

List of Publications (July 2026)

Peer-Reviewed Journals

1. Zannou AJ, **Romeis J**, Collatz J (2026) Combining alternative pest control methods against *Tuta absoluta*: A review of the evidence. *Entomologia Generalis*, in press
2. Gallego I, Meissle M, **Romeis J** (2026) Genome manipulation in microalgae: a systematic map on improved traits, strains, and their commercial applications. *Reviews in Aquaculture* 18, e70178. doi: 10.1111/raq.70178
3. Chen Y, **Romeis J**, Meissle M (2026) Do genetically engineered plants affect aquatic non-target invertebrates? - a critical review. *Environmental Advances*, doi: 10.1016/j.envadv.2026.100726
4. Connolly JB, Devos Y, Glandorf DCM, **Romeis J** (2026) “Target species complex” concept: Strengthening environmental risk assessment of engineered gene drives. *Proceedings of the National Academy of Sciences USA* 123, e2535353123. doi: 10.1073/pnas.2535353123
5. Xu B, Zhang G, Zhu N, **Romeis J**, Collatz J, Zhang G, Huang C, Zhang Y, Wan F (2026) Functional characterization of four antimicrobial defensins in the globally invasive pest *Tuta (Phthorimaea) absoluta* (Lepidoptera: Gelechiidae). *Biological Control* 212, 105944. doi: 10.2139/ssrn.5481749
6. Meissle M, Naranjo SE, **Romeis J** (2025) Meta-analysis on effects of Bt-maize on nontarget invertebrates – Data transportability across continents. *Plants, People, Planet* 8, 365-376. doi: 10.1002/ppp3.70081
7. De Neef E, Gordon ERL, Velásquez-Zapata V, Narva K, Mc Cahon P, Mézin L, Lester PJ, **Romeis J**, Fletcher S, Mitter N, Devisetty UK, Sridharan K (2026) A bioinformatic ecological risk assessment framework for externally applied dsRNA-based biopesticides. *Integrated Environmental Assessment and Management* 22, 116-131. doi: 10.1093/inteam/vjaf116
8. Horrocks K, **Romeis J**, Collatz J (2025) Environmental impacts of agricultural pest insects: five case studies reveal overlooked impact mechanisms and specify knowledge gaps. *NeoBiota* 104, 251-279. doi: 10.3897/neobiota.104.158217
9. Xu B, Huang C, Cheng S, **Romeis J**, Collatz J, Zhang G, Zhang Y, Zhang G, Wan F (2025) Screening of highly virulent *Beauveria bassiana* strains against *Tuta absoluta* larvae and evaluation of their endophytic colonization-mediated suppression in tomato plants. *Plants* 14, 2932. doi: 10.3390/plants14182932
10. Zannou AY, Arnó J, **Romeis J**, Collatz J (2025) Compatibility of host plant resistance with natural enemies for management of the tomato leaf miner *Phthorimaea absoluta*. *Biological Control* 205, 105772. doi: 10.1016/j.biocontrol.2025.105772
11. Gray A, Garcia-Alonso M, Hokanson K, Roberts A, **Romeis J**, Smith J (2025) Opinion: Advancing science in support of sustainable bio-innovation: 16th ISBR Symposium - in memory of Professor Alan Raybould. *Frontiers in Bioengineering and Biotechnology* 13, 1593891. doi: 10.3389/fbioe.2025.1593891
12. Hokanson K, Bartsch D, Garcia-Alonso M, Islam A, Roberts A, **Romeis J** (2025) Editorial: Advancing Science in Support of Sustainable Bio-innovation: 16th ISBR Symposium. *Frontiers in Bioengineering and Biotechnology* 13:1597232. doi: 10.3389/fbioe.2025.1597232
13. Gallego I, Ramasamy PK, Medic N, Pedersen JK, Vereecke E, Robbens J, **Romeis J** (2025) The microalgal sector in Europe: towards a sustainable bioeconomy. *New Biotechnology* 86, 1-13. doi: 10.1016/j.nbt.2025.01.002
14. Zannou AJ, **Romeis J**, Collatz J (2024) Response of the tomato leaf miner *Phthorimaea absoluta* to wild and domesticated tomato genotypes. *Pest Management Science* 81, 1345-1359. doi: 10.1002/ps.8534

