Karam, A.	2008	Adverse effects of pesticides residues on biochemical markers in Pakistani tobacco farmers.	Int. J. Clin. Exp. Med., Volume 1, Issue 3, Page 274-282, Publication Year 2008	パキスタンにおけるタバコ農家55人と54人の成人男性の血漿中における生化学検査及び6種の農薬(イミダクロプリド, メソミル, チオジカルブ, シペルメトリン, メタミドホス, エンドスルファン)のHPLC分析。農家の血漿からイミダクロプリドが検出されているが、暴露量が不明なため、体内動態の評価に利用できない。血漿中の各分析対象物質の濃度と血漿生化学検査値(ブチルコリンエステラーゼ, 肝機能, 腎機能、電解質)との間で正の相関関係が認められ、イミダクロプリド血漿中濃度とASAT、ALAT、リン濃度との相関係数は、それぞれ0.39、0.28、0.43であり、ASAT、ALAT、リン濃度についてイミダクロプリド検出農家と対照者との間に有意差が認められた。しかし、他の農薬成分に由来する血液生化学検査項目への影響を交絡因子として考慮していないため、イミダクロプリドとしての評価は困難と考える。分析に関しては、HPLCで分析とあるのみで、分析法の詳細が不明であり、分析結果の妥当性が示せない。
8	Shi, Xueyan; Dick, Ryan A.; Ford, Kevin A.; Casida, John E.	2009	Enzymes and inhibitors in neonicotinoid insecticide metabolism.	J. Agric. Food Chem., Volume 57, Issue 11, Page 4861-4866, Publication Year 2009	⑬
9	Mohamed, Fahim; Dawson, Andrew H.; Roberts, Darren.	2009	Factors influencing variability in clinical outcomes from imidacloprid self-poisoning.	Clin. Toxicol., Volume 47, Issue 8, Page 836-837, Publication Year 2009	Letter to edditor　査読された文献ではない。
10	Najafi, Golamreza; Shahmohamadloo, Simineh; Feyzi, Sajad	2010	The effect of chronic exposure with imidacloprid insecticide on fertility in mature male rats .	International Journal of Fertility and Sterility, (Apr-Jun 2010) Vol. 4, No. 1, pp. 9-16. Refs: 35 ISSN: 2008-076X	非GLP/ 準拠した試験ガイドラインの記載なし。 被験物質の純度及び供給源の情報なし。 結果の評価に信頼性がもてない（投与10日後から10日毎の検査値をひとつの溶媒対照群の検査項目値で比べている。）
11	So, B. H. [Reprint Author]; Kim, H. M.	2010	Two Cases of Severe Neonicotinoid Intoxication .	Clinical Toxicology, (JUL 2010) Vol. 48, No. 6, pp. 611. Meeting Info.: Annual Meeting of North American Congress of Clinical Toxicology. Denver, CO, USA. October 07 -12, 2010. Amer Acad Clin Toxicol (AACT). ISSN: 1556-3650. E-ISSN: 1556-9519.	年次総会Abstract;症例報告；今後の治療の際参考になる可能性がある。一方、服用前の病歴、薬歴などの情報もなく、リスク評価の観点からは適合性なしと考える.

12	Dawson, Andrew H.; Eddleston, Michael; Senarathna, Lalith; Mohamed, Fahim; Gawarammana, Indika; Bowe, Steven J.; Manuweera, Gamini; Buckley, Nicholas A.	2010	Acute human lethal toxicity of Agricultural pesticides: a prospective cohort study.	PLoS Med., Volume 7, Issue 10, Page No pp. given, Publication Year 2010	過去約7年間、スリランカにおいて、自己中毒として受診した12歳以上の患者を対象に調べたものであり、イミダクロプリドに起因する中毒者数70例（平均10例/年）、そのうち死亡例は1例との情報がある。詳細な情報が不足しており、リスク評価への利用という観点では適合性なしと考える。
13	Chwaluk, Pawel (Correspondence)	2010	[[Acute inhalation imidacloprid poisoning --a case report].]. Ostre wziewne zatrucie imidachloprydem--opis przypadku..	Przeglad lekarski, (2010) Vol. 67, No. 8, pp. 619-620. ISSN: 0033-2240	⑲日本語、英語以外の文献;ポーランド語
14	Harris, Shelley A.; Villeneuve, Paul J.; Crawley, Charlene D.; Mays, James E.; Yeary, Roger A.; Hurto, Kirk A.; Meeker, John D.	2010	National study of exposure to pesticides among professional applicators: An investigation based on urinary biomarkers.	J. Agric. Food Chem., Volume 58, Issue 18, Page 10253-10261, Publication Year 2010	米国6都市で雇用されている芝生への農薬散布者(135名)から春、夏、秋にそれぞれ採取した尿試料(1028サンプル)の多成分分析(イミダクロプリド関連では、イミダクロプリド及び6-CNAを分析)。イミダクロプリド及び6-CNAともに尿からLOQ以上検出され、その検出頻度は報告されているが、尿中濃度は報告されていない。また、6-CNAはアセタミプリドやチアクロプリドに共通するため、イミダクロプリド特異的ではない。農薬散布者について、散布期間中の12時間又は24時間の畜尿を分析しているが、散布前の濃度は分析しておらず、日常での尿中レベルが不明。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、暴露量が不明であり評価に利用できない。
15	Taira, Kumiko; Aoyama, Yoshiko; Kawakami, Tomonori; Kamata, Motoyuki; Aoi, Toru.	2011	Detection of chloropyridiny neonicotinoid insecticide metabolite 6-chloronicotinic acid in the urine: six cases with subacute nicotinic symptoms.	Jpn. J. Clin. Toxicol., Volume 24, Issue 3, Page 222-230, Publication Year 2011	⑪
16	Mohany, Mohamed; Badr, Gamal (Reprint) Mohany, Mohamed; Refaat, Inas; El-Feki, Mostafa Badr, Gamal (Reprint)	2011	Immunological and histological effects of exposure to imidacloprid insecticide in male albino rats	AFRICAN JOURNAL OF PHARMACY AND PHARMACOLOGY, (NOV 2011) Vol. 5, No. 18, pp. 2106-2114. ISSN: 1996-0816.	⑭
17	Kimura-Kuroda, Junko (Correspondence); Kawano, Hitoshi	2011	Nicotine-like effects of the new pesticide, neonicotinoids on rat cerebellar neurons.	Neuroscience Research, (September 2011) Vol. 71, Supp. SUPPL. 1, pp. e400. Abstract Number: P4-s06. Meeting Info: 34th Annual Meeting of the Japan Neuroscience Society, Neuroscience 2011. Yokohama, Japan. 14 Sep 2011-17 Sep 2011 ISSN: 0168-0102	⑧

18	Harish, J.; Girish, N.; Nisarga, R.	2011	Imidacloprid poisoning resulting in death .	Pediatric OnCall (2011), Volume 8, Number 12, 79 p., 7 refs. ISSN: 0973-0966 Published by: Pediatric OnCall, Levioza, Mumbai URL (Availability): http://www.pediatriconcall.com/fordoctor/viewersChoice/poisoning.asp	Letter to Editor;査読なし
19	Jensen, Hanne Klith; Konradsen, Flemming	2011	Pesticide use and self-reported symptoms of acute pesticide poisoning among aquatic farmers in phnom penh, cambodia.	Journal of Toxicology, (2011) Vol. 2011. arn. 639814. Refs: 31 ISSN: 1687-8191; E-ISSN: 1687-8205	カンボジアのプノンペンにあるBoeung Cheung Ek（BCE）湖の農薬散布者89人が使用しているとして農薬の一つとして、イミダクロプリドがリストされているのみであることから、リスク評価に利用可能な文献とは判断しなかった。
20	Li, Chen-Xi; Li, Min; Feng, Xiao-Lian; Cao, Pei; Wang, Xiao-Dan; Liu, Shan; Xu, Hai-Bin.	2012	Study on dermal absorption of Imidacloprid in vitro.	Zhonghua Laodong Weisheng Zhiyebing Zazhi, Volume 30, Issue 8, Page 604-607, Publication Year 2012	⑲
21	Fan, Yinjun; Shi, Xueyan; Gao, Xiwu.	2012	Research progresses on metabolism of neonicotinoids imidacloprid and thiamethoxam.	Nongyaoxue Xuebao, Volume 14, Issue 6, Page 587-596, Publication Year 2012	⑲
22	Soujanya, S.; Lakshman, M.; Anand Kumar, A.; Gopala Reddy, A.	2012	Histopathological and ultrastructural changes induced by imidacloprid in brain and protective role of vitamin C in rats.	J. Chem. Pharm. Res., Volume 4, Issue 9, Page 4307-4318, Publication Year 2012	⑯e 被験物質の純度が記載されていない。
23	Lee, Won Jin; Cha, Eun Shil; Park, Jinwoo; Ko, Yousun; Kim, Hyun Joong; Kim, Jaeyoung	2012	Incidence of acute occupational pesticide poisoning among male farmers in South Korea	American Journal of Industrial Medicine (2012), 55(9), 799-807	⑪
24	Padilla, S.; Corum, D.; Padnos, B.; Hunter, D. L.; Beam, A.; Houck, K. A.; Sipes, N.; Kleinstreuer, N.; Knudsen, T.; Dix, D. J.; Reif, D. M.	2012	Zebrafish developmental screening of the ToxCast Phase I chemical library.	Reprod. Toxicol., Volume 33, Issue 2, Page 174-187, Publication Year 2012	⑤
25	El-Zaemey, Sonia; Fritschi, Lin; Heyworth, Jane	2013	Occupational pesticide exposure among Yemeni women	Environmental Research (2013), 122, 45-51	⑪
26	Kavvalakis, Mathaios P. (Reprint); Tzatzarakis, Manolis N.; Polychronis, Stivaktakis; Barbounis, Manolis; Goumenou, Marina; Alegakis, Athanasios; Renieri, Elisavet; Vynias, Dionisis; Tsatsakis, Aristidis M.	2013	Understanding the imidacloprid metabolism in long - term exposure through a comparative study of imidacloprid and its major metabolite levels in the urine and hair of intentionally exposed rabbits	TOXICOLOGY LETTERS, (28 AUG 2013) Vol. 221, Supp. [S], pp. S203-S203. ISSN: 0378-4274.	⑧
27	Kavvalakis, Matthaios P.; Tzatzarakis, Manolis N.; Theodoropoulou, Eleftheria P.; Barbounis, Emmanouil G.; Tsakalof, Andreas K.; Tsatsakis, Aristidis M.	2013	Development and application of LC-APCI-MS method for biomonitoring of animal and human exposure to imidacloprid	Chemosphere (2013), 93(10), 2612-2620	⑤
28	Singh, Sangya; Pandey, Akancha; Sharma, Bechan; Lawrence, Kapil; Pandit, Swati	2013	Imidacloprid induced osmotic fragility in erythrocytes of rats: protective role of Vit.C and tea	IOSR Journal of Environmental Science, Toxicology and Food Technology (2013), 5(5), 103-105, 3 pp.	被験物質の純度及び供給源の情報なし。 統計学的検査が実施されていない。標準偏差なども示されていない。 研究目的 イミダクロプリドの用量は１濃度
29	Soujanya, S. (Correspondence)	2013	Ultrastructural changes induced by imidacloprid in male albino rats .	International Journal of Pharma and Bio Sciences, (2013) Vol. 4, No. 3, pp. B1191-B1198. Refs: 10 E-ISSN: 0975-6299	⑯e 被験物質の純度が記載されていない。

30	Soujanya, S.; Lakshman, M.; Gopala Reddy, A.	2013	Protective role of vitamin C against the histopathological and ultrastructural changes induced by imidacloprid in testis of male rats.	Int. J. Life Sci. Biotechnol. Pharma Res., Volume 2, Issue 1, Page 92-97, Publication Year 2013	⑯e 被験物質の純度が記載されていない。
31	Basilicata, P.; Simonelli, A.; Silvestre, A.; Lamberti, M.; Pedata, P.	2013	Evaluation by environmental monitoring of pesticide absorption in farm workers of 18 Italian tomato cultivations.	International Journal of Immunopathology and Pharmacology, (2013) Vol. 26, No. 2, pp. 517-523. Refs: 14 ISSN: 0394-6320 CODEN: IJIPE4	製剤情報、処理方法等の詳細不明
32	Lin, Pei-Chen; Lin, Hung-Jung; Liao, Yu-Ying; Guo, How-Ran; Chen, Kuo-Tai [Reprint Author]	2013	Acute Poisoning with Neonicotinoid Insecticides: A Case Report and Literature Review.	Basic and Clinical Pharmacology and Toxicology, (APR 2013) Vol. 112, No. 4, pp. 282-286. http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1742-7843. ISSN: 1742-7835. E-ISSN: 1742-7843.	1例の症例報告；9.6%含む製剤を40ｍL服用,精神科診療を20年間受けている症例。今後の治療の際には参考になる可能性がある。薬歴などの情報は記載されていない。リスク評価への利用の観点では適合性なしと考える。 またネオニコチノイド中毒に関する文献検索は行っているが、限られた情報のみしか記載されていない。
33	Taira, Kumiko; Fujioka, Kazutoshi; Aoyama, Yoshiko	2013	Qualitative profiling and quantification of neonicotinoid metabolites in human urine by liquid chromatography coupled with mass spectrometry	PLoS One (2013), 8(11), e80332	ネオニコチノイド系農薬への亜急性暴露が疑われる3人の患者の尿について、各種ネオニコチノイドの有効成分と既知代謝物をTOFMSを用いて定性的に質量分析。イミダクロプリドについては有効成分と6種の代謝物がTOFMSで同定されたとしているが、質量分析の精度が確認できない(塩素の同位体比の検証を含む)。また、一部の代謝物について標準物質を用いて定量しているが、イミダクロプリド及びその代謝物については定量分析されていない。
34	Kumar, Ajay; Tomar, Monika; Kumar Kataria, Sudhir	2014	Effect of sub - lethal doses of imidacloprid on histological and biochemical parameters in female albino mice	IOSR Journal of Environmental Science, Toxicology and Food Technology (2014), 8(1), 9-15	非GLP/準拠した試験ガイドラインの記載がない。 試験方法情報が不十分（投与後の観察期間の記載なし, 被験物質の純度及び供給源の情報なし，添加に用いた媒体が不明確など） 本文献で実施した試験結果が不十分（動物の一般症状など他の文献での情報を参照、病理組織学的検査の頻度の情報がない。）

35	Preeti; Vinod Kumar; Sikka, A. K.; Punia, J. S.; Kumar, V.	2014	Hematological and morphometric studies of imidacloprid through oral administration in Swiss albino mice .	Haryana Veterinarian (2014) , Volume 53, Number 2, pp. 144-147, 9 refs. ISSN: 0033-4359 Published by: College of Veterinary Sciences, Haryana Agricultural University, Hisar	非GLP/準拠した試験ガイドラインの記載がない。 28日間雄マウスに反復経口投与し、血液学的検査及び形態計測検査を実施しているが、イミダクロプリドの影響は認められていないと考える。
36	Agha, S. Z. Al.; Yassin, M. M.; Esleem, N. E.	2014	Hepatotoxicity of imidacloprid in male rabbit : physiological and histological aspects.	Research Journal of Biological Sciences (2014) , Volume 9, Number 1, pp. 24-33, 49 refs. ISSN: 1815-8846 Published by: Medwell Online, Faisalabad	⑯e 被験物質の純度や供給源の情報が記載されていない。
37	Koureas, Michalis; Tsezou, Aspasia; Tsakalof, Andreas; Orfanidou, Timoklia; Hadjichristodoulou, Christos	2014	Increased levels of oxidxative DNA damage in pesticide sprayers in Thessaly Region (Greece). Implications of pesticide exposure	Science of the Total Environment (2014), 496, 358-364	テッサリア地方(ギリシャ)のさまざまな亜集団におけるDNAへの酸化的損傷を推定し、農薬やその他の可能性への曝露との相関関係を調査することを目的として、農薬散布者80人、農村住民85人、テッサリア市の住民121人の血液と尿を採取しているが、イミダクロプリドは直近に使用された農薬のリストの中に含まれているものの、血液及び尿中のイミダクロプリドは分析されていない。
38	Schmeits, Peter C. J.; Shao, Jia; Krieken, Danique A.; Volger, Oscar L.; Loveren, Henk; Peijnenburg, Ad. A. C. M.; Hendriksen, Peter J. M.	2014	Successful validation of genomic biomarkers for human immunotoxicity in Jurkat T cells in vitro	Journal of Applied Toxicology (2014) Ahead of Print	⑤
39	Rotroff, Daniel M.; Martin, Matt T.; Dix, David J.; Filer, Dayne L.; Houck, Keith A.; Knudsen, Thomas B.; Sipes, Nisha S.; Reif, David M.; Xia, Menghang; Huang, Ruili; Judson, Richard S.	2014	Predictive Endocrine Testing in the 21st Century Using in Vitro Assays of Estrogen Receptor Signaling Responses	Environmental Science and Technology (2014), 48(15), 8706-8716	①
40	Forrester, M. B. [Reprint Author]	2014	Neonicotinoid insecticide exposures reported to six poison centers in Texas.	Human and Experimental Toxicology, (JUN 2014) Vol. 33, No. 6, pp. 568-573. http://het.sagepub.com.	2000年から2012年にテキサスの毒物センターに報告されたネオニコチノイド曝露による代表的な症状等が記載されている文献であるが、イミダクロプリドについては、暴露がその全体の67.9%を占めると言う情報のみであり、リスク評価への利用はできないものと考えた。
41	Prerna Vohra; Khera, K. S.; Vohra, P.	2015	A three generation study with effect of imidacloprid in rats : biochemical and histopathological investigation.	Toxicology International (2015) , Volume 22, Number 1, pp. 119-124, 27 refs. ISSN: 0971-6580 DOI: 10.4103/0971-6580.172270 Published by: Society of Toxicology, India, Izatnagar	⑭（製剤を使用していると考えられるが、製剤名，処方が記載されていない。）
42	Vohra, Prerna; Khera, Kuldeep Singh	2015	Alterations in key enzymes and micromorphology of vital organs during exposure of imidacloprid in albino rats	International Journal of Advanced Research (2015), 3(3), 134-144	⑭

43	Amit Kumar; Jain, S. K.; Gaurav Gupta; Kumar, A.; Gupta, G.	2015	Determination of MTD and effect of subacute exposure of imidacloprid and its amelioration by resveratrol in male rats .	Journal of Veterinary Pharmacology and Toxicology (2015) , Volume 14, Number 1, pp. 13-17, 25 refs. ISSN: 0972-8872 Published by: Indian Society of Veterinary Pharmacology and Toxicology, North Gujarat	方法情報不足(住居、食事情報など) 結果情報の不足(臨床症状及びその発生率など，レスベラトロールによる改善効果が評価できない)
44	Adejumo, I. O.; Ologhobo, A. D.; Babalola, T. O.	2015	Effect of pre-planting seed dressers on serum enzymes of laying chickens	American Chemical Science Journal (2015), 9(2), 1-5	イミダクロプリドと他の農薬の混合物を混餌投与。
45	Krc, M.; Isk, M.; Atamanalp, M.	2015	In vitro effects of imidacloprid and lambda-cyhalothrin on Capoeta capoeta umbla kidney glucose 6-phosphate dehydrogenase enzyme. Imidacloprid ve lambda-cyhalothrinin Capoeta capoeta umbla boebrek dokusunda glikoz 6-fosfat dehidrogenaz enzimi uezerine in	Tuerkiye Tarmsal Arastrmalar Dergisi (2015) , Volume 2, Number 1, pp. 8-14, 26 refs. ISSN: 2148-2306 DOI: 10.19159/tutad.41219 Published by: Siirt University, Siirt	⑲
46	Al-Dabbagh, I. S.; Al-Bahadyli, L. J. M.	2015	Study the behavioral changes and gravimetric changes for weight organs in liver , kidney and spleen exposure to insecticide Imidacloprid in the white mice .	World Journal of Pharmaceutical Research (2015) , Volume 4, Number 4, pp. 114-122, 20 refs. ISSN: 2277-7105 Published by: World Journal of Pharmaceutical Research, Sofia	⑭ 有効成分の含有量不明。
47	Rajeev Sharma; Punia, J. S.; Jain, S. K.; Sharma, R.	2015	Toxicodynamic interactions of imidacloprid in mice : an insight into its mechanism of action.	Journal of Veterinary Pharmacology and Toxicology (2015) , Volume 14, Number 2, pp. 27-31, 22 refs. ISSN: 0972-8872 Published by: Indian Society of Veterinary Pharmacology and Toxicology, North Gujarat	⑭
48	Nicolle-Mir, Laurence	2015	[Autism spectrum disorders and exposure to flea products containing imidacloprid]. Troubles du spectre autistique et exposition a limidaclopride des produits anti-puces.	Environnement, Risques et Sante, (1 Mar 2015) Vol. 14, No. 2, pp. 113-115. Refs: 1 ISSN: 1635-0421 CODEN: ERSNAM	⑲
49	Amala, V. Eugin; Jeyaraj, M.; Mary, M. Meldintha	2015	Neuro protective efficacy of phytotherapeutic methanolic extract of polyherbal (triphala) on imidacloprid induced toxicity in wistar rats	World Journal of Pharmacy and Pharmaceutical Sciences (2015), 4(11), 1028-1039	⑭
50	Ahmed, Mahgoub M.; Nasr, Sawsan A.	2015	Protective effect of broccoli and ferulic acid on imidacloprid -induced neurotoxicity in rats	Journal of Biomedical and Pharmaceutical Research (2015), 4(4), 82-89	⑭ 用量の設定根拠が明確ではない。
51	Sakunthala Devi, P.R.; Gopala Reddy, A.; Boobalan, G.; Satish Kumar, C.S.V.	2015	Protective effect of curcumin against imidacloprid -induced genotoxicity in rats .	Toxicology International, (May-August 2015) Vol. 22, No. 2, pp. 65-69. Refs: 16 ISSN: 0971-6580; E-ISSN: 0976-5131	非GLP/OECD408(90日間反復経口投与のガイドライン) 被験物質の純度及び供給源の情報なし 試験方法の情報が不充分　陽性対照が設定されていない。 試験の目的がイミダクロプリドの毒性と言うよりは、Curcuminの緩和作用におかれている。

52	Lin, Chih-Chuan; Li, Jen-Hou; Chiu, Te-Fa	2015	Acute imidacloprid poisoning caused prolong depression of butyrylcholinesterase	Journal of Clinical Toxicology (2015), 5(4), 1000261/1-1000261/2	症例報告；自殺目的で約400mLを服用した1例、ヒトのブチリルコリンエステラーゼ活性を低下させるという初めての報告で、この真偽についてはまだ不確定とあるが、今後の治療の際参考になる可能性がある。しかし病歴、薬歴、事前の健康状態などの情報がない。リスク評価への利用という観点では適合性なしと考える。
53	Wu, Shih-Hao; Chen, Chun-Kuei; Lin, Chih-Chuan Wu, Shih-Hao (Reprint); Lin, Chih-Chuan	2015	Acute poisoning with the neonicotinoid insecticide imidacloprid misdiagnosed as organophosphate intoxication	CLINICAL TOXICOLOGY, (MAY 2015) Vol. 53, No. 4, pp. 330-330. MA 208. ISSN: 1556-3650.	国際会議(EAPCCT)要旨；症例報告；有機リン中毒(コリンエスレラーゼの低下）と疑われ、PAMが投与されたイミダクロプリド服毒例の報告　今後の治療の際に参考になる可能性がある。一方、患者の情報が少なく、服用した製剤名、量及び薬歴等の情報もなく、情報が限られている。リスク評価の観点から適合性なしと考える。
54	Sunny, Ansa; Mishra, Ajay Kumar (Correspondence); Chandiraesharan, Vignesh Kumar; Jose, Nisha	2015	Imidacloprid poisoning : Case report.	Indian Journal of Forensic Medicine and Toxicology, (1 Jul 2015) Vol. 9, No. 2, pp. 1-4. Refs: 11 ISSN: 0973-9122; E-ISSN: 0973-9130	症例報告；17.8%含有製剤75mLを意図的服用し回復した１例。今後の治療の際参考になる可能性がある。一方、服用前の病歴、薬歴などの情報もなく、リスク評価の観点からは適合性なしと考える。
55	Shi Qindong; Yuan Yaying; Teng Yan	2015	A case report of acute imidacloprid poisoning .	Zhonghua lao dong wei sheng zhi ye bing za zhi equals Zhonghua laodong weisheng zhiyebing zazhi equals Chinese journal of industrial hygiene and occupational diseases, (2015 Sep) Vol. 33, No. 9, pp. 709-10.	⑲日本語、英語以外の文献;中国語

56	Kabata Risako; Nanayakkara Shanika; Senevirathna Stmld; Harada Kouji H; Chandrajith Rohana; Hitomi Toshiaki; Abeysekera Tilak; Takasuga Takumi; Koizumi Akio	2015	Neonicotinoid concentrations in urine from chronic kidney disease patients in the North Central Region of Sri Lanka.	Journal of occupational health, (2015 Nov 7) . Electronic Publication Date: 7 Nov 2015	スリランカの北中部の水田農家に蔓延している原因不明の慢性腎臓病とネオニコチノイドの関連性を調べるため、ネオニコチノイド及びその代謝物(イミダクロプリド関連ではイミダクロプリドのみ)について尿のスポット分析を実施。イミダクロプリド及び脱メチルアセタミプリドが検出されている。その結果、慢性腎臓病群の方が対照群よりもイミダクロプリドの尿中濃度が低く、疾病とイミダクロプリド暴露の関係は無いというよりもむしろ逆相関となっている上、研究対象としたサンプル数も慢性腎臓病群で20、対象群で20と少ない。多成分分析法の詳細は不明であるが、過去の同グループの報文では妥当と思われる。また、動態の観点からは暴露量が不明であり、評価に利用できない。
57	Wang, Lei; Liu, Tianzhen; Liu, Fang; Zhang, Junjie; Wu, Yinghong; Sun, Hongwen	2015	Occurrence and Profile Characteristics of the Pesticide Imidacloprid , Preservative Parabens, and Their Metabolites in Human Urine from Rural and Urban China	Environmental Science and Technology (2015) Ahead of Print	中国で2014年4月～5月にかけて採取したヒト尿サンプル295検体について、パラヒドロキシ安息香酸エステル(パラベン)及びその代謝物に加え、イミダクロプリドと6-CNAを分析。被験者は、年齢層別に農村部(3群)あるいは都市部(2群)に在住している人で構成され、農村部の人についてはイミダクロプリドの散布の前後各3日間について毎日朝の尿を採取。農村部及び都市部ともイミダクロプリド及び6-CNAが検出。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、イミダクロプリドの散布条件は明確に示されており、散布後に尿中濃度の増加が示されているため暴露を受けたことを示すデータではあるが、各被験者が実際に受けた暴露量は不明なため評価に利用できない。

58	Ueyama, Jun; Harada, Kouji H.; Koizumi, Akio; Sugiura, Yuka; Kondo, Takaaki; Saito, Isao; Kamijima, Michihiro	2015	Temporal Levels of Urinary Neonicotinoid and Diaklyphosphate Concentrations in Japanese Women Between 1994-2011; Temporal Levels of Urinary Neonicotinoid and Dialkylphosphate Concentrations in Japanese Women Between 1994 and 2011	Environmental Science and Technology (2015) Ahead of Print	ヒト尿サンプル(45～75 歳女性、京都在住(住宅地)、1994, 2000, 2003, 2009, 2011年に採取。17～20人/年総95名)について、イミダクロプリドを含む7種類のネオニコチノイド農薬と4種類の有機リン代謝物を多成分分析。イミダクロプリドはいずれの測定年でも検出された。ネオニコチノイド農薬の尿中の検出率が1994年から2011年にかけて上昇している。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からも、検出はされているものの、暴露量が不明であり評価に利用できない。
59	Garcia-Garcia, Carmen R.; Parron, Tesifon; Requena, Mar; Alarcon, Raquel; Tsatsakis, Aristidis M.; Hernandez, Antonio F.	2016	Occupational pesticide exposure and adverse health effects at the clinical, hematological and biochemical level	Life Sciences (2016), 145, 274-283	⑪
60	Toumi, Khaoula; Vleminckx, Christiane; Van Loco, Joris; Schiffers, Bruno	2016	Pesticide residues on three cut flower species and potential exposure of florists in Belgium	International Journal of Environmental Research and Public Health (2016), 13(10), 943/1-943/14	⑪
61	Gallart-Mateu, D.; Armenta, S.; De La Guardia, M.	2016	Indoor and outdoor determination of pesticides in air by ion mobility spectrometry	Talanta (2016), 161, 632-639	⑯c
62	Vohra, Prerna; Khera, Kuldeep Singh	2016	Effect of imidacloprid on reproduction of female albino rats in three generation study	Journal of Veterinary Science and Technology (2016), 7(4), 340/1-340/7	⑭
63	Saxena, Ankita (Reprint); Kesari, V. P. Saxena, Ankita (Reprint) Kesari, V. P. Saxena, Ankita (Reprint)	2016	Lack of genotoxic potential of pesticides, spinosad, imidacloprid and neem oil in mice (Mus musculus)	JOURNAL OF ENVIRONMENTAL BIOLOGY, (MAR 2016) Vol. 37, No. 2, pp. 291-295. ISSN: 0254-8704.	⑭
64	Sumon, Kizar Ahmed; Rico, Andreu; Ter Horst, Mechteld M. S.; Van Den Brink, Paul J.; Haque, Mohammad Mahfujul; Rashid, Harunur	2016	Risk assessment of pesticides used in rice-prawn concurrent systems in Bangladesh	Science of the Total Environment (2016), 568, 498-506	新規のデータを含まず、また、日本の代表的な使用方法／使用条件における評価に活用できない文献（ほ場条件、土性等）
65	Khorasani, Ahmad G.; Danesh, Zahra F.; Shadnia, Shahin Khorasani, Ahmad G. (Reprint); Shadnia, Shahin	2016	Death after imidacloprid ingestion: a case report	CLINICAL TOXICOLOGY, (2016) Vol. 54, No. 4, pp. 437-437. MA 154. ISSN: 1556-3650.	症例報告（Abstract）；14%含有製剤250mLを意図的服用し、死亡した1例。今後の治療の際参考になる可能性がある。一方、服用前の病歴、薬歴などの情報もなく、リスク評価の観点からは適合性なしと考える.

66	Osaka, Aya; Ueyama, Jun; Kondo, Takaaki; Nomura, Hiroshi; Sugiura, Yuka; Saito, Isao; Nakane, Kunihiko; Takaishi, Ayuko; Ogi, Hiroko; Wakusawa, Shinya; Ito, Yuki; Kamijima, Michihiro	2016	Exposure characterization of three major insecticide lines in urine of young children in Japan-neonicotinoids, organophosphates, and pyrethroids	Environmental Research (2016), 147, 89-96	日本の都市在住3歳児223名(男児108人，女児115 人)について、健康診断時に夏期(2012)及び冬期(2013)に尿を採取し、イミダクロプリドを含むネオニコチノイド農薬有効成分、有機リン農薬代謝物、ピレスロイド農薬代謝物を多成分分析。イミダクロプリドが検出され、農薬の暴露要因に関する聞き取りも行っているが、毒性の観点からは疾病の情報が報告されておらず評価に利用できない。一方で動態の観点からは、暴露要因と検出量の関係が解析されておらず、暴露量も不明であることから評価に利用できない。
67	Toumi, Khaoula; Joly, Khaoula; Vleminckx, Christiane; Schiffers, Bruno	2017	Risk assessment of florists exposed to pesticide residues through handling of flowers and preparing bouquets	International Journal of Environmental Research and Public Health (2017), 14(5), 14050526/1-14050526/19	⑪
68	Yuan X L; Jian X D; Wang K	2017	2 cases of acute imidacloprid poisoning clinical analysis.	Zhonghua lao dong wei sheng zhi ye bing za zhi equals Zhonghua laodong weisheng zhiyebing zazhi equals Chinese journal of industrial hygiene and occupational diseases, (2017 Apr 20) Vol. 35, No. 4, pp. 309-310.	⑲
69	Strungaru, S. A.; Anghelus, D. M.; Nicoara, M.; Plavan, G.; Robea, M. A.; Gorban, C.; Vlad, C. E.	2017	An overview focused on toxicological effects of the neonicotinoid insecticide imidacloprid .	Analele Stiintifice ale Universitatii Al I Cuza din Iasi. (Serie Noua) Sectiunea I Biologie Animala (2017) , Volume 63, pp. 91-96, 12 refs. ISSN: 1224-581X Published by: Editura Universitatii Al. I. Cuza, Iasi	⑧
70	Mohamed, S. M. S.; Abdel-Megeed, M. I.; Mohamed, K. A.; Ebeed, N. M.; Hammad, M. A.	2017	Cytotoxicity of imidacloprid and myclobutanil pesticides on three cancer cell lines.	Arab Universities Journal of Agricultural Sciences (2017) , Volume 25, Number 2, pp. 331-338, 30 refs. ISSN: 1110-2675 Published by: The Society of Arab Colleges of Agriculture, Cairo	イミダクロプリドの3種のがん細胞（HEpG-2, MCF-7, PC3) への細胞毒性を検索している試験である。 従って、イミダクロプリドのリスク評価には利用できないと考える。
71	De Long, Nicole E.; Holloway, Alison C.	2017	Early-life chemical exposures and risk of metabolic syndrome.	Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, (21 Mar 2017) Vol. 10, pp. 101-109. Refs: 133 E-ISSN: 1178-7007	⑧ メタボリックシンドロームに主眼を置き、肥満とイミダクロプリドとの関連についてはほとんど言及されていない。

72	Mehmood, T.; Saeed, M.; Ahmad, M. M.; Ikram, M. S.; Siddique, F.; Tabassam, Q.	2017	Effect of imidacloprid (insecticide) on Serum Biochemical Parameters and degenerative Lesions In Male Rat s Liver .	Sindh University Research Journal -Science Series, (2017) Vol. 49, No. 3, pp. 605-612. ISSN: 1813-1743. E-ISSN: 1813-1743.	非GLP/準拠した試験ガイドラインの記載がない。 被験物質の調製を毎日行っているかわからない。 投与容量が記載されていない。 血液サンプルの採取部位が記載されていない。 被験物質の純度が記載されていない。 報告書にミスタイプ、ミスプリントがあり、正しい評価が難しい。
73	Chakroun, Sana; Grissa, Intissar; Ezzi, Lobna; Ammar, Oumaima; Neffati, Fadoua; Kerkeni, Emna; Najjar, Mohamed Fadhel; Haouas, Zohra; Cheikh, Hassen Ben	2017	Imidacloprid enhances liver damage in Wistar rats : biochemical, oxidative damage and histological assessment	Journal of Coastal Life Medicine (2017), 5(12), 540-546	⑭
74	Qamar, M. A.; Lqbal, M.; Asi, M. R.; Abbas, M.	2017	Pesticide monitoring in vegetables, Punjab, Pakistan and epidemiological survey of selected area	Oxidation Communications (2017), 40(3), 1127-1137	交絡因子、農薬の暴露量など疫学調査に必要なデータが不足しており、評価には使用できない
75	Jing-Yi, G.; Gao Yu; Tian Ying; Gao, Y.; Tian, Y.	2017	Research progress on imidacloprid exposure and genotoxity.	Journal of Environmental and Occupational Medicine (2017), Volume 34, Number 11, pp. 1013-1018, 41 refs. ISSN: 2095-9982 Published by: Shanghai Municipal Center for Disease Control and Prevention, Shanghai	⑲
76	Lehmann, Edouard; Oltramare, Christelle; Nfon Dibie, Jean-Jacques; Konate, Yacouba; De Alencastro, Luiz Felippe	2017	Assessment of human exposure to pesticides by hair analysis: The case of vegetable-producing areas in Burkina Faso	Environment International (2017) Ahead of Print	ブルキナファソのランビーラ湖周辺の10の村で野菜生産に従事する人101名から採取した毛髪中における農薬暴露の調査。38種の農薬を対象とし、17種の農薬が検出。検出された複数の農薬有効成分の一つとしてイミダクロプリドが記載されているが、それ以上の情報が無く疾病との関連性の解析を行った内容のものでもないため適合性なしと判断した。
77	Cattelan, Marcia Denise Pavanelo; Maurer, Patricia; Garcia, Fernandez; Berro, Lyana Feijoo; Machado, Michel Mansur; Manfredini, Vanusa; Piccoli, Jacqueline Da Costa Escobar	2018	Occupational exposure to pesticides in family agriculture and the oxidative, biochemical and hematological profile in this agricultural model	Life Sciences (2018), 203, 177-183	⑪
78	Komal	2018	A Review: Immunological and biochemical studies on imidacloprid toxicity	Pharma Innovation (2018), 7(4-P), 1-4	⑧
79	Mahajan, Lakshay; Verma, Pawan Kumar; Raina, Rajinder; Pankaj, Nrip K.; Sood, Shilpa; Singh, Maninder	2018	Alteration in thiols homeostasis, protein and lipid peroxidation in renal tissue following subacute oral exposure of imidacloprid and arsenic in Wistar rats	Toxicology Reports (2018), 5, 1114-1119	⑭

80	Esha Yadav; Yadav, E.	2018	Behavioural and haematological changes induced by Imidacloprid (Confidor) in Rattus norvegicus.	Journal of Experimental Zoology, India (2018) , Volume 21, Number 2, pp. 823-826, 18 refs. ISSN: 0972-0030 Published by: Dr P. R. Yadav, Muzaffrnagar	⑭
81	Hernandez J; Volland A; Leyshon B J; Juda M; Ridlon J M; Johnson R W; Steelman A J	2018	Effect of imidacloprid ingestion on immune responses to porcine reproductive and respiratory syndrome virus.	Scientific reports, (2018 Aug 02) Vol. 8, No. 1, pp. 11615. Electronic Publication Date: 2 Aug 2018	⑯b
82	Devashree, Yumnam; Kumar, Dutta Biman; Paul, S. B.; Sudip, Choudhury	2018	Evaluation of toxicity of Imidacloprid on erythrocyte membrane and vital organs in Swiss albino mice under experimental conditions	Research Journal of Chemistry and Environment (2018), 22(9), 41-46	⑯c（腹腔内投与） 被験物質の純度及び供給源が記載されていない。
83	El-Halwagy, Manal E. A.; Hussein, Rasha H.; Hamza, Amal H.; Al Bishri, Widad M.	2018	Hepatoprotective effect of alpha lipoic acid versus intoxication with imidacloprid widely used in KSA in albino rats	International Journal of Pharmaceutical Research and Allied Sciences (2018), 7(3), 224-233	⑭
84	Abd-Elhakim, Yasmina; Mohammed, Hesham H.; Mohamed, Wafaa A.	2018	Imidacloprid impacts on neurobehavioral performance, oxidative stress, and apoptotic events in the brain of adolescent and adult rats	Journal of Agricultural and Food Chemistry (2018) Ahead of Print	非GLP/準拠した試験ガイドラインの記載がない。 方法の情報が十分に提供されていない（測定日/測定頻度等）。用量設定が1用量のみで用量相関性が確認できない。
85	Prerna Vohra; Khera, K. S.; Vohra, P.	2018	Imidacloprid induced toxicity in ovary of female Wistar rats in two generations .	Applied Biological Research (2018) , Volume 20, Number 1, pp. 62-67 ISSN: 0972-0979 DOI: 10.5958/0974-4517.2018.00007.1 Published by: Centre for Advancement of Applied Sciences, Srinagar	⑭
86	Shi, Lin-Bo; Xu, Hua-Ping; Wu, Yu-Jie; Li, Xin; Gao, Jin-Yan; Chen, Hong-Bing	2018	The effects of imidacloprid combined with endosulfan on IgE-mediated mouse bone marrow-derived mast cell degranulation and anaphylaxis	Pesticide Biochemistry and Physiology (2018) Ahead of Print	⑯e
87	Vardavas, Alexander I.; Ozcagli, Eren; Fragkiadaki, Persefoni; Stivaktakis, Polychronis D.; Tzatzarakis, Manolis N.; Alegakis, Athanasios K.; Vasilaki, Fotini; Kaloudis, Kostas; Tsiaoussis, John; Kouretas, Dimitrios; Tsitsimpikou, Christina; Carvalho, Fel	2018	The metabolism of imidacloprid by aldehyde oxidase contributes to its clastogenic effect in New Zealand rabbits	Mutation Research, Genetic Toxicology and Environmental Mutagenesis (2018), 829-830, 26-32	非GLP 文献の小核試験及びコメットアッセイについてはウサギが使用されているが、文献に明記されているECD474あるいは489ガイドラインは、げっ歯類が推奨されており、ウサギでの妥当性が記載されていない。 Vapco(Jordan)から供給されたもので、被験物質の純度の情報なし。
88	Mahajan, Lakshay; Verma, Pawan Kumar; Raina, Rajinder; Sood, Shilpa	2018	Toxic effects of imidacloprid combined with arsenic: Oxidative stress in rat liver .	Toxicology and Industrial Health, (2018) . Refs: 37 ISSN: 0748-2337; E-ISSN: 1477-0393 CODEN: TIHEEC	⑭
89	Burke Andrew P; Niibori Yosuke; Terayama Hayato; Ito Masatoshi; Pidgeon Charlotte; Arsenault Jason; Camarero Pablo R; Cummins Carolyn L; Mateo Rafael; Sakabe Kou; Hampson David R	2018	Mammalian Susceptibility to a Neonicotinoid Insecticide after Fetal and Early Postnatal Exposure .	Scientific reports, (2018 Nov 09) Vol. 8, No. 1, pp. 16639. Electronic Publication Date: 9 Nov 2018	⑯c (浸透圧ミニポンプを介した投与)

90	Mahajan, Lakshay; Verma, Pawan Kumar; Raina, Rajinder; Sood, Shilpa	2018	Potentiating effect of imidacloprid on arsenic-induced testicular toxicity in Wistar rats .	BMC Pharmacology and Toxicology, (31 Jul 2018) Vol. 19, No. 1. arn. 48. Refs: 47 E-ISSN: 2050-6511	⑭
91	Schmidt, Silke, Phd.	2018	Promotional consideration: A potential mechanistic link between neonicotinoid insecticides and hormone-dependent breast cancer.	Environmental Health Perspectives, (November 2018) Vol. 126, No. 11. arn. 114001. Refs: 11 ISSN: 0091-6765; E-ISSN: 1552-9924	⑧
92	Mikolic Anja; Karaconji Irena Brcic	2018	Imidacloprid as reproductive toxicant and endocrine disruptor : investigations in laboratory animals.	Arhiv za higijenu rada i toksikologiju, (2018 Jun 01) Vol. 69, No. 2, pp. 103-108.	⑧
93	Perananthan, Varan; Mohamed, Fahim; Shahmy, Seyed; Gawarammana, Indika; Dawson, Andrew; Buckley, Nicholas Perananthan, Varan; Buckley, Nicholas Mohamed, Fahim Gawarammana, Indika Dawson, Andrew	2018	The clinical toxicity of Imidacloprid self-poisoning following the introduction of newer formulations	CLINICAL TOXICOLOGY, (2018) Vol. 56, No. 7, pp. 699-699. MA 40. ISSN: 1556-3650.	Short communication;査読なし
94	Nikhilesh, J.; Apurv, T.; Vivek, J.; Ankur, G.	2018	Imidacloprid poisoning : An Indian experience.	Intensive Care Medicine Experimental, (October 2018) Vol. 6, Supp. Supplement 2. Abstract Number: 0802. Meeting Info: 31st European Society of Intensive Care Medicine Annual Congress, ESICM 2018. Paris, France. 20 Oct 2018-24 Oct 2018 ISSN: 2197-425X	年次会議要旨 情報が限られており、リスク評価の観点から適合性なしと考える。
95	Prashar, A.; Ramesh, M.	2018	Assessment of pattern and outcomes of pesticides poisoning in a tertiary care hospital.	Tropical Medicine and International Health, (December 2018) Vol. 23, No. 12, pp. 1401-1407. Refs: 36 ISSN: 1360-2276; E-ISSN: 1365-3156 CODEN: TMIHFL	インドにおいて意図的中毒に対する農薬の関与が述べられたもので、イミダクロプリドがその中に含まれていた。年齢、投与経路、移住地域、職業に統計学的有意性が認められたと報告されている。イミダクロプリドとして個別に得られたデータは、意図的中毒に使われた患者数は2例(375例中）との情報のみで。評価の目的と適合しない文献とみなした。

96	Ikenaka Yoshinori; Miyabara Yuichi; Ichise Takahiro; Nakayama Shouta M M; Nimako Collins; Ishizuka Mayumi; Tohyama Chiharu	2018	EXPOSURES OF CHILDREN TO NEONICOTINOIDS IN PINE WILT DISEASE CONTROL AREAS.	Environmental toxicology and chemistry, (2018 Nov 26) . Electronic Publication Date: 26 Nov 2018	松枯れ病防除のためにチアクロプリドが使用されたコミュニティ(日本／長野)における46人の子供の尿(男性23人、女性23人、3－6歳、2016年5～6月採取)及び空気(二か所)について、7種類のネオニコチノイド農薬を多成分分析(イミダクロプリド関連ではイミダクロプリドのみ)。 イミダクロプリドは尿及び気中から検出されている。気中濃度分析に関して、分析精度、サンプリング法、吸引時間等が不明である。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。また、動態の観点からは、被験者が実際に吸入した気中濃度は測定されていないため吸入暴露量、またその他の経路からの暴露量が不明であり、評価に利用できない。
97	Hassan, Abdel Moniem S.; Abo El-Ela, Fatma I.; Abdel-Aziz, Ayman Moustafa	2019	Investigating the potential protective effects of natural product quercetin against imidacloprid -induced biochemical toxicity and DNA damage in adults rats	Toxicology Reports (2019), 6, 727-735	⑭/⑯e 被験物質として35%の液体を使用しており、その他の成分が不明。
98	Izumi, Hironori; Ishimoto, Tetsuya; Yamamoto, Hiroshi; Mori, Hisashi	2019	Bioluminescence imaging of Arc expression in mouse brain under acute and chronic exposure to pesticides	NeuroToxicology (2019), 71, 52-59	⑯c (腹腔内投与)
99	Bivehed, Erik; Gustafsson, Anton; Berglund, Anders; Hellman, Bjoern	2019	Evaluation of Potential DNA-Damaging Effects of Nitenpyram and Imidacloprid in Human U937-Cells Using a New Statistical Approach to Analyse Comet Data	Exposure and Health (2019) Ahead of Print	非GLP/準拠した試験ガイドラインの記載がない。 文献において使用した株は遺伝毒性を見る上で適していないと考えられる。
100	Ndonwi Elvis Ngwa; Atogho-Tiedeu Barbara; Lontchi-Yimagou Eric; Shinkafi Tijjani S; Nanfa Dieudonne; Balti Eric V; Indusmita Routray; Mahmood Amena; Katte Jean-Claude; Mbanya Armand; Matsha Tandi; Mbanya Jean Claude; Shakir Ali; Sobngwi Eugene	2019	Gestational Exposure to Pesticides Induces Oxidative Stress and Lipid Peroxidation in Offspring that Persist at Adult Age in an Animal Model.	Toxicological research, (2019 Jul) Vol. 35, No. 3, pp. 241-248. Electronic Publication Date: 15 Jul 2019	⑭
101	Ichikawa, Go; Kuribayashi, Ryota; Ikenaka, Yoshinori; Ichise, Takahiro; Nakayama, Shouta M.M.; Ishizuka, Mayumi; Taira, Kumiko; Fujioka, Kazutoshi; Sairenchi, Toshimi; Kobashi, Gen; Bonmatin, Jean-Marc; Yoshihara, Shigemi	2019	LC-ESI/MS/MS analysis of neonicotinoids in urine of very low birth weight infants at birth.	PLoS ONE, (2019) Vol. 14, No. 7. arn. e0219208. Refs: 61 E-ISSN: 1932-6203 CODEN: POLNCL	2009年1月から2010 年12月までに日本独協病院で生まれた超低体重新生児の尿(65サンプル)について、7種のネオニコチノイド農薬とその代謝物(イミダクロプリド関連ではイミダクロプリドのみ)を分析したが、イミダクロプリドは検出されていない。

102	Ilyushina, Nataliya; Goumenou, Marina; Stivaktakis, Polychronis D.; Vardavas, Alexander I.; Masaltsev, Gleb; Averianova, Nataliya; Dmitricheva, Olga; Revazova, Yulia; Tsatsakis, Aristidis M.; Rakitskii, Valerii	2019	Maximum tolerated doses and erythropoiesis effects in the mouse bone marrow by 79 pesticides technical materials assessed with the micronucleus assay.	Toxicology Reports, (1 Jan 2019) Vol. 6, pp. 105-110. Refs: 22 ISSN: 2214-7500	最高用量での多染性赤血球の結果が明記されているのみで、用量に関連した変化が確認できない。
103	Farag, Mayada R.; Fotoh, Magdy F. Abou-El; Gihan; El-Sayed, G.; El-Sayed, Eman W.	2019	Modulatory effect of ginger aqueous extract against imidacloprid -induced neurotoxicity in rats .	Zagazig Veterinary Journal, (2019) Vol. 47, No. 4, pp. 432-446. Refs: 67 ISSN: 1110-1458; E-ISSN: 2357-075X	⑭
104	Walderdorff, Louise; Laval-Gilly, Philippe; Wechtler, Laura; Bonnefoy, Antoine; Falla-Angel, Jairo	2019	Phagocytic activity of human macrophages and Drosophila hemocytes after exposure to the neonicotinoid imidacloprid	Pesticide Biochemistry and Physiology (2019) Ahead of Print	２つの細胞株で結果に差があるが、その違いについて言及されておらず、イミダクロプリドの影響であるかが疑わしい。 陽性対照が設定されていない。
105	Ravindra Kumar, C.N.; Nayak, Gajanan H., Dr. Prof.; Biradar, Sunilkumar S.; Madhu Sudhan, S.; Karlawad, Mahalaxmi; Selvan, Muthamizh	2019	Trends of death due to poisoning among females at a tertiary care centre in North Karnataka.	Indian Journal of Forensic Medicine and Toxicology, (January-March 2019) Vol. 13, No. 1, pp. 67-71. Refs: 22 ISSN: 0973-9122; E-ISSN: 0973-9130	当該農薬に限定されておらず（記載なし）、北カルナタカ州の3次医療センターにおける2014年1年間に中毒死した女性の傾向(年齢，居住地、学歴、服毒物等）を報告したもの。
106	Sriapha, C.; Trakulsrichai, S.; Intaraprasong, P.; Wongvisawakorn, S.; Tongpoo, A.; Schimmel, J.; Wananukul, W.	2019	Imidacloprid poisoning case series: potential for liver injury	Clinical Toxicology (2019) Ahead of Print	イミダクロプリド製剤を意図的な服用と肝障害の関連性を示した4症例報告。今後の治療の際参考となる可能性はある。しかし、他の病因や暴露などを除外するための検査がなされていない等、リスク評価への利用の観点では適合性なしと考える。
107	Selvam, Velmurugan	2019	Neonicotinoid poisoning and management.	Indian Journal of Critical Care Medicine, (2019) Vol. 23, Supp. Supplement 4, pp. S260-S262. Refs: 15 ISSN: 0972-5229; E-ISSN: 1998-359X	ネオニコチノイドとしてまとめられて述べられており、新規のデータが提示されていないことから、評価の目的と適合しない文献とみなした。

108	Zhang, Tao; Song, Shiming; Bai, Xueyuan; He, Yuan; Zhang, Bo; Gui, Mingwei; Kannan, Kurunthachalam; Lu, Shaoyou; Huang, Yanying; Sun, Hongwen	2019	A nationwide survey of urinary concentrations of neonicotinoid insecticides in China	Environment International (2019), 132, 105114	13都市324人(1－97歳）の尿(2016ー2017年に採取)について6種類のネオニコチノイドを多成分分析(イミダクロプリド関連ではイミダクロプリドのみ)。総ネオニコチノイド、イミダクロプリド、チアメトキサムの尿中濃度には性差及び地域差が認められているが、毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、暴露経路、食生活あるいは食後採尿時間が不明であるため、認められた性差及び地域差が暴露量の違いによるものか検証できない。
109	Tao, Yan; Dong, Fengshou; Xu, Jun; Phung, Dung; Liu, Qianyu; Li, Runan; Liu, Xingang; Wu, Xiaohu; He, Min; Zheng, Yongquan	2019	Characteristics of neonicotinoid imidacloprid in urine following exposure of humans to orchards in China	Environment International (2019), 132, 105079	中国の農薬散布者119人、その家族(農薬散布者は含まれず)156人(いずれも果樹園の近辺の9村に在住)、果樹園周辺の247人の幼稚園児、都市在住42人、果樹園から25km離れた幼稚園に通う子供53人の尿(サンプル総数1926、2017年3月から6月に採取)のイミダクロプリド及び6-CNAを分析。農薬散布者に関しては、農薬の散布後で両物質とも濃度が増加。都市部より農村部で、また農村部においては若年齢層より高年齢層で両物質の濃度が高い傾向。果樹園周辺の幼稚園児と果樹園から25㎞離れた幼稚園児との比較では果樹園周辺の幼稚園児の方が両物質の濃度が高い傾向であった。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、以上の集団間における両物質の濃度の違いについて暴露量の差が要因の可能性が示唆されるが、各被験群における暴露量が不明なため、年齢差及び性差の検証はできない。

110	Tao, Yan; Phung, Dung; Dong, Fengshou; Xu, Jun; Liu, Xingang; Wu, Xiaohu; Liu, Qianyu; He, Min; Pan, Xinglu; Li, Runan; Zheng, Yongquan	2019	Urinary monitoring of neonicotinoid imidacloprid exposure to pesticide applicators	Science of the Total Environment (2019), 669, 721-728	大規模な果樹園に隣接する村に住む農薬散布者(中国　Henan地方)から提供された86の尿サンプルについて、イミダクロプリド及び6-CNAを分析。両者が検出されているものの、毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。また動態の観点からは、暴露量が示されておらず評価に利用できない。
111	Ilyushina, Nataliya A.; Egorova, Olga V.; Masaltsev, Gleb V.; Averianova, Nataliya S.; Revazova, Yulia A.; Rakitskii, Valerii N.; Goumenou, Marina; Vardavas, Alexander; Stivaktakis, Polychronis; Tsatsakis, Aristidis	2020	Genotoxicity of mixture of imidacloprid , imazalil and tebuconazole	Toxicology Reports (2020), 7, 1090-1094	⑫
112	Soujanya, S; Lakshman, M; Madhuri, D; Reddy, A Gopala; Rao, S V Rama	2020	Hematological Alterations Induced by Imidacloprid and Ameliorative Effect of Withania somnifera in Female Albino Wistar Rats	Journal of Animal Research, Vol. 10, No. 2, pp. 215-220, 20200401 ISSN: 2249-6629 E-ISSN: 2277-940X DOI: 10.30954/2277-940X.02.2020.8 Published by: New Delhi Publishers, New Delhi	⑯e 被験物質の純度が記載されていない。
113	Ndonwi Elvis Ngwa; Atogho-Tiedeu Barbara; Lontchi-Yimagou Eric; Shinkafi Tijjani S; Nanfa Dieudonne; Balti Eric V; Katte Jean Claude; Mbanya Armand; Matsha Tandi; Mbanya Jean Claude; Shakir Ali; Sobngwi Eugene	2020	Metabolic effects of exposure to pesticides during gestation in female Wistar rats and their offspring : a risk factor for diabetes?.	Toxicological research, (2020 Jul) Vol. 36, No. 3, pp. 249-256. Electronic Publication Date: 4 Feb 2020	⑭
114	Mohamed Wafaa H; Amein Karam A; Yahia Doha; Sharkawy Ahmed A; Mahmoud Adel S	2020	Mutagenic effect of imidacloprid insecticide: The ameliorative effect of pre and post exposure to olive oil.	Journal of food biochemistry, (2020 Apr 03) pp. e13221. Electronic Publication Date: 3 Apr 2020	⑭
115	Phyu, Mya Pwint, Prof.; Hlain, Zarchi Theint Theint; Zaw, Thurein; Htway, Soe Minn; Sein, Mya Thanda	2020	Correlation study between erythrocyte acetylcholinesterase activity, serum malondialdehyde and insulin sensitivity in agricultural workers and non-agricultural workers in nat-kan village, magway township.	Journal of the ASEAN Federation of Endocrine Societies, (2020) Vol. 35, No. 1, pp. 85-92. Refs: 40 ISSN: 0857-1074; E-ISSN: 2308-118X	①
116	Coppola, Lucia; Tait, Sabrina; Ciferri, Lorella; Frustagli, Gianluca; Merola, Carmine; Perugini, Monia; Fabbrizi, Enrica; Rocca, Cinzia La	2020	Integrated approach to evaluate the association between exposure to pesticides and idiopathic premature thelarche in girls: the PEACH project	International Journal of Molecular Sciences (2020), 21(9), 3282	これから実施される研究の概要報告であり、結果は報告されていない。

117	Sriapha, Charuwan; Trakulsrichai, Satariya; Tongpoo, Achara; Pradoo, Aimon; Rittilert, Panee; Wananukul, Winai	2020	Acute imidacloprid poisoning in thailand.	Therapeutics and Clinical Risk Management, (2020) Vol. 16, pp. 1081-1088. Refs: 36 ISSN: 1176-6336; E-ISSN: 1178-203X	タイの中毒センターに集められた約9年間イミダクロプリドによる中毒の報告。全体で163名(服用93.7%), 製剤の剤形区分、患者の住む地域区分、投与経路などの割合が示されている。死亡5例については、年齢、性別、服用した剤形(1例不明)、症状の種類/重症度、死亡に至った時間などが個別に記載されており、今後の治療の際参考になる可能性がある。一方、回復例も同様に服用量及び服用前の病歴、薬歴などの情報がないなどデータが不足しており、リスク評価への利用という観点からは適合性なしと考える。
118	Mu, Han-Wei; Hung, Dong-Zong Mu, Han-Wei Hung, Dong-Zong	2020	Imidacloprid poisoning complicated with cardiogenic shock survived by extracorporeal life support	CLINICAL TOXICOLOGY, (2 2020 APR 2020) Vol. 58, No. 4, pp. 320-320. ISSN: 1556-3650.	症例報告(Abstract）；9.8%含有製剤を服用した1例。今後の治療の際参考になる可能性がある。一方、服用量、服用前の病歴、薬歴などの情報もなく、リスク評価の観点からは適合性なしと考える。
119	Sivanandan, A.; Abel, S. R.; Sanjay, M.; Jolly Chandran; Karthik Gunasekaran; Abhilash, K. P. P.; Chandran, J.; Gunasekaran, K.	2020	Profile and outcome of patients presenting with agrochemical poisoning to the emergency department.	Journal of Family Medicine and Primary Care (2020) , Volume 9, Number 3, pp. 1589-1593, 30 refs. ISSN: 2249-4863 DOI: 10.4103/jfmpc.jfmpc_1096_19 Published by: Medknow Publications, Mumbai URL (Availability): http://www.jfmpc.com/article.asp?issn equals 2	イミダクロプリドについてのデータが報告されていない。新規化合物については、解毒などの研究が必要と報告されているのみ。
120	Ekka, Meera; Kumar, Gaurav; Jamshed, Nayer; Aggarwal, Praveen Ekka, Meera; Aggarwal, Praveen	2020	Fatal suicidal poisoning with imidacloprid insecticide: a rare case report	CLINICAL TOXICOLOGY, (2 2020 APR 2020) Vol. 58, No. 4, pp. 352-352. ISSN: 1556-3650.	年次会議要旨；症例報告 30.5%イミダクロプリド含有製剤50mLを服用した死亡例 1 例の報告;今後の治療の際参考になる可能性がある。一方、病歴、薬歴等の情報がなく、情報量が限られていることから、リスク評価の観点からは適合性なしと考える。
121	De Araujo Nascimento, Felipe; Alves, Alessandro Arruda; Nunes, Hugo Freire; Miziara, Fausto; Parise, Michelle Rocha; De Melo E Silva, Daniela	2020	Cultivated areas and rural workers behavior are responsible for the increase in agricultural intoxications in Brazil? Are these factors associated?	Environmental Science and Pollution Research (2020), 27(30), 38064-38071	ブラジルで使用されている農薬のひとつとしてイミダクロプリドが記録されているが、固有の中毒に関する情報など記載されていない。

122	Lopez-Galvez, Nicolas; Wagoner, Rietta; Canales, Robert A.; De Zapien, Jill; Calafat, Antonia M.; Ospina, Maria; Rosales, Cecilia; Beamer, Paloma	2020	Evaluating imidacloprid exposure among grape field male workers using biological and environmental assessment tools: An exploratory study	International Journal of Hygiene and Environmental Health (2020), 230, 113625	メキシコのブドウ農場での作業者(男性20名)について、イミダクロプリドを灌注処理5日後に尿中のネオニコチノイド農薬(イミダクロプリド関連ではイミダクロプリド及び5-OHイミダクロプリド)、手拭きのイミダクロプリド量、気中のイミダクロプリド濃度を測定。イミダクロプリドは尿、手拭きで、5-OHイミダクロプリドは尿中で検出。気温の高い夏のほうがイミダクロプリド及び5-OHイミダクロプリドで検出濃度が高い傾向。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、イミダクロプリド及び5-OHイミダクロプリドの暴露経路が特定されておらず、それぞれの暴露量が不明なため評価に利用できない。
123	Wang, Aizhen; Mahai, Gaga; Wan, Yanjian; Yang, Zong; He, Zhenyu; Xu, Shunqing; Xia, Wei	2020	Assessment of imidacloprid related exposure using imidacloprid - olefin and desnitro - imidacloprid : Neonicotinoid insecticides in human urine in Wuhan, China	Environment International (2020), 141, 105785	中国武漢の健康な成人(129人)の尿検体(408)(採取時期;秋から冬)について10種のネオニコチノイド及びその代謝物を多成分分析(イミダクロプリド関連では、イミダクロプリド、脱ニトロ-イミダクロプリド、イミダクロプリド-オレフィンを分析)。イミダクロプリド、脱ニトロ-イミダクロプリド、イミダクロプリド-オレフィンが検出されたが、毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。また動態の観点からは、これらの暴露経路及び暴露量が不明なため評価に利用できない。

124	Suwannarin Neeranuch; Prapamontol Tippawan; Isobe Tomohiko; Nishihama Yukiko; Nakayama Shoji F	2020	Characteristics of Exposure of Reproductive -Age Farmworkers in Chiang Mai Province, Thailand, to Organophosphate and Neonicotinoid Insecticides: A Pilot Study.	International journal of environmental research and public health, (2020 Oct 27) Vol. 17, No. 21. Electronic Publication Date: 27 Oct 2020	タイ チェンマイにある2つの集約農業地域それぞれ各50人(生殖年齢にある農業従事者)の尿中の有機リン農薬、ネオニコチノイド農薬及びそれらの代謝物の多成分分析(イミダクロプリド関連では、イミダクロプリド、水酸化イミダクロプリド、イミダクロプリドオレフィンを分析)。イミダクロプリド及びイミダクロプリドオレフィンが検出。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、暴露形態について、作業者の防護装備の観点や、飲料として供された井戸水などが推察されているものの、イミダクロプリド及び代謝物の暴露量が不明なため、評価に利用できない。
125	Song Shiming; Zhang Tao; Huang Yingyan; Zhang Bo; Guo Yuankai; He Yuan; Huang Xiongfei; Bai Xue-Yuan; Kannan Kurunthachalam	2020	Urinary Metabolites of Neonicotinoid Insecticides: Levels and Recommendations for Future Biomonitoring Studies in China.	Environmental science and technology, (2020 May 11) . Electronic Publication Date: 11 May 2020	中国10都市ヒト275人尿サンプルについて、ネオニコチノイドの代謝物を多成分分析(イミダクロプリド関連では、OHイミダクロプリド及びイミダクロプリドオレフィンを分析)。OHイミダクロプリド及びイミダクロプリドオレフィンとも検出されている。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。動態の観点からは、本文献では別文献のイミダクロプリド分析濃度を参照して、イミダクロプリドと代謝物の濃度比を比較しているが、イミダクロプリド及び代謝物の暴露経路及び暴露量が不明なため評価に利用できない。
126	Chen, Dawei; Liu, Zhibin; Barrett, Holly; Han, Jiajun; Lv, Bing; Li, Yan; Li, Jingguang; Zhao, Yunfeng; Wu, Yongning	2020	Nationwide Biomonitoring of Neonicotinoid Insecticides in Breast Milk and Health Risk Assessment to Nursing Infants in the Chinese Population	Journal of Agricultural and Food Chemistry (2020) Ahead of Print	中国23省の授乳婦3570人からの母乳サンプル(Pooled)97検体 (採取期間2017年から2019年)について、イミダクロプリドを含むネオニコチノイド農薬とアセタミプリド-N-デスメチルを多成分分析。分析精度の報告がない。ネオニコチノイドの総量に対する割合は、アセタミプリド-N-デスメチル61.2%、イミダクロプリド15.6%の順であった。毒性の観点からは、母及び児の疾病の情報が報告されておらず、評価に利用できない。一方で動態の観点からは、暴露量が不明なため評価に利用できない。

127	Wang, Hexing; Yang, Dongjian; Fang, Hongji; Han, Minghui; Tang, Chuanxi; Wu, Jingui; Chen, Yue; Jiang, Qingwu	2020	Predictors, sources, and health risk of exposure to neonicotinoids in Chinese school children: A biomonitoring -based study	Environment International (2020), 143, 105918	中国 7歳から11歳の309人の学童尿サンプルについて、ネオニコチノイド農薬とその代謝物(イミダクロプリド関連ではイミダクロプリド及び5-OHイミダクロプリド)を分析。分析法の妥当性は不明。イミダクロプリドが検出されたが5-OHイミダクロプリドは定量限界未満。毒性の観点からは、疾病の情報が報告されておらず評価に利用できない。また動態の観点からは、両者それぞれの暴露量が不明なため評価に利用できない。
128	Kasiotis, Konstantinos M.; Baira, Eirini; Manea-Karga, Electra; Nikolopoulou, Dimitra; Ganas, Konstantinos; Machera, Kyriaki Kasiotis, Konstantinos M.; Machera, Kyriaki Ganas, Konstantinos	2021	Investigating a human pesticide intoxication incident: The importance of robust analytical approaches	OPEN CHEMISTRY, (2021 JAN 2021) Vol. 19, No. 1, pp. 107-118. ISSN: 2391-5420.	⑤ヒト生体液中の数種の農薬及び代謝物の検出と定量を担う分析法の検討であることから、評価の目的と適合しない文献とみなした。
129	Nimako Collins; Ikenaka Yoshinori; Akoto Osei; Bortey-Sam Nesta; Ichise Takahiro; Nakayama Shouta M M; Asante Kwadwo A; Fujioka Kazutoshi; Taira Kumiko; Ishizuka Mayumi	2021	Human Exposures to Neonicotinoids in Kumasi, Ghana.	Environmental toxicology and chemistry, (2021 Apr 06) . Electronic Publication Date: 6 Apr 2021	ガーナ クマシ地方75人（13－80歳, 非農家）の尿について、ネオニコチノイド農薬とその代謝物を多成分分析(イミダクロプリド関連ではイミダクロプリドのみ)。分析法の妥当性は不明。イミダクロプリドが検出されたものの、毒性の観点からは、疾病の情報が報告されていないため評価に利用できない。一方で動態の観点からも、暴露量が不明なため評価に利用できない。
130	Xu, Miaomiao; Zhang, Zhanpeng; Li, Zhiyong; Kan, Shunyan; Liu, Zhaoxiang; Wang, Desheng; Liu, Qihui; Zhang, Hua	2021	Profiles of neonicotinoid insecticides and characteristic metabolites in paired urine and blood samples: Partitioning between urine and blood and implications for human exposure	Science of the Total Environment (2021), 773, 145582	中国の若年成人196人(20～27歳、大学生)の尿および血液(2018年9月採取)について多成分分析(イミダクロプリド関連ではイミダクロプリド及びイミダクロプリドオレフィンを分析)。尿及び血液からイミダクロプリドとイミダクロプリドオレフィンを検出。毒性の観点からは、疾病の情報が報告されておらず、評価に利用できない。動態の観点からは、イミダクロプリドとイミダクロプリドオレフィンの濃度を比較するとともに両者の摂取量を推測しているが、イミダクロプリドオレフィンについてイミダクロプリド本体がヒト体内で代謝されたのか、代謝物として食事経由で取り込まれたのか不明なため、評価に利用できない。