15. Brunner S, Weichert H, Meissle M, **Romeis J**, Weber H (2024) Field trials reveal trade-offs between grain size and grain number in wheat ectopically expressing a barley sucrose transporter. *Field Crops Research* 316, 109506
16. Gilliéron F, **Romeis J**, Jana Collatz (2024) Cold tolerance of the mealybug parasitoid *Anagyrus vladimiri*. *BioControl* 69, 129-143. doi: 10.1007/s10526-024-10247-4
17. Gonthier J, Arnó J, **Romeis J**, Collatz J (2024) Insight into the host-specificity of a native and newly introduced parasitoid of *Tuta absoluta* and prospect for biological control. *Biological Control* 191, 105464. doi: 10.1016/j.biocontrol.2024.105464
18. Meissle M, Grabenweger G, **Romeis J** (2024) No interaction of fluctuating or constant temperature with virulence of entomopathogenic fungi in two noctuid species. *Journal of Pest Science* 97, 809-823. doi: 10.1007/s10340-023-01673-x
19. Purnhagen K, Ambrogio Y, Bartsch D, Eriksson D, Jorasch P, Kahrmann J, Kardung M, Molitorisová A, Monaco A, Nanda AK, **Romeis J**, Rostoks N, Unkel K, Schneider XT (2023) Options for regulating new genomic techniques for plants in the European Union. *Nature Plants* 9, 1958-1961. doi: 10.1038/s41477-023-01570-2
20. Duarte, LM, **Romeis J**, Collatz J (2023) Effect of simulated heat waves on the behavior of two mirid predators. *Journal of Applied Entomology* 147, 486-498. doi: 10.1111/jen.13127
21. Wolf S, Collatz J, Enkerli J, Widmer F, **Romeis J** (2023) Assessing potential hybridization between a hypothetical gene drive-modified *Drosophila suzukii* and nontarget *Drosophila* species. *Risk Analysis* 43, 1921-1932. doi:10.1111/risa.14096
22. Meissle M, Waldburger M, Jeanneret P, Broggini GAL, Patocchi A, **Romeis J** (2023) Insect pollinator monitoring in and around a netted plot of apple trees – Biosafety implications for genetically engineered fruit trees. *Agronomy* 13, 84, doi: 10.3390/agronomy13010084
23. Gonthier J, Arnó J, **Romeis J**, Collatz J (2023). Few indirect effects of baculovirus on parasitoids demonstrate high compatibility of biocontrol methods against *Tuta absoluta*. *Pest Management Science* 79, 1431-1441, doi: 10.1002/ps.7314
24. Boss A, **Romeis J**, Meissle M (2023) Prey-mediated effects of mCry51Aa2-producing cotton on the predatory nontarget bug *Orius majusculus* (Reuter). *Insect Science* 30, 1191-1206. doi: 10.1111/1744-7917.13143
25. Connolly JB, **Romeis J**, Devos Y, Glandorf DCM, Turner G, Coulibaly MB (2023) Gene drive in species complexes: Defining target organisms. *Trends in Biotechnology* 41, 154-164. doi: 10.1016/j.tibtech.2022.06.013
26. Gonthier J, Zhang Y-B, Zhang, G-F, **Romeis J**, Collatz J (2023) Odor learning improves efficacy of egg parasitoids as biocontrol agent against *Tuta absoluta*. *Journal of Pest Science* 96, 105-117. doi: 10.1007/s10340-022-01484-6
27. Tonui WK, Ahuja V, Beech CJ, Connolly JB, Dass B, Glandorf DCM, James S, Muchiri JN, Mugoya CF, Okoree EA, Quemada H, **Romeis J** (2023) Points to consider in seeking biosafety approval for research, testing, and environmental release of experimental genetically modified biocontrol products during research and development. *Transgenic Research* 41, 154-164. doi: 10.1007/s11248-022-00311-z