131	Chen, Qianyu; Zhang, Yayun; Li, Jianhua; Su, Guanyong; Chen, Qi; Ding, Zhen; Sun, Hong	2021	Serum concentrations of neonicotinoids, and their associations with lipid molecules of the general residents in Wuxi City, Eastern China	Journal of Hazardous Materials (2021), 413, 125235	中国東部の Wuxi city の同じ地域の120人(一般住居者、9－80歳)について、血清中の農薬の多成分分析(イミダクロプリド関連ではイミダクロプリドのみ分析)とともに、脂質を分析。その結果、イミダクロプリドを含む7ネオニコチノイドを検出。ネオニコチノイドのレベルと集団特性(年齢、喫煙、健康状態など)との間に統計的に有意な相関関係があると報告されているものの、それらのサンプル数が記載されていない。また、イミダクロプリド濃度と脂質レベルとの間に統計学的に有意な相関関係は観察されていない。pptレベルで分析されているが分析精度の報告がなく分析値の妥当性が不明。血清においてイミダクロプリドが検出されたが、暴露量が不明なため体内動態の評価に利用できない。

132	Nozaki, Tomoharu; Yamata, Toshiaki	2007	Determination of imidacloprid in feed by LC-MS	Shiryo Kenkyu Hokoku (Norin Suisan Shohi Anzen Gijutsu Senta) (2007), 32, 23-29	⑤
133	Kumar, K.; Santharam, G.; Regupathy, A.; Kuttalam, S.; Chandrasekaran, S.	2008	Standardization and determination of harvest time residues of imidacloprid on cotton	Journal of Plant Protection and Environment (2008), 5(1), 13-15	⑰
134	Hayashi, Takako; Fujimaki, Teruhisa; Itoh, Shin-Ichi	2008	Analysis of pesticide residues in agricultural products by liquid chromatography with tandem mass spectrometry	Kanagawa-ken Eisei Kenkyusho Kenkyu Hokoku (2008), 38, 39-43	⑧
135	Claeys, W. L.; De Voghel, S.; Schmit, J.-F.; Vromman, V.; Pussemier, L.	2008	Exposure assessment of the Belgian population to pesticide residues through fruit and vegetable consumption	Food Additives and Contaminants, Part A: Chemistry, Analysis, Control, Exposure and Risk Assessment (2008), 25(7), 851-863	⑪
136	Cus, Franc; Cesnik, Helena Basa; Bolta, Spela Velikonja; Gregorcic, Ana	2009	Pesticide residues and microbiological quality of bottled wines	Food Control (2009), Volume Date 2010, 21(2), 150-154	⑯d
137	Tsuchida, Takamasa; Chatani, Yoshiyuki; Ohfuji, Masumi; Owaki, Shigeyoshi; Nishiuchi, Hajime; Matsumoto, Hironobu; Ohta, Hiroko	2010	A survey of pesticide residues in agricultural products (Apr. 2009 - Mar. 2010)	Kyoto-fu Hoken Kankyo Kenkyusho Nenpo (2010), 55, 62-66	⑧
138	Schippers, Nicole; Schwack, Wolfgang	2010	Phototransformation of imidacloprid on isolated tomato fruit cuticles and on tomato fruits	Journal of Photochemistry and Photobiology, B: Biology (2010), 98(1), 57-60	⑰
139	Cus, Franc; Cesnik, Helena Basa; Bolta, Spela Velikonja; Gregorcic, Ana	2010	Pesticide residues in grapes and during vinification process	Food Control (2010), 21(11), 1512-1518	①
140	Mohapatra, Soudamini; Ahuja, Ashok Kumar; Sharma, Debi; Deepa, Manthirachalam; Prakash, Gondakar Seshagirirao; Kumar, Sampath	2011	Residue study of imidacloprid in grapes (Vitis vinifera L.) and soil	Quality Assurance and Safety of Crops and Foods (2011), 3(1), 24-27	⑰
141	Gebara, A. B.; Ciscato, C. H. P.; Monteiro, S. H.; Souza, G. S.	2011	Pesticide Residues in some Commodities: Dietary Risk for Children.	Bull. Environ. Contam. Toxicol., Volume 86, Issue 5, Page 506-510, Publication Year 2011	⑪
142	Nakayama, Hideki; Doi, Kohei; Tsujimura, Kazunari; Yamanouchi, Kimiko	2011	Pesticide residues in agricultural products (2011)	Nagasaki-ken Kankyo Hoken Kenkyu Senta Shoho (2011), 57, 91-94	⑯d
143	Ashauer, Roman; Hintermeister, Anita; Oconnor, Isabel; Elumelu, Maline; Hollender, Juliane; Escher, Beate I.	2012	Significance of Xenobiotic Metabolism for Bioaccumulation Kinetics of Organic Chemicals in Gammarus pulex.	Environ. Sci. Technol., Volume 46, Issue 6, Page 3498-3508, Publication Year 2012	⑬
144	Iwakoshi, Keiko; Kobayashi, Maki; Otsuka, Kenji; Tamura, Yasuhiro; Tomizawa, Sanae; Kinoshita, Teruaki; Kamijo, Kyoko; Sato, Chizuko; Takano, Ichiro	2012	Survey of pesticide recidues in domestic vegetables and fruits (April 2011-March 2012)	Tokyo-to Kenko Anzen Kenkyu Senta Kenkyu Nenpo (2012), 63, 229-235	東京都健康安全研究センターの年報であり査読付き雑誌ではない。
145	Owaki, Shigeyoshi; Hamada, Sachiko; Tsuchida, Takamasa; Toriminami, Yutaka; Matsumoto, Hironobu; Mozawa, Marina; Chatani, Yoshiyuki	2012	Survey of pesticide residues in agricultural products (Apr. 2011-May 2012)	Kyoto-fu Hoken Kankyo Kenkyusho Nenpo (2012), 57, 50-55	東京都健康安全研究センターの年報であり査読付き雑誌ではない。
146	Ushiyama, Keiko; Kobayashi, Maki; Otsuka, Kenji; Tamura, Yasuhiro; Tomizawa, Sanae; Kinoshita, Teruaki; Kamijo, Kyoko; Iwakoshi, Keiko; Sato, Chizuko; Takano, Ichiro	2012	Survey of pesticide residues in imported crops (orgonophosphorus and organonitrogen pesticides) (April 2011-March 2012)	Tokyo-to Kenko Anzen Kenkyu Senta Kenkyu Nenpo (2012), 63, 213-219	東京都健康安全研究センターの年報であり査読付き雑誌ではない。
147	Khan, Barkat Ali; Zubair, Ahmad; Khan, Sher Ali; Ud-Din, Zahoor	2012	Monitoring pesticide residues in fruits and vegetables grown in Khyber Pakhtoonkhwa	International Journal of Green and Herbal Chemistry (2012), 1(3), 302-313, 12 pp.	⑯d
148	Mohapatra, Soudamini; Deepa, M.; Lekha, S.; Nethravathi, B.; Radhika, B.; Gourishanker, S.	2012	Residue Dynamics of Spirotetramat and Imidacloprid in/on Mango and Soil	Bulletin of Environmental Contamination and Toxicology (2012), 89(4), 862-867	⑰
149	Lin, Ling; Yang, Chunliang; Peng, Zheng; Wang, Mingyue; Zeng, Zongqiang; Guo, Hongbin	2013	Determination of imidacloprid,acetamiprid, thiabendazole and carbendazim residues in edible fungi by HPLC	Advanced Materials Research (Durnten-Zurich, Switzerland) (2013), 781-784(Advances in Chemical Engineering III), 99-103	⑤ ⑰

150	Lin, Ling; Peng, Zheng; Yang, Chunliang; Wang, Mingyue; Zha, Yubing; Liu, Lili; Zeng, Shaodong	2013	Determination of imidacloprid,carbendazim and thiabendazole residues in vegetables and fruits by HPLC	Advanced Materials Research (Durnten-Zurich, Switzerland) (2013), 781-784(Advances in Chemical Engineering III), 1392-1396	⑤ ⑰
151	Hendawi, M. Y.; Romeh, A. A.; Mekky, T. M.	2013	Effect of food processing on residue of imidacloprid in strawberry fruits.	Journal of Agricultural Science and Technology (2013), Volume 15, Number 5, pp. 951-959, 33 refs. ISSN: 1680-7073 Published by: Tarbiat Modares University, Tehran	⑬ ⑰
152	Chauhan, Shailendra S.; Srivastava, Anjana	2013	Effect of imidacloprid insecticide residue on biochemical parameters in potatoes and its estimation by HPLC.	Asian Journal of Pharmaceutical and Clinical Research, (August 2013) Vol. 6, No. SUPPL.3, pp. 114-117. Refs: 24 ISSN: 0974-2441	⑬ ⑰
153	Arienzo, M.; Cataldo, D.; Ferrara, L.	2013	Pesticide residues in fresh-cut vegetables from integrated pest management by ultra performance liquid chromatography coupled to tandem mass spectrometry	Food Control (2013), 31(1), 108-115	⑯d
154	Martin, L.; Mezcua, M.; Ferrer, C.; Gil Garcia, M. D.; Malato, O.; Fernandez-Alba, A. R.	2013	Prediction of the processing factor for pesticides in apple juice by principal component analysis and multiple linear regression	Food Additives and Contaminants, Part A: Chemistry, Analysis, Control, Exposure and Risk Assessment (2013), 30(3), 466-476	⑰
155	Honnappagouda, K; Bheemanna, M; Ravi, M V; Hosamani, A C	2013	Residue Levels of Imidacloprid Formulations in Okra Fruits	Indian journal of plant protection (Jun 2013), Volume 41, Number 2, pp. 132-135, 4 p. ISSN: 0253-4355; 2249-7870; 2249-7870 Source Note: 201306, v. 41, no. 2	⑰
156	Abdel-Hamid, Rania M.; El-Sayed, Walaa; Ahmed, Nevein S.	2013	The relationship between different formulation types and the residue levels of pesticides on tomato fruits	Research Journal of Agriculture and Biological Sciences (2013), 9(1), 8-16	⑯d
157	Nix, K.; Lambdin, P.; Grant, J.; Coots, C.; Merten, P.	2013	Concentration levels of imidacloprid and dinotefuran in five tissue types of black walnut, Juglans nigra.	Forests (2013), Volume 4, Number 4, pp. 887-897, 34 refs. ISSN: 1999-4907 DOI: 10.3390/f4040887 Published by: MDPI Publishing, Basel	⑰
158	Tamura, Yasuhiro; Otsuka, Kenji; Ushiyama, Keiko; Tomizawa, Sanae; Yamaki, Yumiko; Iwakoshi, Keiko; Baba, Itoko; Takano, Ichiro	2013	Survey of pesticide residues in domestic vegetables and fruits (April 2012-March 2013)	Tokyo-to Kenko Anzen Kenkyu Senta Kenkyu Nenpo (2013), 64, 137-142	東京都健康安全研究センターの年報であり査読付き雑誌ではない。
159	Tomizawa, Sanae; Otsuka, Kenji; Ushiyama, Keiko; Tamura, Yasuhiro; Yamaka, Yumiko; Iwakoshi, Keiko; Baba, Itoko; Takano, Ichiro	2013	Survey of pesticide residues in imported crops (fruits) (April 2012-March 2013)	Tokyo-to Kenko Anzen Kenkyu Senta Kenkyu Nenpo (2013), 64, 127-135	東京都健康安全研究センターの年報であり査読付き雑誌ではない。
160	Nieto-Garcia, Antonio Jose; Romero-Gonzalez, Roberto; Garrido Frenich, Antonia	2014	Determination of multi-class pesticide residue in dietary supplements from grape seed extracts by ultra-high-performance liquid chromatography coupled to triple quadrupole mass spectrometry	Food Additives and Contaminants, Part A: Chemistry, Analysis, Control, Exposure and Risk Assessment (2014), 31(9), 1550-1561	⑤
161	Rebelo, Andrey M.; Heller, Melina; Dolzan, Maressa D.; Deschamps, Francisco C.; Abate, Gilberto; Micke, Gustavo A.; Grassi, Marco T.	2014	Determination of twenty pesticides in rice by employing QuEChERS and LC-ESI-MS/MS	Analytical Methods (2014), 6(23), 9469-9476	⑤
162	Alister, Claudio (Reprint); Araya, Manuel; Morande, Jose E.; Volosky, Christian; Saavedra, Jorge; Cordova, Andres; Kogan, Marcelo Alister, Claudio (Reprint); Araya, Manuel Morande, Jose E. Volosky, Christian Saavedra, Jorge; Cordova, Andres Kogan, Marcelo	2014	Effects of wine grape cultivar, application conditions and the winemaking process on the dissipation of six pesticides	CIENCIA E INVESTIGACION AGRARIA, (OCT-DEC 2014) Vol. 41, No. 3, pp. 375-386. ISSN: 0718-1620.	⑬ ⑰

163	Muller, Erica; Van Der Schoor, Caroline; Brocca, Daniela; Medina-Pastor, Paula; Reich, Hermine; Triacchini, Giuseppe	2014	The 2011 European union report on pesticide residues in food	EFSA Journal (2014), 12(5), 3694/1-3694/511, 511 pp.	⑪
164	Liang, Y.; Liu, Y.; Ding, Y.; Liu, X. J.	2014	Meta-analysis of food processing on pesticide residues in fruits	Food Additives and Contaminants, Part A: Chemistry, Analysis, Control, Exposure and Risk Assessment (2014), 31(9), 1568-1573	⑬
165	Sahoo, S. K.; Balwinder Singh; Singh, B.	2014	Uptake and persistence of imidacloprid in cotton crop after application to cotton seeds.	Journal of Insect Science (Ludhiana) (2014), Volume 27, Number 2, pp. 260-264, 16 refs. ISSN: 0970-3837 Published by: Indian Society for the Advancement of Insect Science, Ludhiana	⑰
166	Belenguer, Vicent; Martinez-Capel, Francisco; Masia, Ana; Pico, Yolanda	2014	Patterns of presence and concentration of pesticides in fish and waters of the Jucar River (Eastern Spain)	Journal of Hazardous Materials (2014), 265, 271-279	⑯d
167	Panhwar, A. A.; Sheikh, S. A.; Soomro, A. H.; Abro, G. H.	2014	Removal of pesticide residues from tomato and its products.	Journal of Basic and Applied Sciences (2014), Volume 10, pp. 559-565, 27 refs. ISSN: 1814-8085 DOI: 10.6000/1927-5129.2014.10.75 Published by: Lifescience Global, Mississauga	⑬
168	Golge, Ozgur; Kabak, Bulent	2015	Determination of 115 pesticide residues in oranges by high-performance liquid chromatography-triple-quadrupole mass spectrometry in combination with QuEChERS method	Journal of Food Composition and Analysis (2015), 41, 86-97	⑯d
169	Wang, Yunshen; Chen, Changshui; Cao, Xiufang; Li, Jianhong	2015	Determination of agrochemical residues in aquatic vegetables by solid-phase extraction combined with HPLC spectrometry analyses	Research on Chemical Intermediates (2015), 41(5), 2841-2853	⑤
170	Yu, Fei; Chen, Li; Pan, Lining; Hu, Bin; Liu, Huimin	2015	Determination of multi-pesticide residue in tobacco using multi-walled carbon nanotubes as a reversed-dispersive solid-phase extraction sorbent	Journal of Separation Science (2015), 38(11), 1894-1899	⑤
171	Farajzadeh, Mir Ali; Afshar Mogaddam, Mohammad Reza; Alizadeh, Ali Akbar	2015	Determination of neonicotinoid insecticide residues in edible oils by water-induced homogeneous liquid-liquid extraction and dispersive liquid-liquid extraction followed by high performance liquid chromatography-diode array detection	RSC Advances (2015), 5(95), 77501-77507	⑤
172	Tran, S. C.; Le, H. Th.; Thai-Nguyen, T. H.	2015	Determination of pesticide multi-residues in green tea using a modified QuEChERS extraction and liquid chromatography tandem mass spectrometry technique	Acta Alimentaria (2015), 44(3), 409-419	⑤
173	Skretteberg, L. G.; Lyraan, B.; Holen, B.; Jansson, A.; Fohgelberg, P.; Siivinen, K.; Andersen, J. H.; Jensen, B. H.	2015	Pesticide residues in food of plant origin from Southeast Asia - A Nordic project	Food Control (2015), 51, 225-235	⑯d
174	Basa Cesnik, Helena; Velikonja Bolta, Spela; Lisjak, Klemen	2015	Plant protection product residues in red grapes and Teran PTP wine	Food Additives and Contaminants, Part B: Surveillance (2015), 8(2), 113-122	⑯d
175	Kiris, Sevilay; Velioglu, Yakup Sedat	2015	Reduction in pesticide residue levels in olives by ozonated and tap water treatments and their transfer into olive oil	Food Additives and Contaminants, Part A (2015) Ahead of Print	⑯c
176	Saadi Abdullah; Randhawa Muhammad A; Akhtar Saeed; Mansoor-Ul-Hassan; Asghar Ali; Sohaib Muhammad; Jahangir Muhammad A	2015	Assessment of different washing treatments to mitigate imidacloprid and acetamaprid residues in spinach.	Journal of the science of food and agriculture, (2015 Dec 18) . Electronic Publication Date: 18 Dec 2015	⑬

177	Ozkan, Ali	2015	Determination of pesticide residues in some oilseeds and nuts using LC-MS/MS analysis	Fresenius Environmental Bulletin (2015), 24(2a), 615-620	⑯f
178	Palenikova, Agnesa; Martinez-Dominguez, Gerardo; Arrebola, Francisco Javier; Romero-Gonzalez, Roberto; Hrouzkova, Svetlana; Garrido Frenich, Antonia	2015	Occurrence of pesticide residues and transformation products in different types of dietary supplements	Food Additives and Contaminants, Part A: Chemistry, Analysis, Control, Exposure and Risk Assessment (2015), 32(6), 849-856	⑯d
179	Louca Christodoulou, Despo; Kanari, Popi; Kourouzidou, Olympiada; Constantinou, Maria; Hadjiloizou, Panayiota; Kika, Koula; Constantinou, Panayiotis	2015	Pesticide residues analysis in honey using ethyl acetate extraction method: validation and pilot survey in real samples	International Journal of Environmental Analytical Chemistry (2015), 95(10), 894-910	⑯d
180	Malinowska, Elzbieta; Jankowski, Kazimierz; Sosnowski, Jacek; Wisniewska-Kadzajan, Beata	2015	Pesticide residues in cereal crop grains in Poland in 2013	Environmental Monitoring and Assessment (2015), 187(6), 1-7	⑯d
181	Strucinski Pawel; Ludwicki Jan K; Goralczyk Katarzyna; Czaja Katarzyna; Hernik Agnieszka; Liszewska Monika	2015	Risk assessment for pesticides MRL non-compliances in Poland in the years 2011-2015.	Roczniki Panstwowego Zakladu Higieny, (2015) Vol. 66, No. 4, pp. 309-17.	⑯d
182	Fang, Liping; Zhang, Shuqiu; Chen, Zilei; Du, Hongxia; Zhu, Qian; Dong, Zhan; Li, Huidong	2015	Risk assessment of pesticide residues in dietary intake of celery in China	Regulatory Toxicology and Pharmacology (2015), 73(2), 578-586	⑯d
183	Dias, Jonatan V.; Cutillas, Victor; Lozano, Ana; Pizzutti, Ionara R.; Fernandez-Alba, Amadeo R.	2016	Determination of pesticides in edible oils by liquid chromatography-tandem mass spectrometry employing new generation materials for dispersive solid phase extraction clean-up	Journal of Chromatography A (2016), 1462, 8-18	⑤
184	Souza, Deise F.; Souza, Edson L.; Borges, Endler M.	2016	Determination of pesticides in grape juices by QuEChERS and liquid chromatography-tandem mass spectrometry	Journal of the Brazilian Chemical Society (2016), 27(9), 1626-1635	⑤
185	Pratheeshkumar, N.; Chandran, M.; Beevi, S. Naseema; Mathew, Thomas Biju; George, Thomas; Paul, Ambily; Xavier, George; Ravi, K. Prathibha; Kumar, S. Visal; Rajith, R.	2016	Dissipation kinetics and effect of processing on imidacloprid and its metabolites in cardamom (Elettaria cardamomum Maton)	Environmental Monitoring and Assessment (2016), 188(1), 1-14	⑤ ⑰
186	Sanchez-Hernandez, Laura; Higes, Mariano; Martin, Maria T.; Nozal, Maria J.; Bernal, Jose L.	2016	Simultaneous determination of neonicotinoid insecticides in sunflower-treated seeds (hull and kernel) by LC-MS/MS	Food Additives and Contaminants, Part A (2016), 33(3), 442-451	⑤
187	Wang, Jian; Cheung, Wendy	2016	UHPLC/ESI-MS/MS determination of 187 pesticides in wine	Journal of AOAC International (2016), 99(2), 539-557	⑤
188	Lemos, Jon; Sampedro, M. Carmen; De Arino, Amaia; Ortiz, Amaia; Barrio, Ramon J.	2016	Risk assessment of exposure to pesticides through dietary intake of vegetables typical of the Mediterranean diet in the Basque Country	Journal of Food Composition and Analysis (2016), 49, 35-41	⑯d
189	Pandit, Goutam K.; Krushna, Gharde S.; Chowdhury, Nilanjana; Ghosh, Jaydeb	2016	Dissipation of imidacloprid residues in okra leaves, fruits and soil in Northern Region of West Bengal	Pesticide Research Journal (2016), 28(1), 20-24	⑰
190	Dhiman, Megha; Suyai, Archana; Srivastava, Anjana	2016	Residue studies of bifenthrin and imidacloprid in rice crop and soil under tropical climatic region	Pestology (2016), 40(12), 50-54	⑰
191	Stamm, Mitchell D.; Heng-Moss, Tiffany M.; Baxendale, Frederick P.; Siegfried, Blair D.; Blankenship, Erin E.; Nauen, Ralf	2016	Uptake and translocation of imidacloprid, clothianidin and flupyradifurone in seed-treated soybeans	Pest Management Science (2016), 72(6), 1099-1109	⑰
192	Elgueta, Sebastian; Moyano, Stella; Sepulveda, Paulina; Quiroz, Carlos; Correa, Arturo	2017	Pesticide residues in leafy vegetables and human health risk assessment in North Central agricultural areas of Chile	Food Additives and Contaminants, Part B: Surveillance (2017), 10(2), 105-112	⑯d

193	Seifrtova, Marcela; Halesova, Tatana; Sulcova, Klara; Riddellova, Katerina; Erban, Tomas	2017	Distributions of imidacloprid, imidacloprid-olefin and imidacloprid-urea in green plant tissues and roots of rapeseed (Brassica napus) from artificially contaminated potting soil	Pest Management Science (2017), 73(5), 1010-1016	⑰
194	Lima, Viviane G.; Campos, Vania P.; Santana, Thiago C.; Santana, Franciele O.; Costa, Tadeu A. C.	2017	Determination of agrochemical multi-residues in grapes. Identification and confirmation by gas chromatography-mass spectrometry	Analytical Methods (2017), 9(40), 5880-5889	⑤
195	Bordin, A. B.; Minetto, L.; Nascimento Filho, I. Do; Beal, L. L.; Moura, S.; Do Nascimento Filho, I.	2017	Determination of pesticide residues in whole wheat flour using modified QuEChERS and LC-MS/MS.	Food Analytical Methods (2017), Volume 10, Number 1, pp. 1-9, 18 refs. ISSN: 1936-9751 DOI: 10.1007/s12161-016-0542-2 Published by: Springer, New York	⑤
196	Calatayud-Vernich, Pau; Calatayud, Fernando; Simo, Enrique; Pico, Yolanda	2017	Occurrence of pesticide residues in Spanish beeswax	Science of the Total Environment (2017), 605-606, 745-754	⑯d ⑰
197	Klatyik, Szandra; Darvas, Bela; Olah, Marianna; Mortl, Maria; Takacs, Eszter; Szekacs, Andras	2017	Pesticide residues in spice paprika and their effects on environmental and food safety	Journal of Food and Nutrition Research (Bratislava, Slovakia) (2017), 56(3), 201-218	⑧
198	Larsson, Martin Olof; Nielsen, Vibe Sloth; Brandt, Christian Orsted; Bjerre, Niels; Laporte, Frank; Cedergreen, Nina	2017	Quantifying dietary exposure to pesticide residues using spraying journal data.	Food and Chemical Toxicology, (1 Jul 2017) Vol. 105, pp. 407-428. Refs: 24 ISSN: 0278-6915; E-ISSN: 1873-6351 CODEN: FCTOD7	⑮
199	Hamid, Almas; Yaqub, Ghazala; Ahmed, Sajid Rashid; Aziz, Nida Hamid, Almas; Aziz, Nida Ahmed, Sajid Rashid	2017	Assessment of human health risk associated with the presence of pesticides in chicken eggs	FOOD SCIENCE AND TECHNOLOGY, (JUL-SEP 2017) Vol. 37, No. 3, pp. 378-382. ISSN: 0101-2061.	⑯f
200	Ahmed, Mohammed Gaafer	2017	Degradation of imidacloprid insecticide in the environment on leaves surface by sunlight	International Journal of Scientific Research in Environmental Sciences (2017), 5(1), 22-27	全文へのアクセス不可能なマレーシアの雑誌、査読不明。
201	Al Naggar, Yahya; Codling, Garry; Giesy, John P.	2017	Human dietary intake and hazard characterization for residues of neonicotinoides and organophosphorus pesticides in Egyptian honey.	Toxicological and Environmental Chemistry, (2017) Vol. 99, No. 9-10, pp. 1397-1408.	はちみつ中残留ネオニコチノイド等のADIに対する割合。
202	Saka, Machiko	2017	Studies on effect of processing and cooking on the levels of pesticide residues in the food	Shokuhin Eiseigaku Zasshi (2017), 58(1), J6-J8	⑧
203	Sabudak, Temine; Handan Dokmeci, Ayse; Atabey, Taner	2017	The determination of 167 pesticides in rice grown in Turkey	Fresenius Environmental Bulletin (2017), 26(5), 3661-3667	⑯d
204	Abdel-Ghany, Maha F.; Hussein, Lobna A.; El Azab, Noha F.	2017	Multiresidue analysis of five neonicotinoid insecticides and their primary metabolite in cucumbers and soil using high-performance liquid chromatography with diode-array detection	Journal of AOAC International (2017), 100(1), 176-188	⑤ ⑰
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447	Mgocheki, N.; Addison, P.	2015	The sublethal effects of a systemic insecticide on the vine mealybug parasitoids Anagyrus sp. near pseudococci (Girault) and Coccidoxenoides perminutus (Timberlake) (Hymenoptera: Encyrtidae)	South African Journal of Enology and Viticulture (2015), 36(1), 175-179	⑯b
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472	Thiel, Sarina; Koehler, Heinz-R.	2016	A sublethal imidacloprid concentration alters foraging and competition behaviour of ants	Ecotoxicology (2016), 25(4), 814-823	⑯b
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595	Jia, Haihong; Ma, Manli; Zhai, Na; Liu, Zhenguo; Wang, Hongfang; Guo, Xingqi; Xu, Baohua	2017	Roles of a mitochondrial AccSCO2 gene from Apis cerana cerana in oxidative stress responses	Journal of Inorganic Biochemistry (2017), 175, 9-19	⑱
596	Chevillot, Fanny; Convert, Yannice; Desrosiers, Melanie; Cadoret, Nicole; Veilleux, Eloise; Cabana, Hubert; Bellenger, Jean-Philippe	2017	Selective bioaccumulation of neonicotinoids and sub - lethal effects in the earthworm Eisenia andrei exposed to environmental concentrations in an artificial soil.; Selective bioaccumulation of neonicotinoids and sub-lethal effects in the earthworm Eisenia andrei exposed to environmental concentrations in an artificial soil.	Chemosphere, (2017) Vol. 186, pp. 839-847. Refs: 59 ISSN: 0045-6535; E-ISSN: 1879-1298 CODEN: CMSHAF	⑯b
597	Stecca, C. Dos S.; Silva, D. M. Da; Bueno, A. De F.; Pasini, A.; Denez, M. D.; Andrade, K.; De F. Bueno, A.; Da Silva, D. M.	2017	Selectivity of insecticides used in soybean crop to the predator Podisus nigrispinus (Hemiptera: Pentatomidae).	Semina: Ciencias Agrarias (Londrina) (2017), Volume 38, Number 6, pp. 3469-3480, 34 refs. ISSN: 1676-546X DOI: 10.5433/1679-0359.2017v38n6p3469 Published by: Universidade Estadual de Londrina, Londrina	⑯b
598	Qadir, Shazia; Chen, Xiwei; Wei, Wei; Feng, Fengqin; Sultan, Shahid; Kareem, Khalida; Iqbal, Furhan	2017	Short-and long-term exposure to imidacloprid disturbs the elemental composition and free amino acid profile in muscles of Labeo rohita	Comparative Clinical Pathology (2017), 26(6), 1339-1346	⑯b
599	Fiedler, Zaneta; Sosnowska, Danuta	2017	Side effects of fungicides and insecticides on entomopathogenic fungi in vitro.	Journal of Plant Protection Research, (2017) Vol. 57, No. 4, pp. 355-360. ISSN: 1427-4345. E-ISSN: 1899-007X.	⑯b
600	Cavallaro, Michael C.; Liber, Karsten; Headley, John V.; Peru, Kerry M.; Morrissey, Christy A.	2018	Community-level and phenological responses of emerging aquatic insects exposed to 3 neonicotinoid insecticides: An in situ wetland limnocorral approach	Environmental Toxicology and Chemistry (2018) Ahead of Print	⑱limnocorralを用いてユスリカ等への影響を調べている。
601	Kakati, Nilakshi; Dutta, P.; Das, P.; Nath, P. D.	2018	Compatibility of entomopathogenous fungi with commonly used insecticides for management of banana aphid transmitting Banana bunchy Top virus (BBTV) in Assam banana production system	International Journal of Current Microbiology and Applied Sciences (2018), 7(11), 2507-2513	⑯b
602	Karahan, A.; Kutlu, M. A.; Karaca, I.	2018	Determination of the effect of some pesticides on honey bees .	International Journal of Agriculture, Environment and Food Sciences (2018) , Volume 2, Number 3, pp. 104-108, 42 refs. ISSN: 2618-5946 Published by: Gultekin Ozdemir, Diyarbakir	製剤を実使用濃度に希釈後、2Mショ糖溶液に希釈して経口投与、ショ糖溶液中での有効成分濃度が不明なため、ミツバチ1頭当たりの有効成分量が不明。投与後の行動観察、24時間まで。LD50等報告されず。
603	Kang Zhi-Wei; Liu Fang-Hua; Pang Rui-Ping; Tian Hong-Gang; Liu Tong-Xian	2018	Effect of Sublethal Doses of Imidacloprid on the Biological Performance of Aphid Endoparasitoid Aphidius gifuensis (Hymenoptera: Aphidiidae) and Influence on Its Related Gene Expression.	Frontiers in physiology, (2018) Vol. 9, pp. 1729. Electronic Publication Date: 11 Dec 2018	⑯b

604	Telangre, Ah; Matre, Yb; Latpate, Cb; Zanwar, Pr	2018	Effect of neonicotinoids i.e acetamiprid 20 percent SP on foraging behaviour of honey bee on safflower (Carthamus tinctorius L.)	International Journal of Chemical Studies (2018), 6(5Pt.D), 185-188	適切に評価できる試験系で実施されていない
605	Matre, Yb; Telangre, Ah; Latpate, Cb; Zanwar, Pr	2018	Effect of neonicotinoids i.e. imidacloprid 17.8 percent SL on foraging behaviour of honey bee on safflower (Carthamus tinctorius L.)	International Journal of Chemical Studies (2018), 6(5Pt.A), 05-8	適切に評価できる試験系で実施されていない
606	Chowbay Munesh; Sirpaul, J.; Abdullah, A.; Munesh, C.	2018	Effects of alpha cypermethrin and Imidacloprid on soil bacteria in pot experiments of rice (Oryza sativa var. G 98-135) using soil collected from rice fields (Mahaica, Guyana).	Current Advances in Agricultural Sciences (2018), Volume 10, Number 1, pp. 10-18 ISSN: 0975-2315 DOI: 10.5958/2394-4471.2018.00001.1 Published by: C S Azad University of Agriculture and Technology, Kanpur	⑯b
607	Lee-Jenkins, Stacey S. Y.; Robinson, Stacey A.	2018	Effects of neonicotinoids on putative escape behavior of juvenile wood frogs (Lithobates sylvaticus) chronically exposed as tadpoles	Environmental Toxicology and Chemistry (2018) Ahead of Print	⑯b
608	Tong Zhou; Duan Jinsheng; Wu Yancan; Liu Qiongqiong; He Qibao; Shi Yanhong; Yu Linsheng; Cao Haiqun	2018	Evaluation of Highly Detectable Pesticides Sprayed in Brassica napus L.: Degradation Behavior and Risk Assessment for Honeybees .	Molecules (Basel, Switzerland), (2018 Sep 27) Vol. 23, No. 10. Electronic Publication Date: 27 Sep 2018	⑭
609	Padmaja, B.; Vivek, C. H.; Usha Rani, K.; Veeraiah, K.	2018	Evaluation of an acute oral gavage method for assessment of imidacloprid toxicity in terrestrial amphibian Hoplobatrachus tigerinus	European Journal of Biomedical and Pharmaceutical Sciences (2018), 5(7), 1-6	①
610	Sravanthi Guntupalli; Kalyanasundaram, M.; Guntupalli, S.	2018	Evaluation of toxicity of insecticides against Mallada boninensis (Okamato).	Indian Journal of Entomology (2018), Volume 80, Number 3, pp. 1153-1155, 19 refs. ISSN: 0367-8288 DOI: 10.5958/0974-8172.2018.00124.4 Published by: Entomological Society of India, New Delhi	⑯b
611	Valverde, Silvia; Ares, Ana Maria; Bernal, Jose Luis; Nozal, Maria Jesus; Bernal, Jose	2018	Fast determination of neonicotinoid insecticides in beeswax by ultra-high performance liquid chromatography-tandem mass spectrometry using an enhanced matrix removal-lipid sorbent for clean-up	Microchemical Journal (2018), 142, 70-77	⑤
612	Singh, Vinay; Sood, A. K.	2018	First record of Encarsia formosa Gahan, an aphelinid parasitoid of greenhouse whitefly from India and its dynamics on tomato grown under protected environment.	Journal of Biological Control, (MAR 2018) Vol. 32, No. 1, pp. 1-7. ISSN: 0971-930X. E-ISSN: 0970-5732.	⑯b
613	Bhavya Mishra; Singh, R. P.; Mishra, B.	2018	In vitro studies on the effect of insecticides on the growth of fungal pathogen Stemphylium vesicarium (Wallr.) Simmons.	International Journal of Bio-resource and Stress Management (2018) , Volume 9, Number 4, pp. 527-530, 11 refs. ISSN: 0976-3988 DOI: 10.23910/ijbsm/2018.9.4.1883 Published by: Puspa Publishing House, Kolkata	⑯b
614	Badawy, Mohamed H.; Ahmed, Nabila S.; Attia, Ahmed Morsi	2018	Sub - acute oral toxicity of Imidacloprid and Fipronil pesticide mixture in male albino rats ; biochemical and reproductive toxicity evaluation	Journal of Materials and Environmental Science (2018), 9(8), 2431-2437	⑯c
615	Jam, Neda Amini; Saber, Moosa	2018	Sublethal effects of imidacloprid and pymetrozine on the functional response of the aphid parasitoid, Lysiphlebus fabarum	Entomologia Generalis (1 Dec 2018) Volume 38, Number 2, pp. 173-190, 83 refs. CODEN: ENGND5 ISSN: 0171-8177 DOI: 10.1127/entomologia/2018/0734 Published by: E. Schweizerbartsche Verlagsbuchhandlung,	⑯b