28. Schlathöller I, Meissle M, Boeriis T, Heimo D, Studer B, Broggini GAL, **Romeis J**, Patocchi A (2022) No adverse dietary effect of a cisgenic fire blight resistant apple line on the non-target arthropods *Drosophila melanogaster* and *Folsomia candida*. *Ecotoxicology and Environmental Safety* 241, 113749
29. Connolly JB, Mumford JD, Glandorf DCM, Hartley S, Lewis OT, Evans SW, Turner G, Beech C, Sykes N, Coulibaly MB, **Romeis J**, Teem JL, Tonui W, Lovett B, Mankad A, Mnzava A, Fuchs S, Hackett TD, Landis WG, Marshall JM, Aboagye-Antwi F (2022) Recommendations for environmental risk assessment of gene drive applications for malaria vector control. *Malaria Journal* 21, 152. doi: 10.1186/s12936-022-04183-w

30. Meissle M, Naranjo SE, **Romeis J** (2022) Does the growing of Bt maize change abundance or ecological function of non-target animals compared to the growing of non-GM maize? A systematic review. *Environmental Evidence* 11, 21. doi: 10.1186/s13750-022-00272-0
31. Meissle M, Naranjo SE, **Romeis J** (2022) Database of non-target invertebrates recorded in field experiments of genetically engineered Bt maize and corresponding non-Bt maize. *BMC Research Notes* 15, 199. doi: 10.1186/s13104-022-06021-3
32. Häner N, Amiresmaeili, Stähli N, **Romeis J**, Collatz J (2022) Overwintering of two pupal parasitoids of *Drosophila* under natural conditions. *Journal of Thermal Biology* 106, 103232. doi: 10.1016/j.jtherbio.2022.103231
33. Wang Y, Liu Q, Song X, Xiaowei Y, **Romeis J**, Li Y (2022) Unintended changes in transgenic maize cause no non-target effects. *Plants, People, Planet* 4, 392-402. doi: 10.1002/ppp3.10260
34. Chen Y, **Romeis J**, Meissle M (2022) No adverse effects of stacked Bt maize on the midge *Chironomus riparius*. *Environmental Toxicology and Chemistry* 41, 1078-1088
35. Zhang Y, Tian X, Wang H, Casteñé C, Arnó J, Collatz J, **Romeis J**, Wu S, Xian X, Wan F, Zhang G (2022) Host selection behavior of a host-feeding parasitoid *Necremnus tutae* on *Tuta absoluta*. *Entomologia Generalis* 42, 445-456
36. Chen Y, **Romeis J**, Meissle M (2021) Addressing the challenges of non-target feeding studies with genetically engineered plant material – stacked Bt maize and *Daphnia magna*. *Ecotoxicology and Environmental Safety* 225, 112721
37. Schlathöller I, Dalbosco A, Meissle M, Knauf A, Dallemulle A, Keller B, **Romeis J**, Broggini GAL, Patocchi A (2021) Low outcrossing from an apple field trial protected with nets. *Agronomy* 11, 1754
38. Li X, Du L, Zhang L, Peng Y, Hua H, **Romeis J**, Li Y (2021) Reduced *Mythimna separata* infestation on Bt corn could benefit aphids. *Insect Science* 28, 1139–1146
39. Brock TCM, Elliott KC, Gladbach A, Moermond C, **Romeis J**, Seiler T-B, Solomon K, Dohmen GP (2021) Open science in regulatory environmental risk assessment. *Integrated Environmental Assessment and Management* 17, 1229-1242
40. Collatz J, **Romeis J** (2021) Flowers and fruits prolong lifespan of drosophila pupal parasitoids. *Journal of Applied Entomology* 145, 629-634
41. Tian X-C, Xian X-Q, Zhang G-F, Castañé C, **Romeis J**, Wan F-H, Zhang Y-B (2021) Complete mitochondrial genome of a predominant parasitoid, *Necremnus tutae* (Hymenoptera: Eulophidae) of the South American tomato leafminer *Tuta absoluta* (Lepidoptera: Gelechiidae). *Mitochondrial DNA, Part B* 6, 562-563
42. Chen Y, **Romeis J**, Meissle M (2021) Performance of *Daphnia magna* on flour, leaves, and pollen from different maize lines: Implications for risk assessment of genetically engineered crops. *Ecotoxicology and Environmental Safety* 212, 111967
43. Meissle M, Kloos S, **Romeis J** (2021) Fate of multiple Bt proteins from stacked Bt maize in the predatory lady beetle *Harmonia axyridis* (Pallas) (Coleoptera: Coccinellidae). *Environmental Pollution* 268, 115421
44. Wolf S, Barmettler E, Eisenring M, **Romeis J**, Collatz J (2021) Host searching and host preference of resident pupal parasitoids of *Drosophila suzukii* in the invaded regions. *Pest Management Science* 77, 243-252
45. Li Y, Wang Z, **Romeis J** (2021) Managing the invasive fall armyworm through biotech crops: a Chinese perspective. *Trends in Biotechnology* 39, 105-107
46. Kim Y-J, Kloos S, **Romeis J**, Meissle M (2021) Effects of mCry51Aa2-producing cotton on the non-target spider mite *Tetranychus urticae* Koch (Acari: Tetranychidae) and the predatory bug *Orius majusculus* (Reuter) (Hemiptera: Anthocoridae). *Journal of Pest Science* 94, 351-362
47. Amiresmaeili N, **Romeis J**, Collatz J (2020) Cold tolerance of the drosophila pupal parasitoid *Trichopria drosophilae*. *Journal of Insect Physiology* 125, 104087

48. Liu Q, Yang X, Tzin V, Peng Y, **Romeis J**, Li Y (2020) Plant breeding involving genetic engineering does not result in unacceptable unintended effects in rice relative to conventional cross-breeding. *The Plant Journal* 103, 2236-2249
49. Roberts A, Boeckman CJ, Mühl M, **Romeis J**, Teem JL, Valicente FH, Brown JK, Edwards MG, Levine SL, Melnick RL, Rodrigues TB, Vélez AM, Zhou X, Hellmich RL (2020) Sublethal endpoints in non-target organism testing for insect active GE crops. *Frontiers in Bioengineering and Biotechnology* 8, 556
50. Pan H, Yang X, **Romeis J**, Siegfried BD, Zhou X (2020) Dietary RNAi toxicity assay exhibits differential responses to ingested dsRNAs among ladybeetles. *Pest Management Science* 76, 3606-3614
51. **Romeis J**, Widmer F (2020) Assessing the risks of topically applied dsRNA-based products to non-target arthropods. *Frontiers in Plant Science*, 11, 679
52. **Romeis J**, Collatz J, Glandorf DCM, Bonsall MB (2020) The value of existing regulatory frameworks for the environmental risk assessment of agricultural pest control using gene drives. *Environmental Science & Policy* 108, 19-36
53. Ghazanfar MU, Hagenbucher S, **Romeis J**, Grabenweger G, Meissle M (2020) Fluctuating temperatures influence the susceptibility of pest insects to biological control agents. *Journal of Pest Science* 93, 1007-1018
54. Eriksson D, Custers R, Björnberg KE, Hansson SO, Purnhagen K, Qaim M, **Romeis J**, Schiemann J, Schleissing S, Tosun J, Visser RGF (2020) Options to reform the European Union legislation on GMOs: post-authorization and beyond. *Trends in Biotechnology* 38, 465-467
55. Eriksson D, Custers R, Björnberg KE, Hansson SO, Purnhagen K, Qaim M, **Romeis J**, Schiemann J, Schleissing S, Tosun J, Visser RGF (2020) Options to reform the European Union legislation on GMOs: risk governance. *Trends in Biotechnology* 38, 349-351
56. Eriksson D, Custers R, Björnberg KE, Hansson SO, Purnhagen K, Qaim M, **Romeis J**, Schiemann J, Schleissing S, Tosun J, Visser RGF (2020) Options to reform the European Union legislation on GMOs: scope and definitions. *Trends in Biotechnology* 38, 231-234
57. **Romeis J**, Meissle M (2020) Stacked Bt proteins pose no new risks to non-target arthropods. *Trends in Biotechnology* 38, 234-236
58. Wolf S, Boycheva-Woltering S, **Romeis J**, Collatz J (2020) *Trichopria drosophilae* parasitizes *Drosophila suzukii* in seven common non-crop fruits. *Journal of Pest Science* 93, 627-638