616	Akoijam, Romila; Singh, Telem Ratan; Singh, Akoijam Somorjit; Singh, Bawinder; Gupta, V. K.	2018	The Degradation Capability of Bacillus alkalinitrilicus for Imidacloprid Bioremediation in Soil.	Pesticide Research Journal, (JUN 2018) Vol. 30, No. 1, pp. 37-44. ISSN: 0970-6763. E-ISSN: 2249-524X.	⑱
617	Rigosi, Elisa; Ocarroll, David C.	2018	The cholinergic pesticide imidacloprid impairs contrast and direction sensitivity in motion detecting neurons of an insect pollinator	bioRxiv, Neuroscience (2018) 1-28, 2018	⑱
618	Demirci, Oe.	2018	The evaluation of acute toxic effect of imidacloprid and acetamiprid on Gammarus kischineffensis (Amphipoda : Crustacea). Imidakloprit ve asetamipritin Gammarus kischineffensis (Amphipoda : Crustacea) uezerine akut toksik etkisinin degerlendirilmesi.	Journal of the Institute of Science and Technology (2018) , Volume 8, Number 3, pp. 85-92, many ref. ISSN: 2146-0574 Published by: Igdir University, Igdir	⑲
619	Chen Xuedong; Johnson, D. L.; Stark, J. D.; Kawchuk, L.; Jaronski, S.; Chen, X. D.	2018	Toxicity of biopesticide candidate Metarhizium anisopliae var anisopliae S54, neonicotinoid imidacloprid , neem extract (Azatin), and agricultural adjuvant R-11 on the Crustacean Ceriodaphnia dubia Richard.	Biopesticides International (2018) , Volume 14, Number 2, pp. 71-77, 34 refs. ISSN: 0973-483X Published by: Connect Journals, Ghaziabad	⑯b
620	Souza, E. P. De; Degrande, P. E.; Azambuja, R.; Silva, R. A. Da; Alves Junior, V. V.; De Souza, E. P.; Da Silva, R. A.	2018	Toxicity of insecticide-contaminated soil used in the treatment of cotton seeds to bees .	Journal of Agricultural Science (Toronto) (2018) , Volume 10, Number 10, pp. 189-196, 19 refs. ISSN: 1916-9752 DOI: 10.5539/jas.v10n10p189 Published by: Canadian Center of Science and Education, Toronto	⑱
621	Wanumen, A.; Dader, B.; Vinuela, E.; Medina, P.; Azpiazu, C.; Moreno, A.; Morales, I.; Adan, A.	2018	Toxicity of modern insecticides to predatory myrids. Toxicidad de modernos insecticidas en miridos depredadores. ?Son comparables los resultados entre especies y/o insecticidas?	Agricola Vergel: Fruticultura, Horticultura, Floricultura, Citricultura, Vid, Arroz (2018) , Number 408, pp. 76-79 ISSN: 0211-2728 Published by: Ediciones y Promociones L.A.V., Valencia	⑯b
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623	Schenke Detlef; Wirtz Ina Patrizia; Lorenz Stefan; Pistorius Jens; Heimbach Udo	2018	Two-year field data on neonicotinoid concentrations in guttation drops of seed treated maize (Zea mays).	Data in brief, (2018 Dec) Vol. 21, pp. 299-306. Electronic Publication Date: 4 Oct 2018	⑱
624	Mohd Fawwaz, M. R.; Shahrem Md Ramli; Abdul Hafiz, A. M.	2018	Leaching of termiticides containing bifenthrin, fipronil and imidacloprid in different types of soils under laboratory conditions.	Malaysian Journal of Soil Science (2018), Volume 22, pp. 77-92, many ref. ISSN: 1394-7990 Published by: Malaysian Society of Soil Science, Selangor	⑱
625	Attademo, Andres Maximiliano; Tamburi, Nicolas Eduardo; Peltzer, Paola Mariela; Lajmanovich, Rafael Carlos; Martinuzzi, Candela	2018	Metabolic stress and shell thinning in Pomacea canaliculata (Caenogastropoda, ampullaridae) in rice agroecosystems of Argentina.	Current Trends in Immunology, (2018) Vol. 14, pp. 53-65. Refs: 75 ISSN: 0972-4567	④
626	Patel, H. Anjali; Shinde, C. U.; Hiral, N. Patel	2018	Relative toxicity of selected insecticides against ladybird beetle, Propylea sp. under laboratory conditions	International Journal of Current Microbiology and Applied Sciences (2018), 7(9), 640-644	⑯b
627	Feltrin-Campos, E.; Fernandes, M. G.; Masson, G. De L.; Correa, T. A.; Grigolli, J. F. J.; De L. Masson, G.	2018	Selectivity of insecticides against Telenomus podisi Ashmead (Hymenoptera: Platygastridae) on corn.	Journal of Agricultural Science (Toronto) (2018) , Volume 10, Number 12, pp. 185-191, 31 refs. ISSN: 1916-9752 DOI: 10.5539/jas.v10n12p185 Published by: Canadian Center of Science and Education, Toronto	⑯b

628	Salerno, Joseph; Bennett, Charles J.; Holman, Emily; Gillis, Patricia L.; Sibley, Paul K.; Prosser, Ryan S.	2018	Sensitivity of multiple life stages of 2 freshwater mussel species (Unionidae) to various pesticides detected in Ontario (Canada) surface waters	Environmental Toxicology and Chemistry (2018) Ahead of Print	⑯b
629	Muhammad Imran; Tayyaba Naseem; Arshad Iqbal; Khalid Mahmood; Sheikh, U. A. A.	2018	Assessment of sensitivity level of honeybee (Apis mellifera) to neonicotinoid insecticides.	Asian Journal of Agriculture and Biology (2018) , Volume 6, Number 3, pp. 327-334, 33 refs. ISSN: 2307-8553 Published by: Life Sciences Society of Pakistan, Islamabad	経口投与の試験系は成立するが、結果の評価でミツバチ1頭当たりの量が不明。接触はろ紙接触法で不適切
630	Curkovic, T.; Santibanez, D.; Araya, J. E.; Contreras, A.	2018	Attraction of Vespula germanica workers to protein baits mixed with insecticides.	Chilean Journal of Agricultural and Animal Sciences, ex Agro-Ciencia (2018) , Volume 34, Number 3, pp. 199-204, 32 refs. ISSN: 0719-3882 Published by: Ediciones Universidad de Concepcion, Chillan	ベイト剤の誘因効果
631	Manning, Rob Manning, Rob	2018	Chemical residues in beebread, honey, pollen and wax samples collected from bee hives placed on canola crops in Western Australia	JOURNAL OF APICULTURAL RESEARCH, (20 OCT 2018) Vol. 57, No. 5, pp. 696-708. ISSN: 0021-8839.	日本では登録されていない使用法。豪州の種子処理菜種圃場でのミツバチ生産物(ハチミツ等)への農薬の残留
632	Papadakis, Emmanouil-Nikolaos; Tsaboula, Aggeliki; Vryzas, Zisis; Kotopoulou, Athina; Kintzikoglou, Katerina; Papadopoulou-Mourkidou, Euphemia	2018	Pesticides in the rivers and streams of two river basins in northern Greece	Science of the Total Environment (2018), 624, 732-743	⑱
633	Tosi, Simone; Costa, Cecilia; Vesco, Umberto; Quaglia, Giancarlo; Guido, Giovanni	2018	A 3-year survey of Italian honey bee -collected pollen reveals widespread contamination by agricultural pesticides	Science of the Total Environment (2018), 615, 208-218	イタリアにおける花粉中農薬残留量モニタリング。イミダクロプリドは検出されているが、処理条件等不明。評価法は残留値をLD50で除しているのみ。
634	Afifa Amjad	2018	A review of imidacloprid toxicity in coccinellids	Arthropods, Vol. 7, No. 1, pp. 1-10, 20180301 E-ISSN: 2224-4255 Published by: International Academy of Ecology and Environmental Sciences (IAEES), Hong Kong	⑯b
635	Sousa, Joao C. G.; Ribeiro, Ana R.; Barbosa, Marta O.; Pereira, M. Fernando R.; Silva, Adrian M. T.	2018	A review on environmental monitoring of water organic pollutants identified by EU guidelines	Journal of Hazardous Materials (2018), 344, 146-162	⑰
636	Tong, Zhou; Duan, Jinsheng; Wu, Yancan; Liu, Qiongqiong; He, Qibao; Shi, Yanhong; Yu, Linsheng; Cao, Haiqun	2018	A survey of multiple pesticide residues in pollen and beebread collected in China	Science of the Total Environment (2018), 640-641, 1578-1586	⑰
637	Shahid, Naeem; Becker, Jeremias Martin; Krauss, Martin; Brack, Werner; Liess, Matthias	2018	Adaptation of Gammarus pulex to agricultural insecticide contamination in streams	Science of the Total Environment (2018), 621, 479-485	イミダクロプリドに関して、評価に用いられるエンドポイントが得られていない
638	Babic, Sanja; Barisic, Josip; Stipanicev, Drazenka; Repec, Sinisa; Lovric, Mario; Malev, Olga; Martinovic-Weigelt, Dalma; Coz-Rakovac, Rozelindra; Klobucar, Goran	2018	Assessment of river sediment toxicity: Combining empirical zebrafish embryotoxicity testing with in silico toxicity characterization	Science of the Total Environment (2018), 643, 435-450	⑱
639	Khan, A. A.; Shazia Riyaz; Riyaz, S.	2018	Bioefficacy of pesticides against green apple aphid Aphis pomi De Geer and biosafety to natural enemies in apple orchards.	Indian Journal of Entomology (2018), Volume 80, Number 2, pp. 315-319, 10 refs. ISSN: 0367-8288 DOI: 10.5958/0974-8172.2018.00049.4 Published by: Entomological Society of India, New Delhi	⑯b

640	Maloney, E. M.; Morrissey, C. A.; Headley, J. V.; Peru, K. M.; Liber, K.	2018	Can chronic exposure to imidacloprid , clothianidin, and thiamethoxam mixtures exert greater than additive toxicity in Chironomus dilutus?	Ecotoxicology and Environmental Safety (2018), 156, 354-365	⑱
641	Anderson, Brian S.; Phillips, Bryn M.; Voorhees, Jennifer P.; Deng, Xin; Geraci, Jeff; Worcester, Karen; Tjeerdema, Ron S.	2018	Changing patterns in water toxicity associated with current use pesticides in three California agriculture regions	Integrated Environmental Assessment and Management (2018), 14(2), 270-281	ユスリカ及びヨコエビの毒性試験を実施しているが、複数の農薬を含むサンプリング水を用いており、イミダクロプリドのみによる毒性を把握することは困難
642	Franco Da Silva, Micaele Aparecida; De Moura, Karina Elaine; De Moura, Kamila Ellen; Salomao, Denise; Alves Patricio, Flavia Rodrigues	2018	Compatibility of Trichoderma isolates with pesticides used in lettuce crop.	Summa Phytopathologica, (APR-JUN 2018) Vol. 44, No. 2, pp. 137-142.	⑯b
643	Sievers, Michael; Hale, Robin; Swearer, Stephen E.; Parris, Kirsten M.	2018	Contaminant mixtures interact to impair predator-avoidance behaviours and survival in a larval amphibian	Ecotoxicology and Environmental Safety (2018), 161, 482-488	⑯b
644	Muli, Elliud; Kilonzo, Joseph; Dogley, Norman; Monthy, Gerald; Kurgat, Justus; Irungu, Janet; Raina, Suresh	2018	Detection of Pesticide Residues in Selected Bee Products of Honeybees (Apis melllifera L.) Colonies in a Preliminary Study from Seychelles Archipelago.	Bulletin of Environmental Contamination and Toxicology, (OCT 2018) Vol. 101, No. 4, pp. 451-457.	⑰
645	Aqsa Sattar; Iqra Azam; Sarwar, M. K.; Afifa Amjad; Malik, M. F.	2018	Effect of insecticides on Coccinella septempunctata (Coleoptera; Coccinellidae); a review.	Asian Journal of Agriculture and Biology (2018) , Volume 6, Number 1, pp. 125-134, many ref. ISSN: 2307-8553 Published by: Life Sciences Society of Pakistan, Islamabad	⑯b
646	Lyons, M.; Mackeigan, K.; Fairchild, W. L.; Burridge, L. E.	2018	Effects of 4-nonylphenol and formulations of five pesticides: cypermethrin, deltamethrin, glyphosate, imidacloprid and mancozeb on growth of Atlantic salmon (Salmo salar L.) during parr-smolt transformation.	Canadian Technical Report of Fisheries and Aquatic Sciences, (2018) Vol. 3265, pp. 1-42,V.	⑭
647	Sposito, Juliana C. V.; Montagner, Cassiana C.; Casado, Marta; Navarro-Martin, Laia; Jut Solorzano, Julio Cesar; Pina, Benjamin; Grisolia, Alexeia B.	2018	Emerging contaminants in Brazilian rivers: Occurrence and effects on gene expression in zebrafish (Danio rerio) embryos	Chemosphere (2018), 209, 696-704	⑱
648	Misra, H. P.; Sahu, G. S.	2018	Field efficacy of Tolfenpyrad 15 EC against thrips, Thrips palmi Karny on cucumber.	Annals of Plant Protection Sciences (2018) , Volume 26, Number 1, pp. 21-24, 9 refs. ISSN: 0971-3573 DOI: 10.5958/0974-0163.2018.00005.8 Published by: Society of Plant Protection Sciences, New Delhi	⑯b
649	Debashis Roy; Sarkar, P. K.; Sukamal Sarkar; Roy, D.; Sarkar, S.	2018	Field efficacy, non-target toxicity and economics of novel systemic molecules against Lipaphis erysimi and its seasonal incidence in mustard.	Indian Journal of Entomology (2018), Volume 80, Number 2, pp. 217-225, 26 refs. ISSN: 0367-8288 DOI: 10.5958/0974-8172.2018.00036.6 Published by: Entomological Society of India, New Delhi	⑯b
650	Shinde, Cu; Radadia, Gg	2018	Field-persistent toxicity of various insecticides against potent predator, Cheilomenes sexmaculata (F.)	International Journal of Chemical Studies (2018), 6(1Pt.B), 87-91	⑯b
651	Nayak, Sudhanshu Bala; Seni, Atanu; Vinay, Bk	2018	Genetic improvement of egg parasitoid Trichogramma chilonis (Hymenoptera: Trichogrammatidae) by artificial selection	International Journal of Chemical Studies (2018), 6(2Pt.AK), 1-4	⑯b

652	Morrison Lucas M; Renaud Justin B; Sabourin Lyne; Sumarah Mark W; Yeung Ken K C; Lapen David R	2018	High-Throughput Quantitation of Neonicotinoids in Lyophilized Surface Water by LC-APCI-MS/MS.	Journal of AOAC International, (2018 May 21) . Electronic Publication Date: 21 May 2018	⑤
653	Sappington, James D.	2018	Imidacloprid alters ant sociobehavioral traits at environmentally relevant concentrations	Ecotoxicology (2018) Ahead of Print	⑯b
654	Mohammed, Abd Allah A. H.; Desneux, Nicolas; Fan, Yinjun; Han, Peng; Ali, Abid; Song, Dunlun; Gao, Xi-Wu	2018	Impact of imidacloprid and natural enemies on cereal aphids: Integration or ecosystem service disruption?.	Entomologia Generalis, (2018) Vol. 37, No. 1, pp. 47-61. ISSN: 0171-8177. E-ISSN: 2363-7102.	⑯b
655	Mengoni Gonalons Carolina; Farina Walter M	2018	Impaired associative learning after chronic exposure to pesticides in young adult honey bees .	The Journal of experimental biology, (2018 Apr 11) Vol. 221, No. Pt 7. Electronic Publication Date: 11 Apr 2018	⑱
656	Shakeel, Muhammad; Riaz, Muhammad; Wang, Yong	2018	In vitro analysis of toxic potential of systemic and contact insecticides on Phenacoccus solenopsis and its parasitoid Aenasius species	International Journal of Biosciences (2018), 12(4), 151-157	⑯b
657	Challis, Jonathan K.; Cuscito, Leah D.; Joudan, Shira; Luong, Kim H.; Knapp, Charles W.; Hanson, Mark L.; Wong, Charles S.	2018	Inputs, source apportionment, and transboundary transport of pesticides and other polar organic contaminants along the lower Red River, Manitoba, Canada	Science of the Total Environment (2018), 635, 803-816	⑰
658	Munz, Nicole A.; Fu, Qiuguo; Stamm, Christian; Hollender, Juliane	2018	Internal Concentrations in Gammarids Reveal Increased Risk of Organic Micropollutants in Wastewater-Impacted Streams	Environmental Science and Technology (2018), 52(18), 10347-10358	⑱(複数の物質の水中モニタリングとヨコエビ類での濃縮)
659	Barbosa, Marta O.; Ribeiro, Ana R.; Ratola, Nuno; Hain, Ethan; Homem, Vera; Pereira, M. Fernando R.; Blaney, Lee; Silva, Adrian M. T.	2018	Spatial and seasonal occurrence of micropollutants in four Portuguese rivers and a case study for fluorescence excitation-emission matrices	Science of the Total Environment (2018), 644, 1128-1140	⑰
660	Tarek, H.; Hamiduzzaman, M. M.; Morfin, N.; Guzman-Novoa, E.	2018	Sub - lethal doses of neonicotinoid and carbamate insecticides reduce the lifespan and alter the expression of immune health and detoxification related genes of honey bees (Apis mellifera).	Genetics and Molecular Research (2018) , Volume 17, Number 2, 16039908 p., many ref. ISSN: 1676-5680 DOI: 10.4238/gmr16039908 Published by: FUNPEC	LD5相当量を投与した場合の影響を調査しており、評価に用いられるエンドポイント(死亡)が得られていない
661	Menon, Manjula; Mohanraj, R.	2018	Toxicity of Neonicotinoid Pesticide Imidacloprid and Impediment of Ecosystem Services.	Russian Agricultural Sciences, (MAR 2018) Vol. 44, No. 2, pp. 171-176. ISSN: 1068-3674. E-ISSN: 1934-8037.	⑨
662	Zantedeschi, Ronaldo; Rakes, Matheus; Pasini, Rafael Antonio; Araujo, Mikael Bolke; Bueno, Flavio Amaral; Grutzmacher, Anderson Dionei	2018	Toxicity of soybean-registered agrochemicals to Telenomus podisi and Trissolcus basalis immature stages	Phytoparasitica (2018), 46(2), 203-212	⑯b
663	Kudlek, Edyta	2018	Toxicological analysis of water mixtures of organic micropollutants subjected to UV irradiation	E3S Web of Conferences, Vol. 44, 20180101 E-ISSN: 2267-1242 DOI: 10.1051/e3sconf/20184400084 Published by: EDP Sciences, Les Ulis	⑱
664	Bridi, Raquel; Larena, Arturo; Pizarro, Paula Nunez; Giordano, Ady; Montenegro, Gloria	2018	LC-MS/MS analysis of neonicotinoid insecticides: residue findings in chilean honeys	Ciencia e Agrotecnologia (2018), 42(1), 51-57	⑰
665	Whitehorn, Penelope R.; Norville, George; Gilburn, Andre; Goulson, Dave	2018	Larval exposure to the neonicotinoid imidacloprid impacts adult size in the farmland butterfly Pieris brassicae	PeerJ (2018) e4772/1-e4772/15	⑯b
666	Perez-Aguilar, Daniel Alberto; Soares, Marianne Araujo; Passos, Luis Clepf; Martinez, Ana Mabel; Pineda, Samuel; Carvalho, Geraldo Andrade	2018	Lethal and sublethal effects of insecticides on Engytatus varians (Heteroptera: Miridae), a predator of Tuta absoluta (Lepidoptera: Gelechiidae)	Ecotoxicology (2018), 27(6), 719-728	⑯b

667	Morales, Sinue I.; Martinez, Ana M.; Vinuela, Elisa; Chavarrieta, Juan M.; Figueroa, Jose I.; Schneider, Marcela I.; Tamayo, Fernando; Pineda, Samuel	2018	Lethal and sublethal effects on Tamarixia triozae (Hymenoptera: Eulophidae), an ectoparasitoid of Bactericera cockerelli (Hemiptera: Triozidae), of three insecticides used on solanaceous crops	Journal of Economic Entomology (2018), 111(3), 1048-1055	⑯b
668	Macdonald Amanda M; Jardine Claire M; Thomas Philippe J; Nemeth Nicole M	2018	Neonicotinoid detection in wild turkeys (Meleagris gallopavo silvestris) in Ontario, Canada.	Environmental science and pollution research international, (2018 Apr 27) . Electronic Publication Date: 27 Apr 2018	⑰
669	Maloney, E. M.; Liber, K.; Headley, J. V.; Peru, K. M.; Morrissey, C. A.	2018	Neonicotinoid insecticide mixtures: Evaluation of laboratory-based toxicity predictions under semi-controlled field conditions	Environmental Pollution (Oxford, United Kingdom) (2018), 243(Part_B), 1727-1739	⑱
670	Codling, Garry; Naggar, Yahya Al; Giesy, John P.; Robertson, Albert J.	2018	Neonicotinoid insecticides in pollen, honey and adult bees in colonies of the European honey bee (Apis mellifera L.) in Egypt	Ecotoxicology (2018), 27(2), 122-131	⑰
671	Demares, Fabien J.; Pirk, Christian W. W.; Nicolson, Susan W.; Human, Hannelie	2018	Neonicotinoids decrease sucrose responsiveness of honey bees at first contact	Journal of Insect Physiology (2018), 108, 25-30	日本の評価に用いられるエンドポイント(死亡)が得られていない
672	Shahid, Naeem; Becker, Jeremias Martin; Krauss, Martin; Brack, Werner; Liess, Matthias	2018	Pesticide Body Burden of the Crustacean Gammarus pulex as a Measure of Toxic Pressure in Agricultural Streams	Environmental Science and Technology (2018), 52(14), 7823-7832	⑱
673	Beyer, Marco; Lenouvel, Audrey; Guignard, Cedric; Eickermann, Michael; Clermont, Antoine; Kraus, Francois; Hoffmann, Lucien	2018	Pesticide residue profiles in bee bread and pollen samples and the survival of honeybee colonies-a case study from Luxembourg	Environmental Science and Pollution Research (2018) Ahead of Print	⑰
674	Gooley Zuyi C; Gooley Aaron C; Fell Richard D	2018	Relationship of Landscape Type on Neonicotinoid Insecticide Exposure Risks to Honey Bee Colonies: A Statewide Survey.	Journal of economic entomology, (2018 Sep 25) . Electronic Publication Date: 25 Sep 2018	⑰
675	Bhojani, D. V.; Desai, H. R.; Shinde, C. U.; Bhanderi, G. R.	2018	Relative toxicity of commonly used insecticides and combination products in cotton ecosystem to Chrysoperla zastrowi sillemi (Esben-Peterson) under laboratory condition	International Journal of Current Microbiology and Applied Sciences (2018), 7(1), 1-11	⑯b
676	Sanghani, Nirali J.; Bhanderi, G. R.; Desai, H. R.	2018	Relative toxicity of commonly used pesticides to different stages of predator Cheilomenes sexmaculata (Fabricius) in cotton.	Entomon, (MAR 2018) Vol. 43, No. 1, pp. 67-70.	⑯b
677	Bonneris Emmanuelle; Gao Zhenglei; Prosser Amanda; Barfknecht Ralf	2018	Selecting appropriate focal species for assessing the risk to birds from newly drilled pesticide-treated winter cereal fields in France.	Integrated environmental assessment and management, (2018 Dec 04) . Electronic Publication Date: 4 Dec 2018	⑱(イミダクロプリド処理圃場における鳥のサーベイ)
678	Valente, Ellen Carine Neves; Broglio, Sonia Maria Forti; Da Silva Dias-Pini, Nivia; Micheletti, Ligia Broglio; De Lima, Andre Sueldo Tavares; Barbosa, Tiago	2018	Selectivity of Pesticides to Egg Parasitoid in Sugarcane	Sugar Tech (2018) Ahead of Print	⑯b
679	Muslim, Mohammad; Ansari, M. Shafiq; Hasan, Fazil	2018	Non-target toxicity of synthetic insecticides on the biological performance and population growth of Bracon hebetor Say	Ecotoxicology (2018), 27(7), 1019-1031	⑯b
680	Goulson, Dave; Thompson, Jack; Croombs, Amy	2018	Rapid rise in toxic load for bees revealed by analysis of pesticide use in Great Britain	PeerJ PrePrints, 20180415 E-ISSN: 2167-9843 DOI: 10.7287/peerj.preprints.26856v1 Published by: PeerJ, Inc., San Diego	⑨

681	Martinez-Ferrer, Maria Teresa; Campos-Rivela, Jose Miguel; Hernando-Guil, Maria Dolores; Garcia-Valcarcel, Ana Isabel	2019	Evaluation of residue levels of imidacloprid and thiamethoxam after foliar application to the citrus varieties lane late, valencia late, rohde summer, and nules	Journal of Economic Entomology (2019), 112(6), 2676-2685	かんきつの開花前に散布して花粉、花蜜の残留を調べているが、日本の代表的な使用方法／使用条件における評価に活用できない。
682	Bartlett, Adrienne J.; Hedges, Amanda M.; Intini, Kyna D.; Brown, Lisa R.; Maisonneuve, France J.; Robinson, Stacey A.; Gillis, Patricia L.; De Solla, Shane R.	2019	Acute and chronic toxicity of neonicotinoid and butenolide insecticides to the freshwater amphipod, Hyalella azteca	Ecotoxicology and Environmental Safety (2019), 175, 215-223	ヨコエビの急性及び慢性試験であるが、急性試験が7日間で行われており、ガイドラインの4日間の試験期間と異なる。試験温度が25℃であり、ガイドラインの18～23℃を外れているが、対照群の死亡率は妥当性基準を満たしている。
683	Hano, Takeshi; Ito, Katsutoshi; Ohkubo, Nobuyuki; Sakaji, Hideo; Watanabe, Akio; Takashima, Kei; Sato, Taku; Sugaya, Takuma; Matsuki, Kosuke; Onduka, Toshimitsu; Ito, Mana; Somiya, Rei; Mochida, Kazuhiko	2019	Occurrence of neonicotinoids and fipronil in estuaries and their potential risks to aquatic invertebrates	Environmental Pollution (Oxford, United Kingdom) (2019), 252(Part_A), 205-215	甲殻類への影響を調べているが、試験種が適切ではない。
684	Yadav, Deependra Singh; Ranade, Yogita; Mhaske, Sagar; Ghule, Shashikant	2019	Compatibility of insecticides with Metarhizium brunneum (Petch) and Beauveria bassiana (Bals.) for bio-intensive management of pink mealybug, Maconellicoccus hirsutus (Green) in grapes	Journal of Biological Control (2019), 33(3), 253-263	⑯b
685	Cook Steven C	2019	Compound and Dose-Dependent Effects of Two Neonicotinoid Pesticides on Honey Bee (Apis mellifera) Metabolic Physiology.	Insects, (2019 Jan 08) Vol. 10, No. 1. Electronic Publication Date: 8 Jan 2019	⑱(セイヨウミツバチの生理学液状態への影響) 用量設定段階不足
686	Dupraz, Valentin; Stachowski-Haberkorn, Sabine; Wicquart, Jeremy; Tapie, Nathalie; Budzinski, Helene; Akcha, Farida	2019	Demonstrating the need for chemical exposure characterisation in a microplate test system: toxicity screening of sixteen pesticides on two marine microalgae	Chemosphere (2019), 221, 278-291	⑯b
687	Machete, M.; Shadung, J. M.	2019	Detection of selected agricultural pesticides in river and tap water in Letsitele, Lomati and Vals-Renoster catchments, South Africa.	Water SA (Pretoria), (OCT 2019) Vol. 45, No. 4, pp. 716-720.	海外モニタリングであり、日本における評価に利用できない。
688	Bhattacherjee, A. K.; Shukla, P. K.; Abhay Dikshit; Dikshit, A.	2019	Dissipation of imidacloprid residues in mango orchard soil quantified by HPLC.	Journal of Eco-friendly Agriculture (2019), Volume 14, Number 2, pp. 50-53, 21 refs. ISSN: 2229-628X Published by: Doctors Agricultural and Horticultural Development Society, Luknow	日本の代表的な使用方法／使用条件における評価に活用できない文献（ほ場条件、土性等）
689	Muhammad Imran; Sheikh, U. A. A.; Nasir, M.; Ghaffar, M. A.; Ansa Tamkeen; Iqbal, M. A.	2019	Do neonicotinoid insecticides impaired olfactory learning behavior in Apis mellifera?.	International Journal of Industrial Entomology (2019), Volume 38, Number 1, pp. 1-5, 26 refs. ISSN: 1598-3579 DOI: 10.7852/ijie.2019.38.1.1 Published by: Korean Society of Sericultural Science, Suwon	⑱
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691	Feng, Wen-Bin; Bong, Lee-Jin; Dai, Shu-Mei; Neoh, Kok-Boon	2019	Effect of imidacloprid exposure on life history traits in the agricultural generalist predator Paederus beetle: Lack of fitness cost but strong hormetic effect and skewed sex ratio	Ecotoxicology and Environmental Safety (2019), 174, 390-400	⑯b
692	Manva, F. S.; Patel, H. K.; Vyas, R. V.	2019	Effect of insecticides, fungicides and herbicides on biofertilizer bacteria and their consortium	International Journal of Current Microbiology and Applied Sciences (2019), 8(6), 691-699	⑯b
693	Afza, Rahat; Afzal, Muhammad; Majeed, Muhammad Zeeshan; Riaz, Muhammad Asam	2019	Effect of intra-guild predation and sub lethal concentrations of insecticides on the predation of coccinellids	Pakistan Journal of Zoology (2019), 51(2), 611-617	⑯b
694	Berheim, Elise Hughes; Jenks, Jonathan A.; Lundgren, Jonathan G.; Michel, Eric S.; Grove, Daniel; Jensen, William F.	2019	Effects of Neonicotinoid Insecticides on Physiology and Reproductive Characteristics of Captive Female and Fawn White-tailed Deer.	Scientific Reports, (MAR 14 2019) Vol. 9, pp. Article No.: 4534. E-ISSN: 2045-2322.	⑯b
695	Lima-Fernandes, Eva; Bundschuh, Mirco; Bakanov, Nikita; Englert, Dominic; Schulz, Ralf; Schaefer, Ralf B.	2019	Effects of a Systemic Pesticide Along an Aquatic Tri-Trophic Food Chain	Bulletin of Environmental Contamination and Toxicology (2019), 103(4), 507-514	⑱
696	Ramos, G. S.; Paulo, P. D. De; Toledo, P. F. S.; Haddi, K.; Zanuncio, J. C.; Oliveira, E. E.; De Paulo, P. D. Editor(S): Oliveira, E. E.	2019	Effects of imidacloprid-sodium chloride association on survival and reproduction of the stink bug Podisus nigrispinus. 50 years special edition.	Revista de Ciencias Agricolas (2019), Volume 36, Number E, pp. 71-81, 41 refs. ISSN: 0120-0135 DOI: 10.22267/rcia.1936E.108 Published by: University of Narino, Faculty of Agricultural Sciences, Narino	⑯b
697	Waite, Ian R.; Munn, Mark D.; Moran, Patrick W.; Konrad, Chris P.; Nowell, Lisa H.; Meador, Mike R.; Van Metre, Peter C.; Carlisle, Daren M.	2019	Effects of urban multi-stressors on three stream biotic assemblages	Science of the Total Environment (2019), 660, 1472-1485	⑯b
698	Matic Bujagic, Ivana; Grujic, Svetlana; Lausevic, Mila; Hofmann, Thilo; Micic, Vesna	2019	Emerging contaminants in sediment core from the Iron Gate I Reservoir on the Danube River.	Science of the Total Environment, (20 April 2019) Vol. 662, pp. 77-87. Refs: 72 ISSN: 0048-9697; E-ISSN: 1879-1026 CODEN: STEVA8	適切に評価できる試験系で実施されていない
699	Tamoghna Saha; Randhir Kumar; Nithya Chandran; Saha, T.; Kumar, R.; Chandran, N.	2019	Evaluation of new alternatives to neonicotinoid insecticides against sucking insect pests of okra.	Annals of Plant Protection Sciences (2019) , Volume 27, Number 3, pp. 338-341 ISSN: 0971-3573 DOI: 10.5958/0974-0163.2019.00074.0 Published by: Society of Plant Protection Sciences, New Delhi	④
700	Kuechle, Kyle J.; Webb, Elisabeth B.; Mengel, Doreen; Main, Anson R.	2019	Factors Influencing Neonicotinoid Insecticide Concentrations in Floodplain Wetland Sediments across Missouri	Environmental Science and Technology (2019), 53(18), 10591-10600	⑱
701	Hunn, Julia G.; Macaulay, Samuel J.; Matthaei, Christoph D.	2019	Food shortage amplifies negative sublethal impacts of low-level exposure to the neonicotinoid insecticide imidacloprid on stream mayfly nymphs	Water (Basel, Switzerland) (2019), 11(10), 2142	⑯b
702	Rico, Andreu; Arenas-Sanchez, Alba; Alonso-Alonso, Covadonga; Lopez-Heras, Isabel; Nozal, Leonor; Rivas-Tabares, David; Vighi, Marco	2019	Identification of contaminants of concern in the upper Tagus river basin (central Spain). Part 1: Screening, quantitative analysis and comparison of sampling methods	Science of the Total Environment (2019), 666, 1058-1070	⑱
703	Arenas-Sanchez, Alba; Rico, Andreu; Rivas-Tabares, David; Blanco, Alberto; Garcia-Doncel, Patricia; Romero-Salas, Amaya; Nozal, Leonor; Vighi, Marco	2019	Identification of contaminants of concern in the upper Tagus river basin (central Spain). Part 2: Spatio-temporal analysis and ecological risk assessment	Science of the Total Environment (2019), 667, 222-233	⑱

704	Nelson, Peter N.; Burrack, Hannah J.; Sorenson, Clyde E.	2019	Imidacloprid is compatible with control provided by the predator Jalysus wickhami Van Duzee (Hemiptera: Berytidae) in flue-cured tobacco (Nicotiana tabacum L.)	Crop Protection (2019), 118, 15-20	⑯b
705	Resende-Silva, Geverson A.; Turchen, Leonardo M.; Guedes, Raul Narciso C.; Cutler, G. Christopher	2019	Imidacloprid soil drenches affect weight and functional response of spined soldier bug (Hemiptera: Pentatomidae)	Journal of Economic Entomology (2019), 112(2), 558-564	⑯b
706	Binu, V.; Bhede, B. V.	2019	Impact of repeated application of synthetic insecticides on thrips and their natural enemies of Bt cotton	International Journal of Current Microbiology and Applied Sciences (2019), 8(8), 277-289	⑯b
707	Abhijit Ghosal; Anusweta Hati; Ghosal, A.; Hati, A.	2019	Impact of some new generation insecticides on soil arthropods in rice maize cropping system.	Journal of Basic and Applied Zoology (2019), Volume 80, Number 6, (1 February 2019) p., 43 refs. ISSN: 2090-990X DOI: 10.1186/s41936-019-0077-3 Published by: SpringerOpen, London	⑯b
708	Shahid, Mohammad; Zaidi, Almas; Ehtram, Aquib; Khan, Mohammad Saghir	2019	In vitro investigation to explore the toxicity of different groups of pesticides for an agronomically important rhizosphere isolate Azotobacter vinelandii	Pesticide Biochemistry and Physiology (2019) Ahead of Print	⑯b
709	Soomro, Q. A.; Sultana, R.; Muhammad, R.; Sohail, M.; Khuhro, N. H.	2019	In-vitro study of sub - lethal effect of new chemistry insecticides on the adult Chrysoperla carnea (Stephens).	Pakistan Journal of Agriculture, Agricultural Engineering, Veterinary Sciences (2019) , Volume 35, Number 1, pp. 29-33, 17 refs. ISSN: 1023-1072 Published by: Sindh Agriculture University, Tandojam	⑯b
710	Wolfram, Jakob; Stehle, Sebastian; Bub, Sascha; Petschick, Lara L.; Schulz, Ralf	2019	Insecticide Risk in US Surface Waters : Drivers and Spatiotemporal Modeling	Environmental Science and Technology (2019), 53(20), 12071-12080	⑱
711	Coslor, Charles C.; Vandervoort, Christine; Wise, John C.	2019	Insecticide dose and seasonal timing of trunk injection in apples influence efficacy and residues in nectar and plant parts	Pest Management Science (2019) Ahead of Print	⑯c
712	Sutthisa, W.; Soparut, P.; Waraporn Sutthisa; Pornpirun Soparut	2019	Interaction of antagonistic bacteria that effective to control rice bacterial leaf blight disease with agricultural chemicals and bio-products.	Journal of Pure and Applied Microbiology (2019) , Volume 13, Number 3, pp. 1517-1524, 18 refs. ISSN: 0973-7510 DOI: 10.22207/JPAM.13.3.23 Published by: Dr. M N Khan, Bhopal	⑱
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714	Purkait, Aloke; Hazra, Dipak Kumar; Biswas, Pabitra Kumar; Chowdhury, Ashim	2019	Studies the effects of Imidacloprid on enzymatic activities in clay loam soil	International Journal of Trend in Scientific Research and Development (2019), 3(2), IJTSRD21406	⑱
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719	Gusmaroli, Lucia; Buttiglieri, Gianluigi; Petrovic, Mira	2019	The EU watch list compounds in the ebro delta region: Assessment of sources, river transport, and seasonal variations	Environmental Pollution (Oxford, United Kingdom) (2019), 253, 606-615	⑱
720	Glinushkin, A. P.; Yakovleva, I. N.; Meshkov, Yu I	2019	The Impact of Pesticides Used in Greenhouses on the Predatory Mite Neoseiulus californicus (Parasitiformes, Phytoseiidae).	Russian Agricultural Sciences, (JUL 2019) Vol. 45, No. 4, pp. 356-359. ISSN: 1068-3674. E-ISSN: 1934-8037.	⑯b
721	Ham, Eun Hye; Lee, Jun Seok; Jang, Mi Yeon; Park, Jong Kyun	2019	Toxic effects of 12 pesticides on green lacewing, Chrysoperla nipponensis (Okamoto) (Neuroptera: Chrysopidae)	Entomological Research (2019), 49(7), 305-312	⑯b
722	Kumar Anoop; Singh, N. N.; Mishra, V. K.; Anoop, K.	2019	Toxicity of insecticides to egg parasitoid, Trichogramma chilonis Ishii under laboratory and semi-field conditions.	Annals of Plant Protection Sciences (2019) , Volume 27, Number 1, pp. 24-27 ISSN: 0971-3573 DOI: 10.5958/0974-0163.2019.00005.3 Published by: Society of Plant Protection Sciences, New Delhi	⑯b
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724	Kohl, Kristina L; Harrell, Lauren K; Mudge, Joseph F; Seenivasan Subbiah; Kasumba, John; Osma, Etem; Barman, Apurba K; Anderson, Todd A	2019	Tracking neonicotinoids following their use as cotton seed treatments	PeerJ, 20190419 E-ISSN: 2167-8359 DOI: 10.7717/peerj.6805 Published by: PeerJ, Inc., San Diego	⑱
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727	Derbalah A; Sunday M; Chidya R; Jadoon W; Sakugawa H	2019	Kinetics of photocatalytic removal of imidacloprid from water by advanced oxidation processes with respect to nanotechnology.	Journal of water and health, (2019 Apr) Vol. 17, No. 2, pp. 254-265.	⑱
728	Isabel Ahumada, M.; Chorbadjian, Rodrigo A. Isabel Ahumada, M.; Chorbadjian, Rodrigo A.	2019	Laboratory assays of the insecticidal activity of cyantraniliprole and imidacloprid on Brevicoryne brassicae, Myzus persicae (Hemiptera: Aphididae) and Trialeurodes vaporariorum (Hemiptera: Aleyrodidae) pests species and a biological control agent Chrysoperla defreitasi (Neuroptera: Chrysopidae)	CHILEAN JOURNAL OF AGRICULTURAL RESEARCH, (OCT-DEC 2019) Vol. 79, No. 4, pp. 658-663. ISSN: 0718-5839.	⑱

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731	Kailani, Mohammed H.; Al-Antary, Tawfiq M.; Alawi, Mahmoud A.	2019	Monitoring of pesticides residues in soil samples from the southern districts of Jordan in 2016/2017	Toxin Reviews (2019) Ahead of Print	⑱
732	Quintana, Jordi; De La Cal, Agustina; Boleda, M. Rosa	2019	Monitoring the complex occurrence of pesticides in the Llobregat basin, natural and drinking waters in Barcelona metropolitan area (Catalonia, NE Spain) by a validated multi-residue online analytical method	Science of the Total Environment (2019), 692, 952-965	⑱
733	Mejias, Enrique; Godoy, Paulina; Gomez, Miguel; Montenegro, Gloria; Gomez, Carlos; Garrido, Tatiana	2019	Natural attributes of Chilean honeys modified by the presence of neonicotinoids residues	Agroforestry Systems (1 Dec 2019) Volume 93, Number 6, pp. 2257-2266, 38 refs. CODEN: AGSYE6 ISSN: 0167-4366 E-ISSN: 1572-9680 DOI: 10.1007/s10457-019-00345-z Published by: Springer Netherlands,	⑱
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736	Wintermantel, Dimitry; Odoux, Jean-Francois; Decourtye, Axel; Henry, Mickael; Allier, Fabrice; Bretagnolle, Vincent	2019	Neonicotinoid-induced mortality risk for bees foraging on oilseed rape nectar persists despite EU moratorium	Science of the Total Environment (2019) Ahead of Print	⑱
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738	Wan, Yanjian; Wang, Yao; Xia, Wei; He, Zhenyu; Xu, Shunqing	2019	Neonicotinoids in raw, finished, and tap water from Wuhan, Central China: Assessment of human exposure potential.	Science of the Total Environment, (JUL 20 2019) Vol. 675, pp. 513-519.	⑱
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740	Yi, Xiaohui; Zhang, Chao; Liu, Hongbin; Wu, Renren; Tian, Di; Ruan, Jujun; Zhang, Tao; Huang, Mingzhi; Ying, Guangguo	2019	Occurrence and distribution of neonicotinoid insecticides in surface water and sediment of the Guangzhou section of the Pearl River, South China	Environmental Pollution (Oxford, United Kingdom) (2019), 251, 892-900	⑱
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742	Iancu, Vasile-Ion; Petre, Jana; Galaon, Toma; Radu, Gabriel Lucian	2019	Occurrence of neonicotinoid residues in danube river and tributaries	Revista de Chimie (Bucharest, Romania) (2019), 70(1), 313-318	⑱

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820	Arlos, Maricor J.; Focks, Andreas; Hollender, Juliane; Stamm, Christian	2020	Improving risk assessment by predicting the survival of field gammarids exposed to dynamic pesticide mixtures	Environmental Science and Technology (2020) Ahead of Print	⑱

821	Cerezer, Cristina; Marins, Aline Teixeira; Cerezer, Felipe Osmari; Severo, Eduardo Stringini; Leitemperger, Jossiele Wesz; Grubel Bandeira, Nelson Miguel; Zanella, Renato; Loro, Vania Lucia; Santos, Sandro	2020	Influence of pesticides and abiotic conditions on biochemical biomarkers in Aegla aff. longirostri (crustacea, anomura): Implications for conservation	Ecotoxicology and Environmental Safety (2020), 203, 110982	⑱
822	Smith Dylan B; Arce Andres N; Ramos Rodrigues Ana; Bischoff Philipp H; Burris Daisy; Ahmed Farah; Gill Richard J	2020	Insecticide exposure during brood or early-adult development reduces brain growth and impairs adult learning in bumblebees .	Proceedings. Biological sciences, (2020 Mar 11) Vol. 287, No. 1922, pp. 20192442. Electronic Publication Date: 4 Mar 2020	⑯b
823	Murata, Kouhei; Tanaka, Koichi	2020	Insecticide susceptibilities of Hydrometra species (Hemiptera: Hydrometridae), including an endangered species, inhabiting paddy fields in Japan	Applied Entomology and Zoology (2020), 55(4), 395-403	⑯b
824	Afza, Rahat; Riaz, Muhammad Asam; Afzal, Muhammad Afza, Rahat; Afzal, Muhammad	2020	Sublethal Effect of Six Insecticides on Predatory Activity and Survival of Coccinella Septempunctata (Coleoptera: Coccinellidae) Following Contact with Contaminated Prey and Residues	GESUNDE PFLANZEN, (2020 MAR 2020) Vol. 72, No. 1, pp. 77-86. ISSN: 0367-4223.	⑯b
825	Lin, Ronghua; He, Dan; Men, Xingyuan; Zheng, Li; Cheng, Shenhang; Tao, Lingmei; Yu, Caihong	2020	Sublethal and transgenerational effects of acetamiprid and imidacloprid on the predatory bug Orius sauteri (Poppius) (Hemiptera: Anthocoridae)	Chemosphere (2020), 255, 126778	⑯b
826	Young, Helen K.; Denecke, Shane M.; Robin, Charles; Fournier-Level, Alexandre	2020	Sublethal larval exposure to imidacloprid impacts adult behaviour in Drosophila melanogaster	Journal of Evolutionary Biology (2020), 33(2), 151-164	⑯b
827	Romeh, Ahmed Ali	2020	Synergistic use of Plantago major and effective microorganisms, EM1 to clean up the soil polluted with imidacloprid under laboratory and field condition	International Journal of Phytoremediation (2020), 22(14), 1515-1523	⑱
828	Ricupero, Michele; Desneux, Nicolas; Zappala, Lucia; Biondi, Antonio	2020	Target and non-target impact of systemic insecticides on a polyphagous aphid pest and its parasitoid	Chemosphere (2020), 247, 125728	⑱
829	Lalonde, Benoit; Garron, Christine	2020	Temporal and Spatial Analysis of Surface Water Pesticide Occurrences in the Maritime Region of Canada	Archives of Environmental Contamination and Toxicology (2020), 79(1), 12-22	⑱
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832	Rohonczy, Jillian L. M.; Koprivnikar, Janet; Waltho, Nigel; Robinson, Stacey A.	2020	The Effects of the Commercially Formulated Neonicotinoids Imidacloprid and Thiamethoxam on the Survival of Infectious Stages of Two Trematode Parasites	Water, Air, and Soil Pollution (2020), 231(3), 125	⑯b
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835	Kadlikova, Klara; Vaclavikova, Marta; Halesova, Tatana; Kamler, Martin; Markovic, Martin; Erban, Tomas	2020	The investigation of honey bee pesticide poisoning incidents in Czechia	Chemosphere (2020) Ahead of Print	⑱
836	Alonso-Prados, Elena; Munoz, Irene; De La Rua, Pilar; Serrano, Jose; Fernandez-Alba, Amadeo R.; Garcia-Valcarcel, Ana Isabel; Hernando, Maria Dolores; Alonso, Angeles; Alonso-Prados, Jose L.; Bartolome, Carolina; Maside, Xulio; Barrios, Laura; Martin-Hern	2020	The toxic unit approach as a risk indicator in honey bees surveillance programmes: A case of study in Apis mellifera iberiensis	Science of the Total Environment (2020), 698, 134208	⑱
837	Mulvey Jessica; Cresswell James E	2020	Time-dependent effects on bumble bees of dietary exposures to farmland insecticides (imidacloprid , thiamethoxam and fipronil).	Pest management science, (2020 Apr 01) . Electronic Publication Date: 1 Apr 2020	⑯b
838	Braulio Hennig, Thuanne; Ogliari Bandeira, Felipe; Dalpasquale, Adriano Junior; Cardoso, Elke Jurandy Bran Nogueira; Baretta, Dilmar; Lopes Alves, Paulo Roger	2020	Toxicity of imidacloprid to collembolans in two tropical soils under different soil moisture	Journal of Environmental Quality (2020) Ahead of Print	⑯b
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841	Hulbert, Daniel; Raja Jamil, Raja Zalinda; Isaacs, Rufus; Vandervoort, Christine; Erhardt, Susan; Wise, John	2020	Leaching of insecticides used in blueberry production and their toxicity to red worm	Chemosphere (2020), 241, 125091	⑯b
842	Snow, D.D.; Chakraborty, P.; Uralbekov, B.; Satybaldiev, B.; Sallach, J.B.; Thornton Hampton, L.M.; Jeffries, M.; Kolok, A.S.; Bartelt-Hunt, S.B.	2020	Legacy and current pesticide residues in Syr Darya, Kazakhstan: Contamination status, seasonal variation and preliminary ecological risk assessment .	Water Research, (1 October 2020) Vol. 184. arn. 116141. Refs: 49 ISSN: 0043-1354; E-ISSN: 1879-2448 CODEN: WATRAG	⑱
843	Mcluckie, Catherine; Moltschaniwskyj, Natalie; Gaston, Troy; Dunstan, R. Hugh; Crompton, Marcus; Butcherine, Peter; Benkendorff, Kirsten; Taylor, Matthew D.	2020	Lethal and sub - lethal effects of environmentally relevant levels of imidacloprid pesticide to Eastern School Prawn, Metapenaeus macleayi	Science of the Total Environment (2020), 742, 140449	⑱
844	Atta, Bilal; Rizwan, Muhammad; Sabir, Arshed Makhdoom; Gogi, Muhammad Dildar; Farooq, Muhammad Asif; Jamal, Abdullah Atta, Bilal; Sabir, Arshed Makhdoom Gogi, Muhammad Dildar Farooq, Muhammad Asif Jamal, Abdullah	2020	Lethal and sublethal effects of clothianidin, imidacloprid and sulfoxaflor on the wheat aphid,Schizaphis graminum(Hemiptera: Aphididae) and its coccinellid predator,Coccinella septempunctata	INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE, (16 2020 JUL 2020) . ISSN: 1742-7584.	⑯b
845	Cauia, E.; Siceanu, A.; Visan, G. O.; Cauia, D.; Colta, T.; Spulber, R. A.	2020	Monitoring the field-realistic exposure of honeybee colonies to neonicotinoids by an integrative approach: a case study in Romania.	Diversity (2020), Volume 12, Number 1, 65 refs. DOI: 10.3390/d12010024 Published by: MDPI AG, Basel	⑱
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852	Elfikrie, Nurulizani; Ho, Yu Bin; Zaidon, Siti Zulfa; Juahir, Hafizan; Tan, Eugenie Sin Sing	2020	Occurrence of pesticides in surface water , pesticides removal efficiency in drinking water treatment plant and potential health risk to consumers in Tengi River Basin, Malaysia	Science of the Total Environment (2020) Ahead of Print	⑱
853	Zhou, Yitong; Wu, Junxue; Wang, Bin; Duan, Lei; Zhang, Yizhe; Zhao, Wenxing; Wang, Fang; Sui, Qian; Chen, Zhongying; Xu, Dongjiong; Li, Qingxue; Yu, Gang	2020	Occurrence, source and ecotoxicological risk assessment of pesticides in surface water of Wujin District (northwest of Taihu Lake), China	Environmental Pollution (Oxford, United Kingdom) (2020), 265(Part_A), 114953	⑱
854	Xu, Lei; Granger, Caroline; Dong, Huiyu; Mao, Yuanxiang; Duan, Shule; Li, Jin; Qiang, Zhimin	2020	Occurrences of 29 pesticides in the Huangpu River, China: Highest ecological risk identified in Shanghai metropolitan area	Chemosphere (2020), 251, 126411	⑱
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857	Pico, Yolanda; Alvarez-Ruiz, Rodrigo; Alfarhan, Ahmed H.; El-Sheikh, Mohamed A.; Alshahrani, Hamad O.; Barcelo, Damia	2020	Pharmaceuticals, pesticides, personal care products and microplastics contamination assessment of Al-Hassa irrigation network (Saudi Arabia) and its shallow lakes	Science of the Total Environment (2020), 701, 135021	⑱
858	Zioga, Elena; Kelly, Ruth; White, Blanaid; Stout, Jane C.	2020	Plant protection product residues in plant pollen and nectar: A review of current knowledge.	Environmental Research, (October 2020) Vol. 189. arn. 109873. Refs: 115 ISSN: 0013-9351; E-ISSN: 1096-0953 CODEN: ENVRAL	⑱
859	Claus, Gregor; Spanoghe, Pieter	2020	Quantification of pesticide residues in the topsoil of Belgian fruit orchards: terrestrial environmental risk assessment	Pest Management Science (2020) Ahead of Print	⑱

860	Pervez, Mahnoor; Manzoor, Farkhanda Pervez, Mahnoor; Manzoor, Farkhanda	2020	A study on lethal doses of various pesticides on honeybees (Apis mellifera L.) - a laboratory trial	PHYSIOLOGICAL ENTOMOLOGY, (6 2020 NOV 2020) . ISSN: 0307-6962.	50%ショ糖にイミダクロプリドを1.25, 2.5, 5 mg/Lの濃度で4日間、自由摂取させ、その結果LC50が0.477ng/Lとされている。また、5mg/L投与で、4日間の平均死亡率は約40%となっている。毎日の摂餌量を記録したとあるが、ミツバチなしの区を設けておらず、摂餌量の算出に蒸発による減少分が考慮されていないと思われる。仮に100mg/bee/dayで50%ショ糖液を摂取したとすると、5mg/L(死亡率40%)はイミダクロプリドを500ng/bee摂取したことになり、報告されている0.477ng/beeと整合性がない。高濃度のイミダクロプリド含有ショ糖の給餌による忌避により、ほとんど摂餌せず栄養不足となったか、計算違いが想定される。
861	Warne, M. St. J.; Smith, R. A.; Turner, R. D. R.	2020	Analysis of pesticide mixtures discharged to the lagoon of the Great Barrier Reef, Australia	Environmental Pollution (Oxford, United Kingdom) (2020), 265(Part_A), 114088	海外モニタリングであり、日本における評価に利用できない。
862	Mahnoor Pervez; Manzoor, F.	2020	Analysis of pesticide residues in pollen and nectar samples from various agricultural areas of Pakistan through high performance liquid chromatograph.	Sarhad Journal of Agriculture (2020), Volume 36, Number 1, pp. 1-9, 32 refs. ISSN: 1016-4383 DOI: 10.17582/journal.sja/2020/36.1.1.9 Published by: The University of Agriculture, Peshawar	海外モニタリングであり、日本における評価に利用できない。
863	Machado, William A.; Carvalho, Stephan M.; Da Cunha, Joao Paulo A. R.; Silva, Sergio M.; Lemes, Ernane M.	2020	Application technology of imidacloprid in wheat: Effects on Schizaphis graminum management and natural enemies	African Journal of Plant Science (2020), 14(1), 36-44	⑯b
864	Krishnan, Niranjana; Zhang, Yang; Bidne, Keith G.; Hellmich, Richard L.; Coats, Joel R.; Bradbury, Steven P.	2020	Assessing Field-Scale Risks of Foliar Insecticide Applications to Monarch Butterfly (Danaus plexippus) Larvae	Environmental Toxicology and Chemistry (2020) Ahead of Print	⑯b
865	Khan, Nikhat; Yaqub, Ghazala; Hafeez, Tahreem; Tariq, Madiha Editor(S): Zhang, Yifeng Zhang, Yifeng	2020	Assessment of Health Risk due to Pesticide Residues in Fruits, Vegetables, Soil, and Water	Journal of Chemistry, Vol. 2020, 20200101 ISSN: 2090-9063; 2090-9063 E-ISSN: 2090-9071; 2090-9071 DOI: 10.1155/2020/5497952 Published by: Hindawi Limited, New York	海外モニタリングであり、日本における評価に利用できない。
866	Janani, M.; Rani, B. U.; Suresh, K.; Yogapriya, A.	2020	Biosafety of insecticides to the Indian bee Apis cerana indica (F.).	Indian Journal of Entomology (2020) , Volume 82, Number 1, pp. 170-171 ISSN: 0367-8288 DOI: 10.5958/0974-8172.2020.00039.5 Published by: Entomological Society of India, New Delhi	⑯b
867	Pinasseau, Lucie; Wiest, Laure; Volatier, Laurence; Fones, Gary R.; Mills, Graham A.; Mermillod-Blondin, Florian; Vulliet, Emmanuelle	2020	Calibration and field application of an innovative passive sampler for monitoring groundwater quality	Talanta (2020), 208, 120307	地下水サンプリング法

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869	Ebadollahi, Asgar; Sadeghi, Reza	2020	Comparison of the toxicity and repellency of two conventional neonicotinoids and a coconut-derived insecticide soap toward the parasitoid wasp Aphelinus mali Haldeman, 1851	Acta Agriculturae Slovenica (2020), 115(1), 97-103	⑯b
870	Lavanya, D. S.; Matti, Poornima	2020	Compatibility of entomopathogenic fungi, Metarhizium anisopliae with pesticides	International Journal of Current Microbiology and Applied Sciences (2020), 9(2), 714-721	⑯b
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874	Schwartz, Kayla Rachel; Minor, Hannah; Magro, Caitlin; Mcconnell, James; Capani, Jeton; Griffin, Jordan; Doebel, Hartmut Schwartz, Kayla Rachel; Doebel, Hartmut	2020	The neonicotinoid imidacloprid alone alters the cognitive behavior in Apis mellifera L. and the combined exposure of imidacloprid and Varroa destructor mites synergistically contributes to trial attrition	JOURNAL OF APICULTURAL RESEARCH, (19 2020 DEC 2020) . ISSN: 0021-8839.	⑱
875	Khan, Asma; Suleman, Muhammad	2020	The occurrence of priority pesticides in the soil and groundwater of Peshawar	International Journal of Biosciences (2020), 17(6), 253-265	⑱
876	Sanchez-Bayo, Francisco; Tennekes, Henk A.	2020	Time-cumulative toxicity of neonicotinoids : Experimental evidence and implications for environmental risk assessments.	International Journal of Environmental Research and Public Health, (1 Mar 2020) Vol. 17, No. 5. arn. 1629. Refs: 96 ISSN: 1661-7827; E-ISSN: 1660-4601	⑨(公表データの解析)
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881	Zuma, Olieve G.; Harvey, Kerinne J.; Olckers, Terence	2020	Pesticides selected for natural-enemy exclusion trials in South Africa do not influence the growth and reproduction of invasive Senecio Madagascariensis	Canadian Journal of Pure and Applied Sciences (2020), 14(3), 5093-5096	⑱
882	Sengupta, Sagnik; Leinaas, Hans Petter; Van Gestel, Cornelis A. M.; Rundberget, Jan Thomas; Borga, Katrine	2020	A Multiple Life-History Trait-Based and Time-Resolved Assessment of Imidacloprid Effects and Recovery in the Widely Distributed Collembolan Folsomia quadrioculata	Environmental Toxicology and Chemistry (2020) Ahead of Print	⑯b
883	Marques, R. D.; Lima, M. A. P.; Bernardes, R. C.	2020	A Spinosad-Based Formulation Reduces the Survival and Alters the Behavior of the Stingless Bee Plebeia lucii	Neotropical Entomology (2020), 49(4), 578-585	⑯b
884	Martinello, Marianna; Manzinello, Chiara; Borin, Alice; Avram, Larisa Elena; Dainese, Nicoletta; Giuliato, Ilenia; Gallina, Albino; Mutinelli, Franco	2020	A Survey from 2015 to 2019 to Investigate the Occurrence of Pesticide Residues in Dead Honeybees and Other Matrices Related to Honeybee Mortality Incidents in Italy.	Diversity-Basel, (JAN 2020) Vol. 12, No. 1, pp. Article No.: 15. E-ISSN: 1424-2818.	死亡したミツバチの農薬分析。
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886	Dulumoni, Tamuly; Caroline, Basumata; Ratul, Nath; Mithra, Dey	2020	Acute and chronic effects of imidacloprid to anuran tadpoles (Polypedates teraiensis)	Research Journal of Chemistry and Environment (2020), 24(10), 25-30	⑯b
887	Shan, Yin-Xue; Zhu, Yang; Li, Jing-Jing; Wang, Nian-Meng; Yu, Qi-Tong; Xue, Chao-Bin	2020	Acute lethal and sublethal effects of four insecticides on the lacewing (Chrysoperla sinica Tjeder)	Chemosphere (2020), 250, 126321	⑯b
888	Marins, Aline Teixeira; Severo, Eduardo Stringini; Leitemperger, Jossiele Wesz; Cerezer, Cristina; Muller, Talise Elwanger; Costa, Maiara Dorneles; Weimer, Gustavo Henrique; Bandeira, Nelson Miguel Grubel; Prestes, Osmar Damian; Zanella, Renato; Loro, Van	2020	Assessment of River Water Quality in an Agricultural Region of Brazil Using Biomarkers in a Native Neotropical Fish, Astyanax spp. (Characidae)	Bulletin of Environmental Contamination and Toxicology (2020), 104(5), 575-581	⑯b ⑰
889	Kumar, Sushil; Sachan, Sk; Singh, Rajendra; Singh, D. V.	2020	Bio-efficacy of some newer insecticides and biopesticides against whitefly (Bemisia tabaci Gennadius) in Brinjal ecosystem	International Journal of Chemical Studies (2020), 8(5), 1883-1888	⑯b
890	Crayton, Sara M.; Wood, Petra B.; Brown, Donald J.; Millikin, Alice R.; Mcmanus, Terence J.; Simpson, Tyler J.; Ku, Kang-Mo; Park, Yong-Lak Crayton, Sara M.; Millikin, Alice R. Wood, Petra B. Brown, Donald J. Mcmanus, Terence J. Simpson, Tyler J.; Park, Y	2020	Bioaccumulation of the pesticide imidacloprid in stream organisms and sublethal effects on salamanders	GLOBAL ECOLOGY AND CONSERVATION, (2020 DEC 2020) Vol. 24. ISSN: 2351-9894.	⑯b
891	Lewis, Jacquelyn L.; Agostini, Gabriela; Jones, Devin K.; Relyea, Rick A.	2020	Cascading effects of insecticides and road salt on wetland communities	Environmental Pollution (Oxford, United Kingdom) (2020) Ahead of Print	⑱
892	Robinson, Alex; Lahive, Elma; Short, Stephen; Carter, Heather; Sleep, Darren; Pereira, Gloria; Kille, Peter; Spurgeon, David	2020	Chemicals with increasingly complex modes of action result in greater variation in sensitivity between earthworm species	Environmental Pollution (Oxford, United Kingdom) (2020) Ahead of Print	⑯b

893	Ito, Hiroshi C.; Shiraishi, Hiroaki; Nakagawa, Megumi; Takamura, Noriko	2020	Combined impact of pesticides and other environmental stressors on animal diversity in irrigation ponds	PLoS One (2020), 15(7), e0229052	各種の農薬やその他の環境要因と生物種の関係について調べているが、評価に用いることのできるエンドポイントは得られておらず、またイミダクロプリドによる影響は示されていない。
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895	Perdikis, Dionyssios; Psaroudaki, Stavroula; Papadoulis, Georgios	2020	Compatibility of Nesidiocoris tenuis and Iphiseius degenerans with insecticides, miticides and fungicides used in tomato crops.	Bulletin of Insectology, (DEC 2020) Vol. 73, No. 2, pp. 181-192. ISSN: 1721-8861. E-ISSN: 2283-0332.	⑯b
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899	Akbari, S.; Mirfakhraie, S.; Aramideh, S.; Safaralizadeh, M. H.	2020	Effect of fungal isolates and imidacloprid on cabbage aphid Brevicoryne brassicae and its parasitoid Diaeretiella rapae.	Zemdirbyste (Agriculture) (2020), Volume 107, Number 3, pp. 255-262, 37 refs. ISSN: 1392-3196 DOI: 10.13080/z-a.2020.107.033 Published by: Lithuanian Research Centre for Agriculture and Forestry, Kedainiai	⑯b
900	Hussein, R.; El-Saydeh, H. K.; Bachir, A.	2020	Effect of insecticides used in the control of insect pests in tomato fields in Quneitra governorate in Syria on some insect predators.	Arab Journal of Plant Protection (2020) , Volume 38, Number 2, pp. 162-171, 41 refs. ISSN: 0255-982X; 2412-5407 Published by: Arab Society for Plant Protection, Beirut	⑲
901	Ma Xue; Han Ying; Han Xu; Su Yue; Li Zhixiong; Xiong Renci; Yao Yongsheng	2020	Effects on Development and Fecundity of Coccinella undecimpunctata Fed on Aphis gossypii Treated with Sublethal Doses of Three Different Insecticides	Xinjiang Nongye Kexue (2020), 57(6), 138-144	⑲
902	Zhao, Lei; Yang, Ye; Wang, Meng; Ma, Xiaoyan	2020	Efficacy of a new strain of Beauveria bassiana against the melon fruit fly, Zeugodacus cucurbitae (diptera: tephritidae)	International Journal of Agriculture and Biology (2020), 24(4), 725-729	⑯b
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906	Kulkarni, N. S.; Kumar, Vinod Kulkarni, N. S.; Kumar, Vinod	2020	Influence of aphids Aphis craccivora on yield parameters of lucerne (Medicago sativa L.) and their management with different IPM components	RANGE MANAGEMENT AND AGROFORESTRY, (2020 JUN 2020) Vol. 41, No. 1, pp. 178-181. ISSN: 0971-2070.	⑯b
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973	Koterba, Michael T.; Dieter, Cheryl A.; Miller, Cherie V.	2010	Pesticides in groundwater in the Anacostia River and Rock Creek watersheds in Washington, D.C., 2005 and 2008	Scientific Investigations Report (United States Geological Survey) (2010), 2010-5130, i-vi, 1-90	⑰

974	Mandal, Kousik; Chahil, G. S.; Sahoo, S. K.; Battu, R. S.; Singh, Balwinder	2010	Dissipation Kinetics of .beta.-Cyfluthrin and Imidacloprid in Brinjal and Soil Under Subtropical Conditions of Punjab, India	Bulletin of Environmental Contamination and Toxicology (2010), 84(2), 225-229	⑭ ⑰
975	Fernandez-Perez, M.; Garrido-Herrera, F. J.; Gonzalez-Pradas, E.	2011	Alginate and lignin-based formulations to control pesticides leaching in a calcareous soil	Journal of Hazardous Materials (2011), 190(1-3), 794-801	⑱
976	Pandiselvi, Velmurugan; Sathiyanarayanan, Sivanandam; Ramesh, Atmakuru	2011	Dissipation of spirotetramat and imidacloprid in four different tropical soils-confirmation of residues by electrospray tandem mass spectrometry	Pesticide Research Journal (2011), 23(1), 45-51	⑰
977	Licciardello, Feliciana; Antoci, Maria Lucia; Brugaletta, Luana; Cirelli, Giuseppe Luigi	2011	Evaluation of groundwater contamination in a coastal area of south-eastern Sicily	Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes (2011), 46(6), 498-508	⑰
978	Temple, Whitney B.; Johnson, Henry M.	2011	Occurrence and distribution of pesticides in surface waters of the Hood River basin, Oregon, 1999-2009	Scientific Investigations Report (United States Geological Survey) (2011), 2011-5082, i-viii, 1-83	⑰
979	Jindal, Tanu	2011	Risk assessment of ground water contamination by imidacloprid and endosulfan leaching in three different types of soils and cropping practices	Pesticide Research Journal (2011), 23(1), 18-22	⑰
980	Miyajiri, Kumi; Kondo, Hirofumi; Kaba, Toshiyuki	2012	LC/MS/MS method for determination of pesticides in waste water from golf course and results of environmental survey	Kyoto-fu Hoken Kankyo Kenkyusho Nenpo (2012), 57, 102-106	京都府保健環境研究所年報であり査読付き雑誌ではない。
981	Bajeer, Muhammad Ashraf; Nizamani, Shafi Muhammad; Sherazi, Syed Tufail Hussain; Bhanger, Muhammad Iqbal	2012	Adsorption and Leaching Potential of Imidacloprid Pesticide through Alluvial Soil	American Journal of Analytical Chemistry. Vol. 3, no. 8, 604 p. Aug 2012. ISSN: 2156-8251 E-ISSN: 2156-8278 Published by: Scientific Research Publishing	吸着試験を実施しているが物質収支、試験温度、土壌水比等が記載されていない。
982	Plaza-Bolanos, Patricia; Padilla-Sanchez, Juan Antonio; Garrido-Frenich, Antonia; Romero-Gonzalez, Roberto; Martinez-Vidal, Jose Luis.	2012	Evaluation of soil contamination in intensive agricultural areas by pesticides and organic pollutants: south-eastern Spain as a case study.	J. Environ. Monit., Volume 14, Issue 4, Page 1181-1188, Publication Year 2012	⑰
983	Sabale, Sandip R.; Tamhankar, Bhaskar V.; Dongare, Meena M.; Mohite, B. S.	2012	Extraction, determination and bioremediation of heavy metal ions and pesticide residues from lake water	Journal of Bioremediation and Biodegradation (2012), 3(4), 143	⑱
984	Baig, Sajjad Ahmad; Akhter, Niaz Ahmad; Ashfaq, Muhammad; Asi, Muhammad Rafique; Ashfaq, Umair	2012	Imidacloprid residues in vegetables, soil and water in the southern Punjab, Pakistan	Agricultural Technology (2012), 8(3), 903-916	⑰
985	Richards, Brian K.; Pacenka, Steven; Salvucci, Anthony E.; Saia, Sheila M.; Whitbeck, Luanne F.; Furdyna, Peter M.; Steenhuis, Tammo S.	2012	Surveying upstate NY well water for pesticide contamination: Cayuga and Orange counties	Ground Water Monitoring and Remediation (2012), 32(1), 73-82	⑰
986	Ramasubramanian, Thirumalaiandi; Paramasivam, Mariappan; Jayanthi, Ramabhadran	2012	Rapid and Sensitive Analytical Method for Simultaneous Determination of Imidacloprid and Thiamethoxam Residues in Soils of Sugarcane Ecosystem by Reversed-Phase HPLC	Water, Air, and Soil Pollution (2012), 223(9), 6045-6050	⑤ ⑰
987	Mohamed, Gehad G.; Saleh, M.; Ibrahim, Hala M.	2012	Monitoring of pesticide residues in different agriculture fields effect of different home processes on the pesticides elimination	International Journal of Research in Chemistry and Environment (2012), 2(3), 237-253	⑰
988	Broznic, Dalibor; Milin, Cedomila.	2013	Mathematical prediction of imidacloprid persistence in two Croatian soils with different texture, organic matter content and acidity under laboratory conditions.	J. Environ. Sci. Health, Part B, Volume 48, Issue 11, Page 906-918, Publication Year 2013	⑱(土壌における残留の予測)

989	Masia, A.; Ibanez, M.; Blasco, C.; Sancho, J. V.; Pico, Y.; Hernandez, F.	2013	Combined use of liquid chromatography triple quadrupole mass spectrometry and liquid chromatography quadrupole time-of-flight mass spectrometry in systematic screening of pesticides and other contaminants in water samples	Analytica Chimica Acta (2013), 761, 117-127	⑰
990	Fortuny, Georgina; Pineda, Laura; Rubies, Antoni; Centrich, Francesc; Companyo, Ramon	2013	Determination of 61 organic pollutants in drinking water by solid phase extraction followed by liquid and gas chromatography coupled to tandem mass spectrometry: an analytical strategy for a routine laboratory	International Journal of Environmental Analytical Chemistry (2013), 93(7), 707-726	⑰
991	Coscolla, Clara; Hart, Elizabeth; Yusa, Vicent (Correspondence)	2013	LC-MS characterization of contemporary pesticides in PM10 of Valencia Region, Spain.	Atmospheric Environment, (October 2013) Vol. 77, pp. 394-403. Refs: 29 ISSN: 1352-2310; E-ISSN: 1873-2844 CODEN: AENVEQ	⑰
992	Campo, Julian; Masia, Ana; Blasco, Cristina; Pico, Yolanda	2013	Occurrence and removal efficiency of pesticides in sewage treatment plants of four Mediterranean River Basins	Journal of Hazardous Materials (2013), 263(P1), 146-157	⑰
993	Sequinatto, Leticia; Reichert, Jose Miguel; Rheinheimer Dos Santos, Danilo; Reinert, Dalvan Jose; Copetti, Andre Carlos Cruz	2013	Occurrence of agrochemicals in surface waters of shallow soils and steep slopes cropped to tobacco	Quimica Nova (2013), 36(6), 768-772	⑰
994	Samnani, Prakash; Vishwakarma, Kamlesh; Pandey, S. Y.	2013	Persistence study of imidacloprid in different soils under laboratory conditions	International Journal of Environmental Sciences (2013), 4(2), 151-157, 7 pp.	ラボにおける土壌中分解性試験であり、評価に使用されない。
995	Larsbo, Mats; Loefstrand, Elisabeth; Van Alphen De Veer, David; Ulen, Barbro	2013	Pesticide leaching from two Swedish topsoils of contrasting texture amended with biochar	Journal of Contaminant Hydrology (2013), 147, 73-81	⑱(バイオ炭添加によるリーチングへの影響)
996	Akamatsu, Miki; Tsujita, Kosuke; Pitiyont, Vinai; Saejiew, Atinut; Jiwajinda, Suratwadee; Tanaka, Ueru	2013	Pesticide residue analyses of soils collected from suburban agricultural fields around Bangkok	Tropical Agriculture and Development (2013), 57(1), 8-15	⑰
997	Masia, Ana; Campo, Julian; Vazquez-Roig, Pablo; Blasco, Cristina; Pico, Yolanda	2013	Screening of currently used pesticides in water, sediments and biota of the Guadalquivir River Basin (Spain)	Journal of Hazardous Materials (2013), 263(P1), 95-104	⑰
998	Magnusson, Marie (Correspondence)	2013	Pesticide contamination and phytotoxicity of sediment interstitial water to tropical benthic microalgae.	Water Research, (5 Sep 2013) Vol. 47, No. 14, pp. 5211-521. Refs: 46 ISSN: 0043-1354; E-ISSN: 1879-2448 CODEN: WATRAG	⑰
999	De Geronimo, Eduardo; Aparicio, Virginia C.; Barbaro, Sebastian; Portocarrero, Rocio; Jaime, Sebastian; Costa, Jose L.	2014	Presence of pesticides in surface water from four sub-basins in Argentina	Chemosphere (2014), 107, 423-431	⑰
1000	Dankyi, Enock; Gordon, Christopher; Carboo, Derick; Fomsgaard, Inge S.	2014	Quantification of neonicotinoid insecticide residues in soils from cocoa plantations using a QuEChERS extraction procedure and LC-MS/MS	Science of the Total Environment (2014), 499, 276-283	⑰
1001	Akoijam, Romila; Singh, Balwinder	2014	Metabolic degradation of imidacloprid in paddy field soil	Environmental Monitoring and Assessment (2014), 186(10), 5977-5984	⑰
1002	Jodeh, Shehdeh; Khalaf, Osamah; Obaid, Ahmad Abu; Hammouti, Belkheir; Hadda, Taibi B.; Jodeh, Wade; Haddad, Marwan; Warad, Ismail	2014	Adsorption and kinetics study of abamectin and imidacloprid in greenhouse soil in Palestine	Journal of Materials and Environmental Science (2014), 5(2), 571-580	吸着試験を実施しているが、pHの調整を行っており、また物質収支が求められていない。
1003	Lu, Jinky Leilanie	2014	Assessment of insecticide residues in eggplant farm soils and water	Environmental Science: An Indian Journal (2014), 9(9), 308-319	⑰

1004	Wijnja, Hotze; Doherty, Jeffery J.; Safie, Saida A.	2014	Changes in Pesticide Occurrence in Suburban Surface Waters in Massachusetts, USA, 1999-2010	Bulletin of Environmental Contamination and Toxicology (2014), 93(2), 228-232	⑰
1005	Sanchez-Bayo, Francisco; Hyne, Ross V.	2014	Detection and analysis of neonicotinoids in river waters - Development of a passive sampler for three commonly used insecticides	Chemosphere (2014), 99, 143-151	⑰
1006	Saxa1nchez-Bayo, Francisco; Ross V Hyne	2014	Detection and analysis of neonicotinoids in river waters aX80X93 Development of a passive sampler for three commonly used insecticides	Chemosphere (2014), Volume 99, pp. 143-151 ISSN: 0045-6535 Published by: Elsevier Ltd Source Note: 2014 Mar., v. 99	⑰
1007	Kurwadkar, Sudarshan; Wheat, Remington; Mcgahan, Donald G.; Mitchell, Forrest	2014	Evaluation of leaching potential of three systemic neonicotinoid insecticides in vineyard soil	Journal of Contaminant Hydrology (2014) Ahead of Print	⑰
1008	Hladik, Michelle L.; Kolpin, Dana W.; Kuivila, Kathryn M.	2014	Widespread occurrence of neonicotinoid insecticides in streams in a high corn and soybean producing region, USA	Environmental Pollution (Oxford, United Kingdom) (2014), 193, 189-196	⑰
1009	Main, Anson R.; Headley, John V.; Peru, Kerry M.; Michel, Nicole L.; Cessna, Allan J.; Morrissey, Christy A.	2014	Widespread use and frequent detection of neonicotinoid insecticides in wetlands of Canadas Prairie Pothole Region [Erratum to document cited in CA161:497663]	PLoS One (2014), 9(6), e101400/1, 1 pp.	⑰
1010	Qi, Weixiao; Muller, Beat; Pernet-Coudrier, Benoit; Singer, Heinz; Liu, Huijuan; Qu, Jiuhui; Berg, Michael	2014	Organic micropollutants in the Yangtze River: Seasonal occurrence and annual loads	Science of the Total Environment (2014), 472, 789-799	⑰
1011	Sharma, Smriti; Singh, Balwinder	2014	Persistence behaviour of imidacloprid and its metabolites in soil under sugarcane	Environmental Monitoring and Assessment (2014), 186(4), 2281-2288	⑰
1012	Arora, Sumitra; Mukherji, Irani; Kumar, Aman; Tanwar, R. K.	2014	Pesticide residue analysis of soil, water, and grain of IPM basmati rice	Environmental Monitoring and Assessment (2014), 186(12), 8765-8772	⑰
1013	Kurwadkar Sudarshan; Evans Amanda; Dewinne Dustan; White Peter; Mitchell Forrest	2015	Modeling photodegradation kinetics of three systemic neonicotinoids -dinotefuran, imidacloprid and thiamethoxam in aqueous and soil environment.	Environmental toxicology and chemistry / SETAC, (2015 Dec 11) . Electronic Publication Date: 11 Dec 2015	⑱
1014	Main, Anson R.; Michel, Nicole L.; Headley, John V.; Peru, Kerry M.; Morrissey, Christy A.	2015	Ecological and Landscape Drivers of Neonicotinoid Insecticide Detections and Concentrations in Canadas Prairie Wetlands	Environmental Science and Technology (2015), 49(14), 8367-8376	海外モニタリングであり、日本における評価に利用できない。
1015	Fernandez, Diego; Voss, Katharina; Bundschuh, Mirco; Zubrod, Jochen P.; Schaefer, Ralf B.	2015	Effects of fungicides on decomposer communities and litter decomposition in vineyard streams	Science of the Total Environment (2015), 533, 40-48	⑰
1016	Nguyen La; Lamers, M.; Bannwarth, M.; Vien Van Nguyen; Streck, T.	2015	Imidacloprid concentrations in paddy rice fields in northern Vietnam: measurement and probabilistic modeling.	Paddy and Water Environment (2015) , Volume 13, Number 2, pp. 191-203, 71 refs. ISSN: 1611-2490 Published by: Springer, Dordrecht	⑰
1017	Charalampous, Angeliki C.; Machera, Kyriaki; Miliadis, George E.; Koupparis, Michael A.	2015	The spatial and temporal distribution/variation of pesticide residues in Viotikos Kifissos basin before and after the application of a low input crop management system. A three-year study	International Journal of Environmental Analytical Chemistry (2015), 95(13), 1263-1282	海外モニタリングであり、日本における評価に利用できない。
1018	Stenrod, Marianne	2015	Long-term trends of pesticides in Norwegian agricultural streams and potential future challenges in northern climate	Acta Agriculturae Scandinavica Section B: Soil and Plant Science. Supplement 2Acta Agriculturae Scandinavica Section B: Soil and Plant Science (30 Apr 2015) Volume 65, pp. 199-216, 68 refs. CODEN: AASBEV ISSN: 0906-4710 E-ISSN: 1651-1913 DOI: 10.1080/0906	⑰

1019	Schaafsma, Arthur; Limay-Rios, Victor; Baute, Tracey; Smith, Jocelyn; Xue, Yingen	2015	Neonicotinoid insecticide residues in surface water and soil associated with commercial maize (corn) fields in Southwestern Ontario.	PLoS ONE, (24 Feb 2015) Vol. 10, No. 2. arn. e0118139. Refs: 76 E-ISSN: 1932-6203 CODEN: POLNCL	⑰
1020	Allinson, Graeme; Zhang, Pei; Bui, Anh Duyen; Allinson, Mayumi; Rose, Gavin; Marshall, Stephen; Pettigrove, Vincent.	2015	Pesticide and trace metal occurrence and aquatic benchmark exceedances in surface waters and sediments of urban wetlands and retention ponds in Melbourne, Australia.	Environ. Sci. Pollut. Res., Volume 22, Issue 13, Page 10214-10226, Publication Year 2015	⑰
1021	Muenze, Ronald; Orlinskiy, Polina; Gunold, Roman; Paschke, Albrecht; Kaske, Oliver; Beketov, Mikhail A.; Hundt, Matthias; Bauer, Coretta; Schueuermann, Gerrit; Moeder, Monika; Liess, Matthias	2015	Pesticide impact on aquatic invertebrates identified with Chemcatcher passive samplers and the SPEARpesticides index	Science of the Total Environment (2015), 537, 69-80	⑰
1022	Masia, Ana; Campo, Julian; Navarro-Ortega, Alicia; Barcelo, Damia; Pico, Yolanda	2015	Pesticide monitoring in the basin of Llobregat River (Catalonia, Spain) and comparison with historical data	Science of the Total Environment (2015), 503-504, 58-68	⑰
1023	Papadakis, Emmanouil-Nikolaos; Tsaboula, Aggeliki; Kotopoulou, Athina; Kintzikoglou, Katerina; Vryzas, Zisis; Papadopoulou-Mourkidou, Euphemia	2015	Pesticides in the surface waters of Lake Vistonis Basin, Greece: Occurrence and environmental risk assessment	Science of the Total Environment (2015), 536, 793-802	⑰
1024	Marouane, Bouchra; Dahchour, Abdelmalek; Dousset, Sylvie; El Hajjaji, Souad	2015	Monitoring of nitrate and pesticide pollution in Mnasra, Morocco soil and groundwater	Water Environment Research (2015), 87(6), 567-575	⑰
1025	Van Metre Peter C; Alvarez David A; Mahler Barbara J; Nowell Lisa; Sandstrom Mark; Moran Patrick	2016	Complex mixtures of Pesticides in Midwest U.S. streams indicated by POCIS time-integrating samplers.	Environmental pollution (Barking, Essex : 1987), (2016 Sep 30) . Electronic Publication Date: 30 Sep 2016	⑰
1026	Benton, E. P. [Reprint Author]; Grant, J. F.; Mueller, T. C.; Webster, R. J.; Nichols, R. J.	2016	Consequences of imidacloprid treatments for hemlock woolly adelgid on stream water quality in the southern Appalachians.	Forest Ecology and Management, (JAN 15 2016) Vol. 360, pp. 152-158.	⑰ ⑱
1027	Zhang, Qingming; Wang, Caixia	2016	Dissipation dynamics of imidacloprid residue in different saline soils	Advance Journal of Food Science and Technology (2016), 10(5), 348-352	⑰
1028	Tsaboula, Aggeliki; Papadakis, Emmanouil-Nikolaos; Vryzas, Zisis; Kotopoulou, Athina; Kintzikoglou, Katerina; Papadopoulou-Mourkidou, Euphemia	2016	Environmental and human risk hierarchy of pesticides: A prioritization method, based on monitoring , hazard assessment and environmental fate	Environment International (2016) Ahead of Print	海外モニタリングであり、日本における評価に利用できない。
1029	Hladik, Michelle L.; Kolpin, Dana W.	2016	First national-scale reconnaissance of neonicotinoid insecticides in streams across the USA	Environmental Chemistry (2016), 13(1), 12-20	⑰
1030	Ettiene, G.; Bauza, R.; Sandoval, L.; Medina, D.; Raga, J.; Quiros, M.; Petit, Y.; Poleo, N.; Dorado, I.	2016	Sorption study of imidacloprid and thiamethoxam insecticides in soils samples.	Revista de la Facultad de Agronomia, Universidad del Zulia (2016), Volume 33, Number 4, pp. 458-481, 37 refs. ISSN: 2477-9407 Published by: Universidad del Zulia, Facultad de Agronomia, Maracaibo	土壌吸着を調べているが試験法がガイドラインと異なる。
1031	Wettstein, Felix E.; Kasteel, Roy; Garcia Delgado, Maria F.; Hanke, Irene; Huntscha, Sebastian; Balmer, Marianne E.; Poiger, Thomas; Bucheli, Thomas D.	2016	Leaching of the Neonicotinoids Thiamethoxam and Imidacloprid from Sugar Beet Seed Dressings to Subsurface Tile Drains	Journal of Agricultural and Food Chemistry (2016), 64(33), 6407-6415	⑱(暗渠排水へのリーチング)
1032	Sadaria, Akash M.; Supowit, Samuel D.; Halden, Rolf U.	2016	Mass Balance Assessment for Six Neonicotinoid Insecticides During Conventional Wastewater and Wetland Treatment: Nationwide Reconnaissance in United States Wastewater	Environmental Science and Technology (2016), 50(12), 6199-6206	⑰

1033	Rafique, Nazia; Tariq, Saadia R.; Ahmed, Dildar	2016	Monitoring and distribution patterns of pesticide residues in soil from cotton/wheat fields of Pakistan	Environmental Monitoring and Assessment (2016), 188(12), 1-12	⑰
1034	Lopez-Doval, Julio C.; Montagner, Cassiana C.; De Alburquerque, Anjaina Fernandes; Moschini-Carlos, Viviane; Umbuzeiro, Gisela; Pompeo, Marcelo	2016	Nutrients, emerging pollutants and pesticides in a tropical urban reservoir: Spatial distributions and risk assessment	Science of the Total Environment (2016) Ahead of Print	⑰
1035	Sahoo, S. K.; Balwinder Singh; Singh, B.	2016	Persistence and metabolism of imidacloprid after seed treatment in cotton field soil.	Agricultural Research Journal (2016), Volume 53, Number 1, pp. 57-61, 17 refs. ISSN: 2395-1435 DOI: 10.5958/2395-146X.2016.00009.0 Published by: Punjab Agricultural University, Ludhiana	⑰
1036	Ccanccapa, Alexander; Masia, Ana; Navarro-Ortega, Alicia; Pico, Yolanda; Barcelo, Damia	2016	Pesticides in the Ebro River basin: Occurrence and risk assessment	Environmental Pollution (Oxford, United Kingdom) (2016), 211, 414-424	⑰
1037	Jin, Jie; Kang, Mingjie; Sun, Ke; Pan, Zezhen; Wu, Fengchang; Xing, Baoshan	2016	Properties of biochar-amended soils and their sorption of imidacloprid, isoproturon, and atrazine	Science of the Total Environment (2016), 550, 504-513	バイオ炭添加による土壌吸着への影響を見ており、リスク評価に利用できない。
1038	Christoffels, Ekkehard; Brunsch, Andrea; Wunderlich-Pfeiffer, Jens; Mertens, Franz Michael	2016	Monitoring micropollutants in the Swist river basin	Water Science and Technology (2016), 74(10), 2280-2296	⑰
1039	Abdel-Ghany, Maha F.; Hussein, Lobna A.; El Azab, Noha F.; El-Khatib, Ahmed H.; Linscheid, Michael W.	2016	Simultaneous determination of eight neonicotinoid insecticide residues and two primary metabolites in cucumbers and soil by liquid chromatography-tandem mass spectrometry coupled with QuEChERS	Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences (2016), 1031, 15-28	⑤ ⑰
1040	Ghazala Yaqub; Kashaf Iqbal; Zubi Sadiq; Almas Hamid	2017	Rapid determination of residual pesticides and polyaromatic hydrocarbons in different environmental samples by HPLC.	Pakistan Journal of Agricultural Sciences (2017) , Volume 54, Number 2, pp. 355-361, 28 refs. ISSN: 0552-9034 Published by: University of Agriculture, Faisalabad	⑤ ⑰
1041	Lehmann, Edouard; Fargues, Morgan; Nfon Dibie, Jean-Jacques; Konate, Yacouba; De Alencastro, Luiz Felippe	2017	Assessment of water resource contamination by pesticides in vegetable-producing areas in Burkina Faso	Environmental Science and Pollution Research (2017) Ahead of Print	⑰
1042	Nowell, Lisa H; Patrick W Moran; Travis S Schmidt; Julia E Norman; Naomi Nakagaki; Megan E Shoda; Barbara J Mahler; Peter C Van Metre; Wesley W Stone; Mark W Sandstrom; Michelle L Hladik	2017	Complex mixtures of dissolved pesticides show potential aquatic toxicity in a synoptic study of Midwestern U.S. streams	Science of the total environment (2017) ISSN: 0048-9697 Published by: Elsevier B.V. Source Note: 2017,	⑰ ⑱
1043	Ensminger, Michael P.; Vasquez, Martice; Tsai, Hsing-Ju; Mohammed, Sarah; Van Scoy, A.; Goodell, Korena; Cho, Gail; Goh, Kean S.	2017	Continuous low-level aquatic monitoring (CLAM) samplers for pesticide contaminant screening in urban runoff: Analytical approach and a field test case	Chemosphere (2017), 184, 1028-1035	⑰
1044	Arnnok, Prapha; Patdhanagul, Nopbhasinthu; Burakham, Rodjana	2017	Dispersive solid-phase extraction using polyaniline-modified zeolite NaY as a new sorbent for multiresidue analysis of pesticides in food and environmental samples	Talanta (2017), 164, 651-661	⑰
1045	Struger, John; Grabuski, Josey; Cagampan, Steve; Sverko, Ed; Mcgoldrick, Daryl; Marvin, Christopher H.	2017	Factors influencing the occurrence and distribution of neonicotinoid insecticides in surface waters of southern Ontario, Canada	Chemosphere (2017), 169, 516-523	⑰
1046	Leiva, Jorge A.; Nkedi-Kizza, Peter; Morgan, Kelly T.; Kadyampakeni, Davie M.	2017	Imidacloprid transport and sorption nonequilibrium in single and multilayered columns of Immokalee fine sand.	PLoS ONE, (August 2017) Vol. 12, No. 8. arn. e0183767. Refs: 60 E-ISSN: 1932-6203 CODEN: POLNCL	⑰

1047	Houbraken, Michael; Habimana, Valens; Senaeve, David; Lopez-Davila, Edelbis; Spanoghe, Pieter	2017	Multi - residue determination and ecological risk assessment of pesticides in the lakes of Rwanda.	Science of the Total Environment, (15 Jan 2017) Vol. 576, pp. 888-894. Refs: 48 ISSN: 0048-9697; E-ISSN: 1879-1026 CODEN: STEVA8	海外モニタリングであり、日本における評価に利用できない。
1048	Pook, Chris; Gritcan, Iana	2017	Neonicotinoid insecticide residues in New Zealand maize paddock soil	PeerJ PrePrints, 20170710 E-ISSN: 2167-9843 DOI: 10.7287/peerj.preprints.2919v1 Published by: PeerJ, Inc., San Diego	⑰
1049	Sadaria, Akash M.; Sutton, Rebecca; Moran, Kelly D.; Teerlink, Jennifer; Brown, Jackson Vanfleet; Halden, Rolf U.	2017	Passage of fiproles and imidacloprid from urban pest control uses through wastewater treatment plants in northern California, USA	Environmental Toxicology and Chemistry (2017), 36(6), 1473-1482	⑰
1050	Pascual Aguilar, Juan Antonio; Andreu, Vicente; Campo, Julian; Pico, Yolanda; Masia, Ana	2017	Pesticide occurrence in the waters of Jucar River, Spain from different farming landscapes.	Science of the Total Environment, (DEC 31 2017) Vol. 607, pp. 752-760.	⑰
1051	Leach, Heather; Wise, John C.; Isaacs, Rufus	2017	Reduced ultraviolet light transmission increases insecticide longevity in protected culture raspberry production	Chemosphere (2017), 189, 454-465	⑰ UVカットフィルムの有無による残留性を調べている。
1052	Main, Anson R.; Fehr, Jessica; Liber, Karsten; Headley, John V.; Peru, Kerry M.; Morrissey, Christy A.	2017	Reduction of neonicotinoid insecticide residues in Prairie wetlands by common wetland plants	Science of the Total Environment (2017), 579, 1193-1202	⑱
1053	Saby, Marion; Larocque, Marie; Pinti, Daniele L.; Barbecot, Florent; Gagne, Sylvain; Barnetche, Diogo; Cabana, Hubert	2017	Regional assessment of concentrations and sources of pharmaceutically active compounds, pesticides, nitrate, and E. coli in post-glacial aquifer environments (Canada)	Science of the Total Environment (2017), 579, 557-568	⑰
1054	Aisha, Al Ashi; Hneine, Wael; Mokh, Samia; Devier, Marie-Helene; Budzinski, Helen; Jaber, Farouk	2017	Monitoring of 45 pesticides in Lebanese surface water using polar organic chemical integrative sampler (POCIS)	Ocean Science Journal (2017), 52(3), 455-466	⑰
1055	Diamond, Miriam L.	2017	Surprising Degradation Products from an Under-Fire Insecticide	ACS Central Science (2017), 3(2), 97-98	詳細な記述の無い速報
1056	Rashid, Mohd Fawwaz Mohd; Ab Majid, Abdul Hafiz	2018	DEGRADATION RATE AND HALF-LIFE OF TERMITICIDES IN MALAYSIAN SANDY LOAM SOIL.	Malaysian Applied Biology, (JUN 2018) Vol. 47, No. 3, pp. 71-77.	⑭(シロアリ剤)
1057	Zhou, Ying; Lu, Xiaoxia; Fu, Xiaofang; Yu, Bo; Wang, Dan; Zhao, Cheng; Zhang, Qi; Tan, Ying; Wang, Xinyi	2018	Development of a fast and sensitive method for measuring multiple neonicotinoid insecticide residues in soil and the application in parks and residential areas	Analytica Chimica Acta (2018), 1016, 19-28	⑰
1058	Montiel-Leon, Juan Manuel; Duy, Sung Vo; Munoz, Gabriel; Amyot, Marc; Sauve, Sebastien	2018	Evaluation of on-line concentration coupled to liquid chromatography tandem mass spectrometry for the quantification of neonicotinoids and fipronil in surface water and tap water	Analytical and Bioanalytical Chemistry (2018), 410(11), 2765-2779	⑤ ⑰
1059	Byholm, Patrik; Makelainen, Sanna; Santangeli, Andrea; Goulson, Dave	2018	First evidence of neonicotinoid residues in a long-distance migratory raptor, the European honey buzzard (Pernis apivorus)	Science of the Total Environment (2018), 639, 929-933	猛禽類におけるネオニコチノイドのモニタリング。
1060	Berton, Andre; Brugnera, Michelle F.; Dores, Eliana F. G. C.	2018	Grab and passive sampling applied to pesticide analysis in the Sao Lourenco river headwater in Campo Verde-MT, Brazil	Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes (2018), 53(4), 237-245	⑰
1061	Bishop, Christine A.; Moran, Alison J.; Toshack, Michelle C.; Elle, Elizabeth; Maisonneuve, France; Elliott, John E.	2018	Hummingbirds and bumble bees exposed to neonicotinoid and organophosphate insecticides in the Fraser Valley, British Columbia, Canada	Environmental Toxicology and Chemistry (2018) Ahead of Print	⑰

1062	Satkowski, Laura E.; Goyne, Keith W.; Anderson, Stephen H.; Lerch, Robert N.; Webb, Elisabeth B.; Snow, Daniel D.	2018	Imidacloprid sorption and transport in cropland, grass buffer, and riparian buffer soils	Vadose Zone Journal (2018), 17(1), 1-12	⑰
1063	Carpenter, Corey M. G.; Helbling, Damian E.	2018	Widespread Micropollutant Monitoring in the Hudson River Estuary Reveals Spatiotemporal Micropollutant Clusters and Their Sources	Environmental Science and Technology (2018), 52(11), 6187-6196	⑰
1064	Hladik, Michelle L.; Corsi, Steven R.; Kolpin, Dana W.; Baldwin, Austin K.; Blackwell, Brett R.; Cavallin, Jenna E.	2018	Year-round presence of neonicotinoid insecticides in tributaries to the Great Lakes, USA	Environmental Pollution (Oxford, United Kingdom) (2018), 235, 1022-1029	⑰
1065	Sultana, Tamanna; Murray, Craig; Kleywegt, Sonya; Metcalfe, Chris D.	2018	Neonicotinoid pesticides in drinking water in agricultural regions of southern Ontario, Canada	Chemosphere (2018), 202, 506-513	⑰
1066	Koreje, Kenneth Otieno; Kandie, Faith Jebiwot; Vergeynst, Leendert; Abira, Margaret Akinyi; Van Langenhove, Herman; Okoth, Maurice; Demeestere, Kristof	2018	Occurrence, fate and removal of pharmaceuticals, personal care products and pesticides in wastewater stabilization ponds and receiving rivers in the Nzoia Basin, Kenya	Science of the Total Environment (2018), 637-638, 336-348	⑰
1067	Wiggins, Greg; Benton, Elizabeth; Grant, Jerome; Kerr, Marie; Lambdin, Paris	2018	Short-term detection of imidacloprid in streams after applications in forests.	Journal of Environmental Quality, (1 May 2018) Vol. 47, No. 3, pp. 571-578. Refs: 49 ISSN: 0047-2425; E-ISSN: 1537-2537 CODEN: JEVQAA	⑰
1068	Furihata, Shunsuke; Kasai, Atsushi; Hidaka, Kazumasa; Ikegami, Makihiko; Ohnishi, Hitoshi; Goka, Koichi	2019	Ecological risks of insecticide contamination in water and sediment around off-farm irrigated rice paddy fields.	Environmental Pollution, (August 2019) pp. 628-638. Refs: 50 ISSN: 0269-7491; E-ISSN: 1873-6424 CODEN: ENPOEK	⑪
1069	Spirhanzlova, Petra; Fini, Jean-Baptiste; Demeneix, Barbara; Lardy-Fontan, Sophie; Vaslin-Reimann, Sophie; Lalere, Beatrice; Guma, Nelson; Tindall, Andrew; Krief, Sabrina	2019	Composition and endocrine effects of water collected in the Kibale national park in Uganda	Environmental Pollution (Oxford, United Kingdom) (2019), 251, 460-468	複数の農薬を含む河川水のED作用を見ており、イミダクロプリドそのものによる影響は見られていない。河川水の分析結果は、日本の代表的な使用方法／使用条件における評価に活用できない(ほ場条件、土性等)。
1070	Pan, Lixiang; Feng, Xiaoxiao; Cao, Meng; Zhang, Shiwen; Huang, Yuanfang; Xu, Tianheng; Jing, Jing; Zhang, Hongyan	2019	Determination and distribution of pesticides and antibiotics in agricultural soils from northern China	RSC Advances (2019), 9(28), 15686-15693	⑰
1071	Condota Borba De Souza, Laura Fernanda; Montagner, Cassiana Caroline; Almeida, Mariana Bortholazzi; Kuroda, Emilia Kiyomi; Vidal, Cristiane; Freire, Roberta Lemos Condota Borba De Souza, Laura Fernanda Montagner, Cassiana Caroline; Vidal, Cristiane Almeid	2019	Determination of pesticides in the source and drinking waters in Londrina, Parana, Brazil	SEMINA-CIENCIAS AGRARIAS, (MAY-JUN 2019) Vol. 40, No. 3, pp. 1153-1163. ISSN: 1676-546X.	⑰
1072	Williams, Nate; Sweetman, Jon	2019	Distribution and Concentration of Neonicotinoid Insecticides on Waterfowl Production Areas in West Central Minnesota.	Wetlands, (APR 2019) Vol. 39, No. 2, pp. 311-319. ISSN: 0277-5212. E-ISSN: 1943-6246.	⑰
1073	Boye, K.; Lindstroem, B.; Bostroem, G.; Kreuger, J.	2019	Long-term data from the swedish national environmental monitoring program of pesticides in surface waters	Journal of Environmental Quality (2019), 48(4), 1109-1119	⑰
1074	Sousa, Joao C. G.; Ribeiro, Ana R.; Barbosa, Marta O.; Ribeiro, Claudia; Tiritan, Maria E.; Pereira, M. Fernando R.; Silva, Adrian M. T.	2019	Monitoring of 17 EU watch list contaminants of emerging concern in the Ave and the Sousa Rivers	Science of the Total Environment (2019), 649, 1083-1095	⑰

1075	Xiong, Jingjing; Wang, Zhen; Ma, Xue; Li, Huizhen; You, Jing	2019	Occurrence and risk of neonicotinoid insecticides in surface water in a rapidly developing region: Application of polar organic chemical integrative samplers	Science of the Total Environment (2019), 648, 1305-1312	⑰
1076	Silva, Vera; Mol, Hans G. J.; Zomer, Paul; Tienstra, Marc; Ritsema, Coen J.; Geissen, Violette	2019	Pesticide residues in European agricultural soils - A hidden reality unfolded	Science of the Total Environment (2019), 653, 1532-1545	⑰
1077	Rodrigues, Elsa T.; Alpendurada, Maria Fatima; Guimaraes, Ana; Avo, Romeu; Ferreira, Barbara; Pardal, Miguel A.	2019	The environmental condition of an estuarine ecosystem disturbed by pesticides	Environmental Science and Pollution Research (2019), 26(23), 24075-24087	⑰
1078	Fonseca, Eddie; Renau-Prunonosa, Arianna; Ibanez, Maria; Gracia-Lor, Emma; Estrela, Teodoro; Jimenez, Sara; Perez-Martin, Miguel Angel; Gonzalez, Francisco; Hernandez, Felix; Morell, Ignacio	2019	Investigation of pesticides and their transformation products in the Jucar River Hydrographical Basin (Spain) by wide-scope high-resolution mass spectrometry screening	Environmental Research (2019), 177, 108570	⑰
1079	Husk, Barry; Sanchez, Juan Sebastian; Leduc, Roland; Takser, Larissa; Savary, Olivier; Cabana, Hubert	2019	Pharmaceuticals and pesticides in rural community drinking waters of Quebec, Canada - a regional study on the susceptibility to source contamination	Water Quality Research Journal (2019), 54(2), 88-103	⑰
1080	Mohd Fawwaz, M. R.; Abdul Hafiz, A. M.	2020	Effect of different temperatures on the degradation rate and half - life of termiticides in tropical soils under laboratory condition.	Malaysian Journal of Soil Science (2020) , Volume 24, pp. 33-48, many ref. ISSN: 1394-7990 Published by: Malaysian Society of Soil Science, Serdang	⑭
1081	Diamanti, Konstantina S.; Alygizakis, Nikiforos A.; Nika, Maria-Christina; Oswaldova, Martina; Oswald, Peter; Thomaidis, Nikolaos S.; Slobodnik, Jaroslav	2020	Assessment of the chemical pollution status of the Dniester River Basin by wide-scope target and suspect screening using mass spectrometric techniques	Analytical and Bioanalytical Chemistry (2020) Ahead of Print	海外モニタリングであり、日本における評価に利用できない。
1082	Guarda, Patricia M.; Pontes, Antonina M. S.; Domiciano, Raquel De S.; Gualberto, Larissa Da S.; Mendes, Danylo B.; Guarda, Emerson A.; Da Silva, Jose E. C.	2020	Assessment of Ecological Risk and Environmental Behavior of Pesticides in Environmental Compartments of the Formoso River in Tocantins, Brazil	Archives of Environmental Contamination and Toxicology (2020) Ahead of Print	⑰
1083	Bhattacherjee, Anup Kr.; Garg, Neelima; Shukla, Pradeep Kr.; Singh, Balvindra; Vaish, Supriya; Dikshit, Abhay	2020	Bacterial bioremediation of imidacloprid in mango orchard soil by Pseudomonas mosselii strain NG1	International Journal of Current Microbiology and Applied Sciences (2020), 9(10), 1150-1159	⑱
1084	Aseperi Adeniyi K; Busquets Rosa; Hooda Peter S; Cheung Philip C W; Barker James	2020	Behaviour of neonicotinoids in contrasting soils.	Journal of environmental management, (2020 Sep 12) Vol. 276, pp. 111329. Electronic Publication Date: 12 Sep 2020	土壌吸着性試験を実施しているが、土壌を分析しておらず物質収支が不明。
1085	Schreiner, Verena C.; Fernandez, Diego; Vermeirssen, Etienne L. M.; Bandow, Nicole; Munoz, Katherine; Schaefer, Ralf B.	2020	Calibration and field application of passive sampling for episodic exposure to polar organic pesticides in streams	Environmental Pollution, (OCT 2020) Vol. 265, No. Part B, pp. Article No.: 115335.	⑰
1086	Solaun, Oihana; Rodriguez, Jose German; Menchaca, Iratxe; Lopez-Garcia, Ester; Martinez, Elena; Zonja, Bozo; Postigo, Cristina; Lopez De Alda, Miren; Barcelo, Damia; Borja, Angel; Manzanos, Alberto; Larreta, Joana	2020	Contaminants of emerging concern in the Basque coast (N Spain): Occurrence and risk assessment for a better monitoring and management decisions	Science of the Total Environment (2020) Ahead of Print	⑰
1087	Rodriguez-Liebana, Jose Antonio; Pena, Aranzazu	2020	Differences in the sorption kinetics of various non-ionisable pesticides in a limited number of agricultural soils from the Mediterranean basin.	Journal of Environmental Management, (15 December 2020) Vol. 276. arn. 111336. Refs: 66 ISSN: 0301-4797; E-ISSN: 1095-8630 CODEN: JEVMAW	イミダクロプリドについて新規のデータが得られていない。

1088	Barbieri, Maria Vittoria; Peris, Andrea; Postigo, Cristina; Moya-Garces, Alba; Monllor-Alcaraz, Luis Simon; Rambla-Alegre, Maria; Eljarrat, Ethel; Lopez De Alda, Miren	2020	Evaluation of the occurrence and fate of pesticides in a typical Mediterranean delta ecosystem (Ebro River Delta) and risk assessment for aquatic organisms	Environmental Pollution (Oxford, United Kingdom) (2020) Ahead of Print	⑰
1089	Hinz, Francisca Ordonez; Van Santen, Edzard; Fisher, Paul R.; Wilson, P. Chris	2020	Losses of selected pesticides in drainage water from containerized ornamental plants	Journal of Environmental Quality (2020), 49(5), 1334-1346	⑰
1090	Selahle Shirley K; Waleng Ngwako J; Mpupa Anele; Nomngongo Philiswa N	2020	Magnetic Solid Phase Extraction Based on Nanostructured Magnetic Porous Porphyrin Organic Polymer for Simultaneous Extraction and Preconcentration of Neonicotinoid Insecticides From Surface Water.	Frontiers in chemistry, (2020) Vol. 8, pp. 555847. Electronic Publication Date: 16 Sep 2020	⑤ ⑰
1091	Wang Xinran; Goulson Dave; Chen Lanzhen; Zhang Jinzhen; Zhao Wen; Jin Yue; Yang Shupeng; Li Yi; Zhou Jinhui	2020	Occurrence of Neonicotinoids in Chinese Apiculture and a Corresponding Risk Exposure Assessment.	Environmental science and technology, (2020 Mar 04) . Electronic Publication Date: 4 Mar 2020	⑰
1092	Acayaba Raphael Danna; De Albuquerque Anjaina Fernandes; Ribessi Rafael Luis; Umbuzeiro Gisela De Aragao; Montagner Cassiana Carolina	2020	Occurrence of pesticides in waters from the largest sugar cane plantation region in the world.	Environmental science and pollution research international, (2020 Nov 06) . Electronic Publication Date: 6 Nov 2020	⑰
1093	Faundez Urbina, C.A.; Van Dam, J.C.; Tang, D.W.S.; Ritsema, C.J.; Van Den Berg, F.	2020	Parameter sensitivity of SWAP-PEARL models for pesticide leaching in macroporous soils	Vadose Zone Journal (2020) Volume 19, Number 1, arn: e20075, 40 refs. DOI: 10.1002/vzj2.20075 Published by: John Wiley and Sons Inc,	⑮
1094	Barizon, Robson R. M.; Figueiredo, Ricardo De Oliveira; De Souza Dutra, Debora Renata Cassoli; Regitano, Jussara Borges; Ferracini, Vera Lucia	2020	Pesticides in the surface waters of the Camanducaia River watershed, Brazil	Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes (2020), 55(3), 283-292	⑰
1095	Pan, Xin; Wang, Zhang Jun; Chen, Chao; Li, Hui; Li, Xian Xin; Wang, Xiu Fen; Zhuang, Quan Feng; Zhang, Ya Nan	2020	Research on the Distribution of Neonicotinoid and Fipronil Pollution in the Yangtze River by High-Performance Liquid Chromatography	Analytical Methods (2020) Ahead of Print	⑰
1096	Mas, Laura I.; Aparicio, Virginia C.; De Geronimo, Eduardo; Costa, Jose L.	2020	Pesticides in water sources used for human consumption in the semiarid region of Argentina	SN Applied Sciences (2020), 2(4), 691	⑰
1097	Anim, Alfred K.; Thompson, Kristie; Duodu, Godfred O.; Tscharke, Ben; Birch, Gavin; Goonetilleke, Ashantha; Ayoko, Godwin A.; Mueller, Jochen F.	2020	Pharmaceuticals, personal care products, food additive and pesticides in surface waters from three Australian east coast estuaries (Sydney, Yarra and Brisbane)	Marine Pollution Bulletin (2020), 153, 111014	⑰
1098	Sharma, Teena; Kaur, Manpreet; Sobti, Amit; Rajor, Anita; Toor, Amrit Pal Sharma, Teena Sharma, Teena; Rajor, Anita Kaur, Manpreet; Toor, Amrit Pal Sobti, Amit; Toor, Amrit Pal	2020	Sequential microbial-photocatalytic degradation of imidacloprid	ENVIRONMENTAL ENGINEERING RESEARCH, (2020 AUG 2020) Vol. 25, No. 4, pp. 597-604. ISSN: 1226-1025.	⑱
1099	Voigt, Melanie; Jaeger, Martin	2021	Structure and QSAR analysis of photoinduced transformation products of neonicotinoids from EU watchlist for ecotoxicological assessment.	Science of the Total Environment, (10 January 2021) Vol. 751. arn. 141634. Refs: 96 ISSN: 0048-9697; E-ISSN: 1879-1026 CODEN: STEVA8	太陽光よりも低波長領域を含む水銀ランプを使用しており、生成した光分解物を適切には評価できない。
1100	Borrull, Josep; Colom, Agusti; Fabregas, Josepa; Borrull, Francesc; Pocurull, Eva	2021	Presence, behaviour and removal of selected organic micropollutants through drinking water treatment	Chemosphere (2021), 276, 130023	⑱

1101	Pico, Yolanda; Campo, Julian; Alfarhan, Ahmed H.; El-Sheikh, Mohamed A.; Barcelo, Damia	2021	A reconnaissance study of pharmaceuticals, pesticides, perfluoroalkyl substances and organophosphorus flame retardants in the aquatic environment, wild plants and vegetables of two Saudi Arabia urban areas: Environmental and human health risk assessment	Science of the Total Environment (2021), 776, 145843	海外での各種物質のモニタリングデータに基づく毒性及び環境毒性評価。
1102	Varadarajan, Rajagopalan; Muthupandiyan, Sivasharmina; Kannan, Jeyahamsini Manika; Thangaraju, Santhoshkumar; Thozhan, Gajendran Varadarajan, Rajagopalan; Thangaraju, Santhoshkumar Thozhan, Gajendran	2021	EFFECTS OF NEONICOTINOID IN SURFACE WATER AND SOIL IN SUGARCANE FIELD AT ARIYALUR AND NAMAKKAL DISTRICTS	ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, (2021 FEB 2021) Vol. 20, No. 2, pp. 283-290. ISSN: 1582-9596.	⑰
1103	Dong, Huiyu; Xu, Lei; Mao, Yuanxiang; Wang, Yan; Duan, Shule; Lian, Junfeng; Li, Jin; Yu, Jianwei; Qiang, Zhimin	2021	Effective abatement of 29 pesticides in full-scale advanced treatment processes of drinking water: From concentration to human exposure risk.	Journal of Hazardous Materials, (5 February 2021) Vol. 403. arn. 123986. Refs: 58 ISSN: 0304-3894; E-ISSN: 1873-3336 CODEN: JHMAD9	水道水からの農薬の除去であり、日本のリスク評価には利用できない。
1104	Richards, Laura A.; Kumari, Rupa; White, Debbie; Parashar, Neha; Kumar, Arun; Ghosh, Ashok; Kumar, Sumant; Chakravorty, Biswajit; Lu, Chuanhe; Civil, Wayne; Lapworth, Dan J.; Krause, Stefan; Polya, David A.; Gooddy, Daren C.	2021	Emerging organic contaminants in groundwater under a rapidly developing city (Patna) in northern India dominated by high concentrations of lifestyle chemicals	Environmental Pollution (Oxford, United Kingdom) (2021), 268(Part_A), 115765	⑰
1105	Sefiloglu, Feride Oyku; Tezel, Ulas; Balc Oglu, Isil Akmehmet	2021	Validation of an Analytical Workflow for the Analysis of Pesticide and Emerging Organic Contaminant Residues in Paddy Soil and Rice	Journal of Agricultural and Food Chemistry (2021) Ahead of Print	⑰
1106	Miller, Thomas H.; Ng, Keng Tiong; Lamphiere, Aaron; Cameron, Tom C.; Bury, Nicolas R.; Barron, Leon P.	2021	Multicompartment and cross-species monitoring of contaminants of emerging concern in an estuarine habitat	Environmental Pollution (Oxford, United Kingdom) (2021), 270, 116300	⑰
1107	Satiroff, J. A.; Messer, T. L.; Mittelstet, A. R.; Snow, D. D.	2021	Pesticide occurrence and persistence entering recreational lakes in watersheds of varying land uses.	Environmental Pollution (2021) , Volume 273 ISSN: 0269-7491 DOI: 10.1016/j.envpol.2020.116399 Published by: Elsevier Ltd, Oxford	⑰
1108	Bradley, Paul M.; Kulp, Matt A.; Huffman, Bradley J.; Romanok, Kristin M.; Smalling, Kelly L.; Breitmeyer, Sara E.; Clark, Jimmy M.; Journey, Celeste A.	2021	Reconnaissance of cumulative risk of pesticides and pharmaceuticals in Great Smoky Mountains National Park streams	Science of the Total Environment (2021), 781, 146711	⑰

a: 下線を付した文献は第1段階で適合性なしと判断していたが、リスク評価機関・リスク管理機関の指摘により第2段階まで評価し、2023年12月の改訂時に本表に追加したもの。

b: 数字および記号は3(1)及び(2)に記載した判断理由を示す。

公表文献調査報告書

イミダクロプリド

別添 3

適合性評価の第 2 段階で「区分 a」「区分 b」「区分 c」へ分類された論文リストとその理由

別添 3-1

適合性評価の第 2 段階で「区分 a」「区分 b」「区分 c」へ分類された論文リストとその理由：ヒトに対する毒性

No.[a]	文献ファイル名	著者	出版年	論文表題	掲載誌名、号、ページ等	適合性	判断理由
1	M-552403-01-1	Harada Kouji H; Tanaka Keiko; Sakamoto Hiroko; Imanaka Mie; Niisoe Tamon; Hitomi Toshiaki; Kobayashi Hatasu; Okuda Hiroko; Inoue Sumiko; Kusakawa Koichi; Oshima Masayo; Watanabe Kiyohiko; Yasojima Makoto; Takasuga Takumi; Koizumi Akio	2016	Biological Monitoring of Human Exposure to Neonicotinoids Using Urine Samples, and Neonicotinoid Excretion Kinetics.	PloS one, (2016) Vol. 11, No. 1, pp. e0146335. Electronic Publication Date: 5 Jan 2016	a	信頼性あり(制限あり) 過去、将来の推定はできないが、このヒトで実施されたこのバイオモニタリング研究/横断研究は、ヒトでのトキシコキネティクスに関する情報を提供する可能性はあるものと考える。
2	M-547417-01-1	Preeti Bagri; Vinod Kumar; Sikka, A. K.; Punia, J. S.; Bagri, P.; Kumar, V.	2013	Preliminary acute toxicity study on imidacloprid in Swiss albino mice .	Veterinary World (2013), Volume 6, Number 12, pp. 955-959, 25 refs. ISSN: 0972-8988 DOI: 10.14202/vetworld.2013.955-959 Published by: Veterinary World, Rajkot	b	非GLP/準拠したガイドラインの記載なし 不純物の情報なし 片性（雄）のみの実施　飼育環境条件の情報が不充分（湿度，餌、飲水，単/群飼育等） 調製溶媒が不明，対照群の詳細が不明 用量段階；一用量（最大耐量として110mg/kg体重が設定されている。） 体重に統計学的分析結果が記載されていない。
3	M-772243-01-1	Lonare, M.K.; Kumar, Manoj; More, A.; Telang, A.G.	2020	Toxicological investigation of single oral dose administration of imidacloprid in Male Wistar rats .	Toxicology International, (2020) Vol. 26, No. 1, pp. 8-14. Refs: 33 ISSN: 0971-6580; E-ISSN: 0976-5131	b	非GLP/MTDを求めるためにOECD423に準拠との記載あり 不純物の情報なし 片性（雄）のみの実施 用量段階；陰性対照（溶媒及び脱イオン水）＋２被験物質投与群, 投与容量の記載なし 死亡の情報がなく、また剖検を実施していない。LD50値及び無毒性量が求められていない。現行の急性参照量を見直すための情報は含まれていない。

4	M-769005-01-1	Reda, K.; Abdel-Razik	2018	Effect of Nigella sativa oil on the imidacloprid induced toxicity in male albino mice .	Alexandria Journal of Agricultural Sciences (2018) , Volume 63, Number 4, pp. 239-250, many ref. ISSN: 0044-7250 Published by: Faculty of Agriculture, Alexandria University, Alexandria	b	イミダクロプリドとNigella sativa oil(NS)の併用による影響（イミダクロプリドの毒性緩和の有無)に主眼点がおかれている。 非GLP/準拠したガイドラインの記載なし 不純物の情報なし 片性(雄)のみの実施　飼育環境条件の情報が不充分（餌、飲水，単/群飼育等） 投与液の調製時期が不明，投与容量不明 用量段階；イミダクロプリド単独は一用量(2.6mg/kg体重/日) 血液生化学検査、臓器重量に影響が認められているが、用量に依存している変化かどうか、また背景データーとの比較が不可能。 病理組織学的検査の頻度が記載されていない。 NSとの併用によりイミダクロプリドの毒性が緩和されると報告されているが、その理由は記載されていない。 GLP下で実施されたマウス発がん性試験（5.5.3/01)におけるNOAELは65.6mg/kg体重/日と設定されており、今回の結果との差が大きい。GLP試験を覆すほどの情報、条件に乏しい。
5	M-766174-01-1	Yang, Guiling; Yuan, Xianling; Jin, Cuiyuan; Wang, Dou; Wang, Yanhua; Miao, Wenyu; Jin, Yuanxiang	2020	Imidacloprid disturbed the gut barrier function and interfered with bile acids metabolism in mice	Environmental Pollution (Oxford, United Kingdom) (2020), 266(Part_1), 115290	b	非GLP/準拠したガイドラインの記載なし 不純物の情報なし。馴化期間の記載なし。片性(雄)のみ実施。一般観察、摂餌量、飲水量，体重増加量などの記載なし。 飲水投与であるが、水への溶解性の検討，濃度分析の実施の有無あるいは日時，分析方法の情報が記載されていない。 30mg/L(5mg/kg体重/日)群で、胆汁プロファイル、腸管バリアなどに影響を及ぼすことが記載されているが、GLP下でOECD451に準拠して実施しているマウス発がん性試験(5.5.3/01)において、最高用量群である208.2mg/kg体重/日群においても、文献で示されているようなASAT、ALPに影響はなく、肝臓対体重比の低下も認められていない。 低用量群でも低用量群でも統計学的な有意差が認められているパラメーターもあるが、明瞭な用量相関性が認められておらず、背景データーが利用できないことから、生物学的な有意性があるかどうかについて明らかではない。
6	M-769056-01-1	Sonphule, A. M.; Karikalan, M.; Mohan, S. C.; Verma, M. R.; Telang, A. G.; Sharma, A. K.	2019	Effect of imidacloprid on growth performance and haemato-biochemical parameters in male Wistar rats .	Indian Journal of Veterinary Pathology (2019) , Volume 43, Number 1, pp. 38-42 ISSN: 0250-4758 DOI: 10.5958/0973-970X.2019.00008.7 Published by: Indian Association of Veterinary Pathologists, Izatnagar	b	非GLP/用量設定のみOECD42110に基づくとの記載あり。 眼にPorphyriaが認められたとあるが、登録のために実施されたGLP下でまた適切なGuidelineに基づいて実施された試験成績では認められていない。 また本試験の成績から現行のリスク評価パラメータに影響を与えないものと考えられる。

7	M-768997-01-1	Ince, Sinan; Kucukkurt, Ismail; Demirel, Hasan Huseyin; Turkmen, Ruhi; Zemheri, Fahriye; Akbel, Erten	2013	Corrigendum to The role of thymoquinone as antioxidant protection on oxidative stress induced by imidacloprid in male and female Swiss albino mice (Toxicological and Environmental Chemistry, (2013), 95, 2 (318-329), 10.1080/02772248.2013.764672)	Toxicological and Environmental Chemistry (Mar 2013) Volume 95, Number 3, pp. 541 CODEN: TECSDY ISSN: 0277-2248 E-ISSN: 1029-0486 DOI: 10.1080/02772248.2013.784550 Published by: Taylor and Francis Ltd., 4 Park Square, Milton Park, Abingdon, Oxfordshire, OX14 4RN (GB)	b	非GLP/準拠した試験ガイドライン記載なし イミダクロプリドの設定用量は1用量のため、用量相関性の確認ができない。溶媒対照群とイミダクロプリド群の媒体が違う。
8	M-766178-01-1	Katic Anja; Kasuba Vilena; Kopjar Nevenka; Lovakovic Blanka Tariba; Marjanovic Cermak Ana Marija; Mendas Gordana; Micek Vedran; Milic Mirta; Pavicic Ivan; Pizent Alica; Zunec Suzana; Zeljezic Davor	2020	Effects of low-level imidacloprid oral exposure on cholinesterase activity, oxidative stress responses, and primary DNA damage in the blood and brain of male Wistar rats.	Chemico-biological interactions, (2020 Oct 28) pp. 109287. Electronic Publication Date: 28 Oct 2020	b	非GLP/準拠したガイドライン記載なし 投与容量の記載なし，調製時期の記載なし 動物(雄のみ), 数; 1群5匹, 無作為化方法記載なし 著者らも認めているように、用いた方法では、低用量におけるイミダクロプリドの毒性を調べることには制限がある。
9	M-766675-01-1	Lohiya, Archana; Kumar, Vinod; Punia, J.S.	2017	Imidacloprid induced oxidative stress and histopathological changes in liver of rats .	Indian Journal of Animal Research, (2017) Vol. 51, No. 3, pp. 531-536. Refs: 34 ISSN: 0367-6722	b	非GLP/準拠したガイドライン記載なし 不純物の情報なし，用量設定；対照群＋被験物質群2群 投与容量の記載なし，調製時期の記載なし 動物数1群6匹, 無作為化方法記載なし 背景データーが記載されていない。 病理組織学的所見について、頻度の情報がない。 GLP下90日間反復混餌試験(5.3.2/01)において、本文献に記載されているような病理所見は認められない。
10	M-769003-01-1	Lohiya, Archana; Kumar, Vinod; Punia, J. S. Lohiya, Archana; Punia, J. S.	2018	Sub - acute oxidant and histopathological effects of imidacloprid on kidney of adult female Wistar rats	INDIAN JOURNAL OF ANIMAL RESEARCH, (SEP 2018) Vol. 52, No. 9, pp. 1324-1330. ISSN: 0367-6722.	b	非GLP/準拠したガイドライン記載なし 不純物の情報なし，用量設定；対照群＋被験物質群2群 投与容量の記載なし，調製時期の記載なし 動物数1群6匹, 無作為化方法記載なし 背景データーが参照できない。 病理組織学的所見について、頻度の情報がない。 GLP下90日間反復混餌試験(5.3.2/01)において、本文献に記載されているような病理所見は認められない。

11	M-769060-01-1	Zheng, Meilin; Qin, Qizhong; Zhou, Wenli; Liu, Qin; Zeng, Shaohua; Xiao, Hong; Bai, Qunhua; Gao, Jieying	2020	Metabolic disturbance in hippocampus and liver of mice : A primary response to imidacloprid exposure	Scientific Reports (2020), 10(1), 5713	b	非GLP/準拠したガイドラインの記載なし 不純物の情報なし。 一般観察、摂餌量、飲水量などの記載なし。 調製日の時期の情報が記載されていない。 GLP下でOECD451に準拠して実施しているマウス発がん性試験(5.5.3/01)において、最高用量群で認められた体重増加抑制からNOAELは103.6mg/kg体重/日であり、本文献の投与容量よりかなり高い用量でNOAELが設定されている。脳及び肝にイミダクロプリドに起因した病理組織学的所見が認められていない。またラットではあるが、GLP下で実施された反復経口投与神経毒性試験(5.7.4/01)においても脳に病理組織学的所見は認められていない。
12	M-767290-01-1	Nwozo, Sarah [Reprint Author]; Akpodono, Enor; Oyinloye, Babatunji	2015	Plasma, erythrocyte membrane bound enzymes and tissue histopathology in male Wistar rats exposed to common insecticides.	Journal of Pesticide Science, (2015) Vol. 40, No. 1, pp. 13-18. ISSN: 1348-589X. E-ISSN: 1349-0923.	b	非GLP/準拠した試験ガイドライン記載なし 被験物質の純度の情報なし。 1用量の設定（用量に関連した影響か評価できない。） 病理組織学的検査を実施しているが、頻度及び程度の情報の記載がない。
13	M-769042-01-1	Muzinic, Vedran; Ramic, Snjezana; Zeljezic, Davor	2018	Chromosome Missegregation and Aneuploidy Induction in Human Peripheral Blood Lymphocytes In vitro by Low Concentrations of Chlorpyrifos, Imidacloprid and -Cypermethrin	Environmental and Molecular Mutagenesis (2018) Ahead of Print	b	非GLP 代謝活性化の条件で検査されていない。 陽性対照が設定されていない。 ヒト末梢血ドナーの性別の記載がない。若年齢とあるが年齢の記載がない。 尚、GLP下で実施されたIn vivo小核試験及び他のin vivo試験において陰性であることが確認されている。
14	M-769052-01-1	Lohiya, Archana; Kumar, Vinod; Punia, J. S. Lohiya, Archana; Punia, J. S.	2019	Effect of imidacloprid on antioxidant status and histopathological changes in ovary and uterus of adult female Wistar rats	INDIAN JOURNAL OF ANIMAL RESEARCH, (AUG 2019) Vol. 53, No. 8, pp. 1014-1019. ISSN: 0367-6722.	b	非GLP/準拠したガイドライン記載なし 不純物の情報なし，用量設定；対照群＋被験物質群2群 投与容量の記載なし，調製時期の記載なし 動物数1群6匹, 無作為化方法記載なし 背景データーが記載されていない。 病理組織学的所見について、頻度の情報がない。 GLP下90日間反復混餌試験(5.3.2/01)において、本文献に記載されているような病理所見は認められない。
15	M-766064-01-1	Ibrahim, Khairy A.; El-Desouky, Mohamed A.; Abou-Yousef, Hala M.; Gabrowny, Khaled H.; El-Sayed, Amr S. M.	2015	Imidacloprid and/or esfenvalerate induce apoptosis and disrupt thyroid hormones in neonatal rats	Global Journal of Biotechnology and Biochemistry (2015), 10(3), 106-112	b	非GLP/準拠したガイドライン記載なし 不純物の情報なし, 調製溶媒が不明瞭，調製日時が不明，投与開始日齢が不明瞭，陽性対照群が設定されていない。 試験動物の体重、一般状態の情報の欠落, 甲状腺ホルモンしか測定していな，また。病理組織学的検査が実施されていないなど情報の欠落がある。 試験項目がガイドラインで推奨されている試験ではない。陽性対照物質が設定されていない。

16	M-769055-01-1	Yuan, Xianling; Shen, Jiayan; Zhang, Xinyue; Tu, Wenqing; Fu, Zhengwei; Jin, Yuanxiang	2019	Imidacloprid disrupts the endocrine system by interacting with androgen receptor in male mice	Science of the Total Environment (2019) Ahead of Print	b	非GLP/準拠したガイドラインの記載なし 不純物の情報なし。一日当たり及び体重当たりの平均被験物質摂取量の記載なし。 馴化期間の記載なし。一般観察、摂餌量、飲水量などの記載なし。 飲水投与であるが、水への溶解性の検討，濃度分析の実施の有無あるいは日時，分析方法の情報が記載されていない。 GLP下でOECD416に準じて実施した2世代繁殖毒性試験(5.6.1/01)において、ラットではあるが、本文献で認められたような精巣重量の低下や、精巣上体の組織学的検査において、精子の減少はP世代、F1世代ともに最高用量である700ppm(P;56.5mg/kg体重/日, F1；59.08mg/kg体重/日)まで投与による影響は認められず、その他のGLP下で実施した試験成績からも、イミダクロプリドが内分泌系に影響を及ぼす証拠は認められていない。
17	M-768189-01-1	Nakayama, Akira; Yoshida, Manami; Kagawa, Nao; Nagao, Tetsuji	2019	The neonicotinoids acetamiprid and imidacloprid impair neurogenesis and alter the microglial profile in the hippocampal dentate gyrus of mouse neonates	Journal of Applied Toxicology (2019) Ahead of Print	b	非GLP/準拠したガイドライン記載なし マウス生後12日~26日投与, 新生児の飼育環境の記載なし 総数8例（雌雄の割合の記載なし） 被験物質投与群；一用量　用量に依存した変化か確認できない。 投与容量の記載なし，調製時期の記載なし 新生児への経口投与方法は標準化されていないものと考える。
18	M-766318-01-1	Gatne, M. M.; Ramesh; Bhoir, P. S.; Deore, M. D.	2006	Immunotoxicity studies of imidacloprid in rats.	Toxicol. Int., Volume 13, Issue 2, Page 89-92, Publication Year 2006	b	別添5参照
19	M-767378-01-1	Pandit, Arif Ahmad; Mukhopadhyay, Chandra S.; Ramneek; Sethi, Ram S.	2017	Expression of TLR-9 and IL-1 beta following Concomitant Exposure to Imidacloprid and Endotoxin.	Pesticide Research Journal, (DEC 2017) Vol. 29, No. 2, pp. 243-250. ISSN: 0970-6763.	b	非GLP/準拠したガイドライン記載なし 本文献はイミダクロプリド単独(30日間反復強制経口投与)またはリポ多糖(鼻腔内投与)との組み合わせによる肺への影響をみることにより、イミダクロプリドの免疫調節機能を検索したものである。 イミダクロプリド6.55mg/kg体重/日を雄マウスに30日間反復強制経口投与したところ、TLR-9及びIL-1 betaの肺におけるM-RNA及び蛋白レベルに変化は認められなかったが、血清中ではTLR-9レベルの増加とIL-1beta蛋白レベルの減少が認められており、免疫調節作用が示唆されたと報告されている。しかし、1用量のため用量依存性についても確認ができないことから、この文献のみでこの結論に至るのは早計であると考える。

20	M-768999-01-1	Caron-Beaudoin, Elyse; Viau, Rachel; Sanderson, J. Thomas	2018	Effects of neonicotinoid pesticides on promoter-specific aromatase (CYP19) expression in Hs578t breast cancer cells and the role of the VEGF pathway.	Environmental Health Perspectives, (April 2018) Vol. 126, No. 4. arn. 047014. Refs: 69 ISSN: 0091-6765; E-ISSN: 1552-9924	b	非GLP/準拠したガイドライン記載なし 最終的な結論が示されていない。
21	M-766177-01-1	Bizerra, Paulo F. V.; Guimaraes, Anilda R. J. S.; Miranda, Camila A.; Constantin, Rodrigo P.; Utsunomiya, Karina S.; Gilglioni, Eduardo H.; Constantin, Jorgete; Ishii-Iwamoto, Emy L.; Maioli, Marcos A.; Mingatto, Fabio E.	2020	Enhanced cytotoxicity of imidacloprid by biotransformation in isolated hepatocytes and perfused rat liver	Pesticide Biochemistry and Physiology (2020) Ahead of Print	b	非GLP/準拠した試験テストガイドライン記載なし。 イミダクロプリドの肝に対する影響の作用機作を想定した試験であり、設定された用量の単位は参照値の単位と比較できない。
22	M-768956-01-1	Zhang Chao; Schiliro Tiziana; Gea Marta; Bianchi Silvia; Spinello Angelo; Magistrato Alessandra; Gilardi Gianfranco; Di Nardo Giovanna	2020	Molecular Basis for Endocrine Disruption by Pesticides Targeting Aromatase and Estrogen Receptor.	International journal of environmental research and public health, (2020 Aug 05) Vol. 17, No. 16. Electronic Publication Date: 5 Aug 2020	b	Estrone direct competitive ELISA kit MELN細胞によるレポーターアッセイ コンピュータシュミレーション 非GLP/準拠したガイドライン記載なし MELN細胞によるレポーターアッセイにより、エストロゲン作用が認められたと報告されている。 尚、GLP下でOECD ガイドラインに準拠した 短期、長期毒性試験及び繁殖性試験、発生毒性試験において、イミダクロプリドによるエストロゲン作用の証拠は認められていない。
23	M-768951-01-1	Carmichael, Suzan L. (Correspondence); Yang, Wei; Roberts, Eric; Kegley, Susan E.; Brown, Timothy J.; English, Paul B.; Lammer, Edward J.; Shaw, Gary M.	2016	Residential agricultural pesticide exposures and risks of selected birth defects among offspring in the San Joaquin Valley of California.	Birth Defects Research Part A - Clinical and Molecular Teratology, (1 Jan 2016) Vol. 106, No. 1, pp. 27-35. Refs: 45 ISSN: 1542-0752; E-ISSN: 1542-0760 CODEN: BDRPBT	b	被験者の被ばく量は、GIS - 半径500mのジオコード化された地点（被験者の住まい）について割り当てられた被ばく量から算出しており、個人レベルでの推定曝露データを検証するために利用できる測定データに限りがある。したがって、暴露-反応評価の点で、定量的 で検証された個人レベルのデータが不足していると考えらる。
24	M-769007-01-1	Ling Chenxiao; Liew Zeyan; Von Ehrenstein Ondine S; Heck Julia E; Park Andrew S; Cui Xin; Cockburn Myles; Wu Jun; Ritz Beate	2018	Prenatal Exposure to Ambient Pesticides and Preterm Birth and Term Low Birthweight in Agricultural Regions of California.	Toxics, (2018 Jul 21) Vol. 6, No. 3. Electronic Publication Date: 21 Jul 2018	b	被験者の被ばく量は、半径2kmのジオコード化された地点（生まれた場所）について割り当てられた被ばく量から算出しており、個人レベルでの推定暴露データを検証するために利用できる測定データに限りがある。したがって、暴露-反応評価の点で、定量的 で検証された個人レベルのデータが不足していると考えらる
25	M-769049-01-1	Von Ehrenstein, Ondine S.; Ling, Chenxiao; Cui, Xin; Cockburn, Myles; Park, Andrew S.; Yu, Fei; Wu, Jun; Ritz, Beate	2019	Prenatal and infant exposure to ambient pesticides and autism spectrum disorder in children: Population based case-control study.	BMJ (Online), (2019) Vol. 364. arn. l962. Refs: 80 ISSN: 0959-8146; E-ISSN: 1756-1833 CODEN: BMJOAE	b	被験者について個々のレベルでの暴露量評価はなされていない。
26	M-769039-01-1	Beranger, Remi; Hardy, Emilie M.; Binter, Anne-Claire; Charles, Marie-Aline; Zaros, Cecile; Appenzeller, Brice M. R.; Chevrier, Cecile	2020	Multiple pesticides in mothers hair samples and childrens measurements at birth: Results from the French national birth cohort (ELFE)	International Journal of Hygiene and Environmental Health (2020), 223(1), 22-33	b	ヒト集団における直接的なサンプリングによる横断研究である。しかし、サンプル数が少なく、評価された生物学的エンドポイントとして疑問が残る。

27	M-767090-01-1	Prasanna, M. Naga; Vardhani, V. Viveka	2013	Effect of imidacloprid on the biochemical contents of kidneys in male Swiss albino mice	Bioscan (2013), 8(3, Suppl.), 1069-1074	c	非GLP/準拠している試験ガイドラインが記載されていない。 統計解析が可能な動物数が確保されていない（2例/各6時点/群での測定)。 被験物質の純度及び供給源なし
28	M-769059-01-1	Shao, Bo; Wang, Meixia; Chen, Anran; Zhang, Chunzhi; Lin, Li; Zhang, Zhaoqiang; Chen, Anlan	2020	Protective effect of caffeic acid phenethyl ester against imidacloprid -induced hepatotoxicity by attenuating oxidative stress, endoplasmic reticulum stress, inflammation and apoptosis	Pesticide Biochemistry and Physiology (2020) Ahead of Print	c	非GLP/準拠したガイドラインの記載なし 不純物の情報なし 片性(雄)のみの実施　飼育環境条件の情報なし 投与液の調製時期が不明，投与容量不明 用量段階；イミダクロプリド単独は一用量(5mg/kg体重/日)，設定理由が記載されていない。用量に関連した変化であるかの検討は不可能 屠殺方法記載なし イミダクロプリド由来の肝毒性を酸化的ストレス、小胞体ストレス、炎症、アポトーシスの観点からCaffein acid phenethyl ester （CAPA）が緩和する可能性を調べたものであり、イミダクロプリドの肝毒性に主眼をおいて述べられた報告書ではない。
29	M-767288-01-1	Ozsahin, Ayse Dilek; Bal, Ramazan; Yilmaz, Okkes	2014	Biochemical alterations in kidneys of infant and adult male rats due to exposure to the neonicotinoid insecticides imidacloprid and clothianidin	Toxicology Research (Cambridge, United Kingdom) (2014), 3(5), 324-330	c	非GLP/準拠した試験ガイドライン記載なし 雄ラット（7日齢，8-9週齢）を用いた90日間反復強制経口投与により、腎に対する影響として、腎臓組織中の脂肪酸、ビタミン、コレステロール量を調べているが、病理組織学的検査結果も実施されておらず、毒性影響とするべきかが不明瞭である。
30	M-769067-01-1	Saqer, Bahr Talal; Al-Aubadi, Inas Mudhafar; Ali, Abdulkarim Jawad	2019	STUDY ON THE EFFECT OF IMIDACLOPRID IN BLOOD, LIVER AND KIDNEY ON ADULT MALE ALBINO MICE .	Biochemical and Cellular Archives, (OCT 2019) Vol. 19, No. 2, pp. 3013-3024. ISSN: 0972-5075. E-ISSN: 0976-1772.	c	非GLP/準拠した試験ガイドライン記載なし 統計学的有意差結果が示されていない。動物の一般状態の情報がない。病理組織検査所見は形態像は記載されているが、頻度などの情報がない。濃度の単位がppmで表記されており、被験物質摂取量（mg/kg/day)が不明。
31	M-769058-01-1	Guo Jingyi; Shi Rong; Cao Yiyi; Luan Yang; Zhou Yijun; Gao Yu; Tian Ying	2018	Genotoxic effects of imidacloprid in human lymphoblastoid TK6 cells.	Drug and chemical toxicology, (2018 Aug 13) pp. 1-5. Electronic Publication Date: 13 Aug 2018	c	非GLP/準拠したガイドライン記載なし 代謝活性化条件下での試験は実施されていない。 陽性対照、陰性対照は同時に実施されているが、背景データーが報告されていない。 実施した用量の溶解性及細胞毒性についての記載がない。 他のGLPで実施され、OECD ガイドラインに準じた遺伝毒性試験成績から、イミダクロプリドの遺伝毒性は認められないものと考える。

32	M-766176-01-1	Shi, Linbo; Xu, Huaping; Min, Fangfang; Li, Xin; Shi, Xiaoyun; Gao, Jinyan; Chen, Hongbing	2020	Imidacloprid exposure suppresses cytokine production and neutrophil infiltration in TLR2-dependent activation of RBL-2H3 cells and skin inflammation of BALB/c mice	New Journal of Chemistry (2020) Ahead of Print	c	非GLP/準拠したガイドライン記載なし 不純物の情報なし 皮内注射による受動的皮膚アナフィラキシー及び皮膚炎症誘発試験に使用した雌マウスの飼育環境条件が不明，試験方法が不明瞭 背景データーが報告されていないため、判断ができない。
33	M-768175-01-1	Shi, Linbo; Xu, Huaping; Wu, Yujie; Li, Xin; Zou, Li; Gao, Jinyan; Chen, Hongbing	2017	Alpha7-nicotinic acetylcholine receptors involve the imidacloprid -induced inhibition of IgE-mediated rat and human mast cell activation	RSC Advances (2017) Ahead of Print	c	非GLP/準拠しているガイドラインが記載されていない。 添加に用いた媒体が確認できない。 血漿をサンプリングした非アレルギー者の情報が記載されていない。
34	M-760066-01-1	Mesnage, Robin; Biserni, Martina; Genkova, Dilyana; Wesolowski, Ludovic; Antoniou, Michael N.	2018	Evaluation of neonicotinoid insecticides for oestrogenic, thyroidogenic and adipogenic activity reveals imidacloprid causes lipid accumulation	Journal of Applied Toxicology (2018) Ahead of Print	c	ToxCast high-thoughput screening assayの結果であり、この結果のみをリスク評価に利用することができない。
35	M-769038-01-1	Wambaugh, John F.; Hughes, Michael F.; Ring, Caroline L.; Macmillan, Denise K.; Ford, Jermaine; Fennell, Timothy R.; Black, Sherry R.; Snyder, Rodney W.; Sipes, Nisha S.; Wetmore, Barbara A.; Westerhout, Joost; Setzer, R. Woodrow; Pearce, Robert G.; Simmo	2018	Evaluating in vitro-in vivo extrapolation of toxicokinetics	Toxicological Sciences (2018), 163(1), 152-169	c	雄SDラットにイミダクロプリドを含む化学物質を経口または静脈内投与し、薬物動態データ(TKデータ)を新たに取得し、既取得のTKデータと系統的解析を行う。 非GLP/準拠したガイドライン記載なし 被験物質に関する情報不足(購入先、純度) 対照群の設定なし、供試動物数が不明、投与量の設定が不適切(poとivで投与量が異なる)、供試動物が雄のみ(メスは使用していない)
36	M-769063-01-1	Khidkhan Kraisiri; Ikenaka Yoshinori; Ichise Takahiro; Nakayama Shouta M M; Mizukawa Hazuki; Nomiyama Kei; Iwata Hisato; Arizono Koji; Takahashi Keisuke; Kato Keisuke; Ishizuka Mayumi	2020	Interspecies differences in cytochrome P450-mediated metabolism of neonicotinoids among cats, dogs , rats , and humans.	Comparative biochemistry and physiology. Toxicology and pharmacology : CBP, (2020 Oct 03) Vol. 239, pp. 108898. Electronic Publication Date: 3 Oct 2020	c	ネオニコチノイド系農薬（イミダクロプリド、クロチアニジン、アセタミプリド）に対するCYP活性（シトクロムP450）の種差（ネコ、イヌ、ヒト、ラット）を調査。 ・非GLP、準拠したテストガイドラインなし。 ・投与した被験物質の純度が明記されていない。 ・ヒト以外の動物種について、片性。 試験種各々のCYPの誘導により生成した代謝物を、被験物質・試験種毎に同定しているのみであり、リスク評価パラメータを設定する際の補足データとなるような情報は含まれていない。
37	M-769064-01-1	Zhang Nan; Wang Bata; Zhang Zhanpeng; Chen Xufeng; Huang Yue; Liu Qihui; Zhang Hua	2020	Occurrence of neonicotinoid insecticides and their metabolites in tooth samples collected from south China: Associations with periodontitis.	Chemosphere, (2020 Oct 01) Vol. 264, No. Pt 1, pp. 128498. Electronic Publication Date: 1 Oct 2020	c	交絡因子が性別及び年齢のみで少なく、適しているか疑念の残る歯の残留物という生体試料を用いており、検証されたアセスメントとはみなされない。

a: 下線を付した文献は、リスク評価機関の指摘により申請者が適合性判断を見直した結果、2023年12月の改訂時に本表に追加したもの。

別添 3-2

適合性評価の第 2 段階で「区分 a」「区分 b」「区分 c」へ分類された論文リストとその理由：生活環境動植物及び家畜に対する毒性

No.	文献ファイル名	著者	出版年	論文表題	掲載誌名、号、ページ等	適合性	判断理由
1	M-652046-01-1	Rawi Sayed M; Al-Logmani Ayed S; Hamza Reham Z	2019	Neurological alterations induced by formulated imidacloprid toxicity in Japanese quails .	Metabolic brain disease, (2019 Jan 03) . Electronic Publication Date: 3 Jan 2019	a	信頼性あり(制限なし) 妥当な試験方法により日本ウズラに対する急性経口毒性を調べている。
2	M-758299-01-1	Raby Melanie; Maloney Erin; Poirier David G; Sibley Paul K	2019	ACUTE EFFECTS OF BINARY MIXTURES OF IMIDACLOPRID AND TEBUCONAZOLE ON 4 FRESHWATER INVERTEBRATES.	Environmental toxicology and chemistry, (2019 Feb 06) . Electronic Publication Date: 6 Feb 2019	a	信頼性あり(制限なし) ユスリカ、ヨコエビを含む水生昆虫に対する影響を、テブコナゾールとの混合のみでなく、イミダクロプリド単独でも試験している。 ユスリカは3齢幼虫を使用しているため参考データ。
3	M-809307-01-1	Ram, Budhi; Sharma, Harish Kumar; Dubey, J. K.; Sharma, K. C.; Patiyal, S. K.	2017	Evaluation of acute contact toxicity of imidacloprid to Apis mellifera under laboratory conditions	Journal of Pharmacognosy and Phytochemistry (2017), 6(Spec.Iss.1), 984-986	a	信頼性あり(制限あり) 投与溶液に用いた溶媒は不明だが、LD50が得られており、頭数も適切。
4	M-809256-01-1	Bommuraj, Vijayakumar; Chen, Yaira; Birenboim, Matan; Barel, Shimon; Shimshoni, Jakob A.	2020	Concentration-and time-dependent toxicity of commonly encountered pesticides and pesticide mixtures to honeybees (Apis mellifera L.)	Chemosphere (2020) Ahead of Print	a	信頼性あり(制限なし) 妥当な試験方法によりミツバチの単回及び反復毒性試験を実施している。
5	M-807712-01-1	Dai Pingli; Jack Cameron J; Mortensen Ashley N; Bustamante Tomas A; Bloomquist Jeffrey R; Ellis James D	2018	Chronic toxicity of clothianidin, imidacloprid , chlorpyrifos, and dimethoate to Apis mellifera L. larvae reared in vitro.	Pest management science, (2018 Jun 21) . Electronic Publication Date: 21 Jun 2018	a	信頼性あり(制限あり) 4濃度で試験したものの、用量が低く、死亡反応が得られていない。
6	M-808462-01-1	Kaur, Satinder; Nath, Ravinder; Deep, Gagan; Singh, Harpreet	2020	Impact of type and extent of sugars on the oral toxicity of imidacloprid on honeybees , Apis mellifera (Linn.).	Journal of Entomological Research, (DEC 2020) Vol. 44, No. 4, pp. 595-599.	b	ミツバチに対する投与媒体の違い(糖の種類及び濃度)がイミダクロプリドの毒性値に及ぼす影響を調べている。 ガイドラインと異なるスクロース濃度で投与された試験の検証に利用可能である。
7	M-547650-01-1	Hallmann, Caspar A.; Foppen, Ruud P. B.; Van Turnhout, Chris A. M.; De Kroon, Hans; Jongejans, Eelke	2014	Declines in insectivorous birds are associated with high neonicotinoid concentrations	Nature (London, United Kingdom) (2014), 511(7509), 341-343	c	鳥類群集モニタリングであり、リスク評価に直接用いられるエンドポイントは得られていないため参考データ。
8	M-627458-01-1	Raby, Melanie; Zhao, Xiaoming; Hao, Chunyan; Poirier, David G.; Sibley, Paul K.	2018	Chronic effects of an environmentally-relevant, short-term neonicotinoid insecticide pulse on four aquatic invertebrates	Science of the Total Environment (2018), 639, 1543-1552	c	暴露時間が24時間と短い。ユスリカの試験では3齢を使用している。
9	M-684114-01-1	Maloney, Erin M.; Sykes, Hunter; Morrissey, Christy; Peru, Kerry M.; Headley, John V.; Liber, Karsten	2020	Comparing the Acute Toxicity of Imidacloprid with Alternative Systemic Insecticides in the Aquatic Insect Chironomus dilutus	Environmental Toxicology and Chemistry (2020) Ahead of Print	c	ユスリカの急性毒性試験であるが、6-7日齢を使用している。
10	M-479141-01-1	Motobayashi, Takashi; Genka, Masaaki; Thai Khanh Phong; Watanabe, Hirozumi	2012	Effects of Formulation and Treatment Method of Imidacloprid in Nursery Boxes on Aquatic Insects Inhabiting Rice Paddy Fields.	Japanese Journal of Applied Entomology and Zoology, (2012) Vol. 56, No. 4, pp. 169-172.	c	登録されている適用内容に従って水稲箱処理後の水田における田面水中の濃度推移とユスリカ幼虫等に対する影響を調査している。試験方法はテストガイドラインと異なるため、参考データ。
11	M-810903-01-1	Wei, Fenghua; Wang, Dali; Li, Huizhen; You, Jing	2021	Joint toxicity of imidacloprid and azoxystrobin to Chironomus dilutus at organism, cell, and gene levels	Aquatic Toxicology (2021), 233, 105783	c	死亡をエンドポイントとしており遊泳阻害を見ていないこと、暴露時間が96時間であること、土壌を含む試験系であることから、ユスリカの急性遊泳阻害を評価する上では区分cと判断した。

12	M-546625-01-1	Lanteigne, Michelle; Whiting, Sara A.; Lydy, Michael J.	2014	Mixture Toxicity of Imidacloprid and Cyfluthrin to Two Non-target Species, the Fathead Minnow Pimephales promelas and the Amphipod Hyalella azteca; Mixture Toxicity of Imidacloprid and Cyfluthrin to Two Non - target Species, the Fathead Minnow Pimephales promelas and the Amphipod Hyalella azteca	Archives of Environmental Contamination and Toxicology (2015), 68(2), 354-361; Archives of Environmental Contamination and Toxicology (2014) Ahead of Print	c	ファットヘッドミノーとヨコエビの急性毒性試験を実施している。試験法はOECD及びUSEPAに従ったとあるが、試験法及び結果の詳細について十分に示されていない。
13	M-455945-01-1	Beketov, Mikhail A.; Liess, Matthias.	2008	Potential of 11 Pesticides to Initiate Downstream Drift of Stream Macroinvertebrates.	Arch. Environ. Contam. Toxicol., Volume 55, Issue 2, Page 247-253, Publication Year 2008	c	甲殻類に対する急性毒性を試験しているが水中濃度が測定されておらず、実際の暴露濃度が不明である。
14	M-479112-01-1	Nyman, Anna-Maija; Hintermeister, Anita; Schirmer, Kristin; Ashauer, Roman.	2013	The insecticide imidacloprid causes mortality of the freshwater amphipod Gammarus pulex by interfering with feeding behavior.	PLoS One, Volume 8, Issue 5, Page e62472, Publication Year 2013	c	摂餌条件下でのヨコエビへの影響。試験濃度区が少ない。暴露期間が長い。
15	M-807713-01-1	Knysh, Kyle M.; Courtenay, Simon C.; Grove, Carissa M.; Van Den Heuvel, Michael R.	2021	The Differential Effects of Salinity Level on Chlorpyrifos and Imidacloprid Toxicity to an Estuarine Amphipod	Bulletin of Environmental Contamination and Toxicology (2021) Ahead of Print	c	ヨコエビを用いて毒性を調べているが、ガイドラインで推奨されている種ではない。
16	M-812938-01-1	Holder, Philippa J.; Jones, Ainsley; Tyler, Charles R.; Cresswell, James E.	2018	Fipronil pesticide as a suspect in historical mass mortalities of honey bees	Proceedings of the National Academy of Sciences of the United States of America (2018), 115(51), 13033-13038	c	ミツバチに対する経口毒性を調べているが、摂餌量が正確に測定されているか不明であり、また結果についてもリスク評価に用いられるエンドポイントが明確には示されていないため参考データ。
17	M-808339-01-1	Wood, Sarah C.; Kozii, Ivanna V.; Koziy, Roman V.; Epp, Tasha; Simko, Elemir	2018	Comparative chronic toxicity of three neonicotinoids on New Zealand packaged honey bees .	PLoS ONE, (January 2018) Vol. 13, No. 1. arn. e0190517. Refs: 58 E-ISSN: 1932-6203 CODEN: POLNCL	c	ミツバチの慢性影響を調査しているが、リスク評価に用いる定量的エンドポイントは得られていないため参考データ。
18	M-771258-01-1	Zaworra, Marion; Koehler, Harald; Schneider, Josef; Lagojda, Andreas; Nauen, Ralf	2018	Pharmacokinetics of three neonicotinoid insecticides upon contact exposure in the western honey bee , Apis mellifera	Chemical Research in Toxicology (2018) Ahead of Print	c	ミツバチにおける体内動態であり、リスク評価に用いられるエンドポイントは得られていないため参考データ。
19	M-807734-01-1	Ma, Shilong; Yang, Yang; Fu, Zhongmin; Diao, Qingyun; Wang, Mengyue; Luo, Qihua; Wang, Xing; Dai, Pingli	2021	A combination of Tropilaelaps mercedesae and imidacloprid negatively affects survival , pollen consumption and midgut bacterial composition of honey bee	Chemosphere (2021), 268, 129368	c	寄生ダニとイミダクロプリドの相互作用を調べており、イミダクロプリド単独区もあるが、投与量は花粉残留濃度を基にしており、死亡反応が十分に見られない濃度設定である。
20	M-809312-01-1	Cowles, Richard S.; Eitzer, Brian D.	2017	Residues of neonicotinoid insecticides in pollen and nectar from model plants	Journal of Environmental Horticulture (2017), 35(1), 24-34	c	日本の代表的な使用方法／使用条件とは異なるが、灌注及び散布処理後の花粉及び花蜜における残留の参考となる。
21	M-810809-01-1	Jiang, Jiangong; Ma, Dicheng; Zou, Nan; Yu, Xin; Zhang, Zhengqun; Liu, Feng; Mu, Wei	2018	Concentrations of imidacloprid and thiamethoxam in pollen, nectar and leaves from seed-dressed cotton crops and their potential risk to honeybees (Apis mellifera L.)	Chemosphere (2018), 201, 159-167	c	日本の代表的な使用方法／使用条件とは異なるが、種子処理後の花粉及び花蜜における残留の参考となる。
22	M-810869-01-1	Heller, Sarah; Joshi, Neelendra K; Chen, Jing; Rajotte, Edwin G; Mullin, Chris; Biddinger, David J	2020	Pollinator exposure to systemic insecticides and fungicides applied in the previous fall and pre-bloom period in apple orchards	Environmental pollution (2020) ISSN: 0269-7491 Published by: Elsevier Ltd Source Note: 2020 Apr. 10,	c	日本の処理量・方法とは異なるため参考データ。

23	M-585157-01-1	Silvina, Niell; Florencia, Jesus; Nicolas, Perez; Cecilia, Perez; Lucia, Pareja; Abbate, Silvana; Leonidas, Carrasco-Letelier; Sebastian, Diaz; Yamandu, Mendoza; Veronica, Cesio; Horacio, Heinzen	2017	Neonicotinoids transference from the field to the hive by honey bees : Towards a pesticide residues biomonitor	Science of the Total Environment (2017), 581-582, 25-31	c	だいずに散布後のだいず葉、ミツバチ、巣中のハチミツ、花粉を分析。使用方法は日本における登録内容と異なるため、リスク評価に直接的には利用できない。

別添 3-3

適合性評価の第 2 段階で「区分 a」「区分 b」「区分 c」へ分類された論文リストとその理由：環境動態

No.	文献ファイル名	著者	出版年	論文表題	掲載誌名、号、ページ等	適合性	判断理由
1	M-548255-01-1	Jeong, Chang Yoon; Selim, H. M.	2010	Modeling adsorption-desorption kinetics of imidacloprid in soils.	Soil Sci., Volume 175, Issue 5, Page 214-222, Publication Year 2010	a	信頼性あり(制限あり) 土壌吸着を調べている。有機物含量は報告されているが有機炭素含量が報告されていないため、Kocが求められない。
2	M-812823-01-1	Jeong, Chang Yoon; Selim, H. Magdi	2011	Adsorption-Desorption Kinetics of Imidacloprid in Soils: Influence of Phosphate	Soil Science (2011), 176(11), 582-588	a	信頼性あり(制限あり) リン添加による土壌吸着への影響を調べているが、リンを添加していない土壌での吸着性も試験している。ただし、物質収支について検討されておらず、試験濃度が3濃度のみ。
3	M-548358-01-1	Broznic, Dalibor; Milin, Cedomila	2012	Effects of temperature on sorption-desorption processes of imidacloprid in soils of Croatian coastal regions	Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes (2012), 47(8), 779-794	a	信頼性あり(制限なし) OECD 106に沿った試験。
4	M-548262-01-1	Broznic, Dalibor; Marinic, Jelena; Tota, Marin; Juresic, Gordana Canadi; Petkovic, Orjen; Milin, Cedomila	2012	Hysteretic Behavior of Imidacloprid Sorption-Desorption in Soils of Croatian Coastal Regions	Soil and Sediment Contamination (2012), 21(7), 850-871	a	信頼性あり(制限なし) OECD試験法に従った土壌吸着試験であるが、土壌存在下での物質収支を確認していない。しかし、土壌非存在下での安定性を確認しており、また滅菌条件で試験しているため、物質収支は問題ないと考えられる。
5	M-548371-01-1	Broznic, Dalibor; Marinic, Jelena; Tota, Marin; Juresic, Gordana Canadi; Milin, Cedomila	2012	Soil sorption characteristics of imidacloprid in different Croatian regions	International Journal of Environmental Engineering. Vol. 4, no. 3-4, pp. 324-336. 2012. ISSN: 1756-8463 E-ISSN: 1756-8471 DOI: 10.1504/IJEE.2012.050802 Published by: Inderscience Publishers Ltd., PO Box 735 Olney Bucks MK46 5WB United Kingdom	a	信頼性あり(制限あり) 土壌吸着試験をOECD試験法に従い実施している。物質収支の確認等、逸脱が認められるものの、概ねOECD試験法に従っている。
6	M-548414-01-1	Jin, Xiangxiang; Ren, Jingbei; Wang, Baichuan; Lu, Qiang; Yu, Yunlong	2013	Impact of coexistence of carbendazim, atrazine, and imidacloprid on their adsorption, desorption, and mobility in soil	Environmental Science and Pollution Research (2013), 20(9), 6282-6289	a	信頼性あり(制限あり) 土壌吸着を調べているが、吸着平衡到達及び物質収支について検討されていない。
7	M-809286-01-1	Motoki, Yutaka; Iwafune, Takashi; Seike, Nobuyasu; Otani, Takashi; Asano, Maki	2014	Effects of organic carbon quality on the sorption behavior of pesticides in Japanese soils	Journal of Pesticide Science (Tokyo, Japan) (2014), 39(2), 105-114	a	信頼性あり(制限あり) 各種農薬について有機炭素と土壌吸着との関係を調べているが、平衡時間を一律24時間としており、吸着平衡に達しているか不明。
8	M-548420-01-1	Kandil, Mahrous M.; El-Aswad, Ahmed F.; Koskinen, William C.	2015	Sorption-desorption of imidacloprid onto a lacustrine Egyptian soil and its clay and humic acid fractions	Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes (2015), 50(7), 473-483	a	信頼性あり(制限あり) 土壌吸着を調べている。試験期間中の分解は最小限と仮定して物質収支の確認を行っていない等、OECD試験法に完全には準拠していないが、試験方法及び報告内容から受け入れ可能と考える。
9	M-627460-01-1	Dankyi, Enock; Gordon, Chris; Carboo, Derick; Apalangya, Vitus A.; Fomsgaard, Inge S.	2018	Sorption and degradation of neonicotinoid insecticides in tropical soils	Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes (2018) Ahead of Print	a	信頼性あり(制限あり) OECD試験法に沿った土壌吸着試験である。物質収支の確認を行っていない等、同試験法に完全には準拠していないが、試験方法及び報告内容から受け入れ可能と考える。

10	M-809304-01-1	Zhang, Peng; Ren, Chao; Sun, Hongwen; Min, Lujuan	2018	Sorption, desorption and degradation of neonicotinoids in four agricultural soils and their effects on soil microorganisms	Science of the Total Environment (2018), 615, 59-69	a	信頼性あり(制限あり) 土壌吸着を調べているが、水中濃度の分析のみであり、物質収支が得られたのか不明。平衡化時間、土壌水比、試験濃度等の検討に関するデータがない。
11	M-811690-01-1	Zhang, Peng; Min, Lujuan; Tang, Jingchun; Rafiq, Muhammad Khalid; Sun, Hongwen	2020	Sorption and degradation of imidacloprid and clothianidin in Chinese paddy soil and red soil amended with biochars.	Biochar, (SEP 2020) Vol. 2, No. 3, pp. 329-341	a	信頼性あり(制限あり) バイオ炭添加による土壌吸着への影響を調べているが、バイオ炭を添加していない土壌での吸着性も試験している。ただし、吸着平衡到達及び物質収支について検討されていない。
12	M-809308-01-1	C Alister Http://Orcidorg/0000-0002-2965-1558; Araya, M; Cordova, A; Saavedra, J; Kogan, M	2020	Humic Substances and their Relation to Pesticide Sorption in Eight Volcanic Soils	Planta Daninha, Vol. 38, 20200101 ISSN: 0100-8358 E-ISSN: 1806-9681 DOI: 10.1590/s0100-83582020380100021 Published by: Sociedade Brasileira da Ciencia das Plantas Daninhas, UFV - Depto de Fitotecnia, Jaboticabal	a	信頼性あり(制限あり) 土壌吸着を調べているが、試験温度が20℃である。水中濃度の分析のみであるが、物質収支が得られたのか不明。
13	M-548435-01-1	Sharma, Smriti; Singh, Balwinder	2014	Metabolism and persistence of imidacloprid in different types of soils under laboratory conditions	International Journal of Environmental Analytical Chemistry (2014) Ahead of Print	b	イミダクロプリドの好気土壌における動態把握に利用できる。
14	M-477693-01-1	Ding, Tao; Jacobs, David; Lavine, Barry K. (Reprint)	2011	Liquid chromatography-mass spectrometry identification of imidacloprid photolysis products	MICROCHEMICAL JOURNAL, (NOV 2011) Vol. 99, No. 2, pp. 535-541. ISSN: 0026-265X.	b	イミダクロプリドの水中における光分解による動態把握に利用できる。
15	8705700	Mahapatra, Bibhab; Adak, Totan; Patil, Naveen K. B.; Pandi, G. Guru P.; Gowda, G. Basana; Yadav, Manoj Kumar; Mohapatra, S. D.; Rath, P. C.; Munda, Sushmita; Jena, Mayabini	2017	Effect of Abiotic Factors on Degradation of Imidacloprid	Bulletin of Environmental Contamination and Toxicology (2017), 99(4), 475-480	c	環境中分解に対する非生物学的な要因を調べている。
16	M-809311-01-1	Watanabe, Eiki; Seike, Nobuyasu	2021	Liquid Chromatographic Determination of Trace Bioavailable Neonicotinoids in Soil with Dispersive Liquid-Liquid Microextraction and Its Application for Experimental Monitoring	Journal of Agricultural and Food Chemistry (2021), 69(14), 4284-4293	c	テストガイドラインに準拠した試験法ではないのでリスク評価には利用できないが、土壌中残留の評価における参考データとなる可能性がある。
17	M-548343-01-1	Dalkmann, Philipp; Menke, Ulrich; Schaefer, Dieter; Keppler, Juergen; Paetzold, Stefan.	2012	Aging of methabenzthiazuron, imidacloprid, and N,N-dimethylsulfamide in silty soils and effects on sorption and dissipation.	Environ. Toxicol. Chem., Volume 31, Issue 3, Page 556-565, Publication Year 2012	c	土壌における経時的な吸着性を確認できるものの、リスク評価に利用可能なエンドポイントは得られていないため参考データ。
18	M-809258-01-1	Aliste, Marina; Perez-Lucas, Gabriel; Garrido, Isabel; Fenoll, Jose; Navarro, Simon	2021	Mobility of insecticide residues and main intermediates in a clay-loam soil, and impact of leachate components on their photocatalytic degradation	Chemosphere (2021), 274, 129965	c	吸着試験を実施しているが、1濃度のみでの試験であることから、参考データ。
19	M-810867-01-1	Todey Stephen A; Fallon Ann M; Arnold William A	2018	NEONICOTINOID INSECTICIDE HYDROLYSIS AND PHOTOLYSIS: RATES AND RESIDUAL TOXICITY .	Environmental toxicology and chemistry, (2018 Aug 29) . Electronic Publication Date: 29 Aug 2018	c	加水分解及び水中光分解速度を求めている。直接リスク評価には使用できないため参考データ。
20	M-479115-01-1	Thuyet, Dang Quoc; Watanabe, Hirozumi; Ok, Junghun	2013	Effect of pH on the degradation of imidacloprid and fipronil in paddy water	Journal of Pesticide Science (Tokyo, Japan) (2013), 38(4), 223-227	c	水田水中における分解に対するpHの影響を調べている。直接リスク評価には使用できないため参考データ。

21	M-548136-01-1	Redlich, Dirk; Shahin, Nabil; Ekici, Perihan; Friess, Albrecht; Parlar, Harun	2007	Kinetical study of the photoinduced degradation of imidacloprid in aquatic media	Clean: Soil, Air, Water (2007), 35(5), 452-458	c	水中光分解を調べており、リスク評価パラメーターを設定する際の補足データとして利用が可能と想定される。
22	M-548403-01-1	Lu, Zhe; Challis, Jonathan K.; Wong, Charles S.	2015	Quantum Yields for Direct Photolysis of Neonicotinoid Insecticides in Water: Implications for Exposure to Nontarget Aquatic Organisms	Environmental Science and Technology Letters (2015), 2(7), 188-192	c	水中光分解の補足データとしての利用可能性がある。
23	M-549333-01-2	Naoi, Hiromu; Kamata, Motoyuki	2011	Evaluation for neonicotinoid pesticide in water environment and water purification process	Kogaku Sogo Kenkyushoho, Kanto Gakuin Daigaku (2011), 39, 11-17	c	神奈川県内のモニタリングと浄水処理効果を調べているが、リスク評価に用いられるエンドポイントは得られていないため参考データ。
24	M-812936-01-1	Sato, Manabu; Uemura, Hitoshi; Kosaka, Koji; Asami, Mari; Kamata, Motoyuki	2016	Survey of pesticide concentrations, including neonicotinoids, in the Sagami River, its tributaries and tap Water	Mizu Kankyo Gakkaishi (2016), 39A(12), 153-162	c	日本における河川水モニタリングであり、リスク評価パラメーターの設定には利用されないが、実際の河川中濃度はリスク評価における補足データとして利用可能。
25	M-800320-01-1	Ohtsuka, N.; Minomo, K.; Motegi, M.; Nojiri, K.; Horii, Y.; Takemine, S.	2016	Occurrence of chloronicotinyl insecticides in river waters in Saitama prefecture, Japan	Organohalogen Compounds (2016), 78, 1095-1098	c	国内の河川モニタリングの結果であり、PEC算定値の検証への利用可能性が考えられる。
26	M-809310-01-1	Oyama, Koji; Yabuki, Yoshinori; Banno, Arisa	2019	Investigation of seasonal changes and ecological risk assessments of neonicotinoid pesticides in rivers in Osaka, Japan	Mizu Kankyo Gakkaishi (2019), 42A(12), 277-284	c	日本における河川水モニタリングであり、リスク評価パラメーターの設定には利用されないが、実際の河川中濃度はリスク評価における補足データとして利用可能。
27	M-809475-01-1	Klarich Wong, Kathryn L.; Webb, Danielle T.; Nagorzanski, Matthew R.; Kolpin, Dana W.; Hladik, Michelle L.; Cwiertny, David M.; Lefevre, Gregory H.	2019	Chlorinated Byproducts of Neonicotinoids and Their Metabolites : An Unrecognized Human Exposure Potential?	Environmental Science and Technology Letters (2019), 6(2), 98-105	c	分解物の水道水塩素処理過程での塩素化分解物の生成であり、直接リスク評価には使用できないため参考データ。
28	M-810743-01-1	Boulange, Julien; Jaikaew, Piyanuch; Watanabe, Hirozumi; Thuyet, Dang Quoc	2016	Simulating the fate and transport of nursery-box-applied pesticide in rice paddy fields	Pest Management Science (1 Jun 2016) Volume 72, Number 6, pp. 1178-1186, 32 refs. CODEN: PMSCFC ISSN: 1526-498X E-ISSN: 1526-4998 DOI: 10.1002/ps.4096 Published by: John Wiley and Sons Ltd, Southern Gate, Chichester, West Sussex, PO19 8SQ (GB)	c	箱処理後の水田での消長モデリング。