59. Yang Y, Kloos S, Mora-Ramírez I, **Romeis J**, Brunner S, Li Y, Meissle M (2019) Transgenic winter wheat expressing the sucrose transporter HvSUT1 from barley does not affect aphid performance. *Insects* 10, 388
60. Devos Y, Craig W, Devlin RH, Ippolito A, Leggatt RA, **Romeis J**, Shaw R, Svendsen C, Topping CJ (2019) Using problem formulation for fit-for-purpose pre-market environmental risk assessments of regulated stressors. *EFSA Journal* 17(S1), e170708
61. Hagenbucher S, Eisenring M, Meissle M, Rathore KS, **Romeis J** (2019) Constitutive and induced insect resistance in RNAi-mediated ultra-low gossypol cottonseed cotton. *BMC Plant Biology* 19, 322
62. Boycheva Woltering S, **Romeis J**, Collatz J (2019) Influence of the rearing host on biological parameters of *Trichopria drosophilae*, a potential biological control agent of *Drosophila suzukii*. *Insects* 10, 183
63. Álvarez-Alfageme F, Devos Y, Muñoz-Guajardo I, Li Y, **Romeis J**, Meissle M (2019) Are ladybird beetles (Coleoptera: Coccinellidae) affected by Bt proteins expressed in genetically modified insect-resistant crops? A systematic review protocol. *Environmental Evidence* 8, 25
64. Haller S, Widmer F, Siegfried BD, Zhou X, **Romeis J** (2019) Responses of two ladybird beetle species (Coleoptera: Coccinellidae) to dietary RNAi. *Pest Management Science* 75, 2652-2662

65. Schiemann J, Dietz-Pfeilstetter A, Hartung F, Kohl C, **Romeis J**, Sprink, T (2019) Risk assessment and regulation of plants modified by modern biotechniques: current status and future challenges. *Annual Review of Plant Biology* 70, 699-726
66. Eisenring M, Naranjo SE, Bacher S, Abbott A, Meissle M, **Romeis J** (2019) Release from plant-mediated indirect competition with caterpillars benefits plant bugs in Bt cotton. *Scientific Reports* 9, 2727
67. **Romeis J**, Naranjo SE, Meissle M, Shelton AM (2019) Genetically engineered crops help support conservation biological control. *Biological Control* 130, 136-154
68. Xie X, Cui Z, Wang Y, Wang YY, Cao F, **Romeis J**, Peng Y, Li Y (2019) *Bacillus thuringiensis* maize expressing a fusion gene *cry1Ab/cry1AcZM* does not harm valued pollen feeders. *Toxins* 11, 8
69. Eisenring M, Glauser G, Meissle M, **Romeis J** (2018) Differential impact of herbivores from three feeding guilds on systemic secondary metabolite induction, phytohormone levels and plant-mediated herbivore interactions. *Journal of Chemical Ecology* 44, 1178-1180
70. Chen Y, Gao Y, Zhua H, **Romeis J**, Li Y, Peng Y, Chen X (2018) Effects of straw leachates from Cry1C-expressing transgenic rice on the development and reproduction of *Daphnia magna*. *Ecotoxicology and Environmental Safety* 165, 630-636
71. Jiao Y, Hu X, Peng Y, Wu K, **Romeis J**, Li Y (2018) Bt rice plants may protect neighbouring non-Bt rice plants against the striped stem borer *Chilo suppressalis*. *Proceedings of the Royal Society B* 285, 20181283
72. Lüthi C, Álvarez-Alfageme F, **Romeis J** (2018) The bean α -amylase inhibitor α AI-1 in genetically modified chickpea seeds does not harm parasitoid wasps. *Pest Management Science*, doi: 10.1002/ps.4919
73. Tian J-C, Wang G-W, Han H-L, **Romeis J**, Zhang F-C, Ye G-Y, Xie M-C, Wang G-Y, Lu Z-X (2018) The rice planthopper parasitoid *Anagrus nilaparvatae* is not at risk when feeding on honeydew derived from *Bacillus thuringiensis* (Bt) rice. *Pest Management Science* 74, 1854-1860
74. Wang X, Liu Q, Meissle M, Peng Y, Wu K, **Romeis J**, Li Y (2018) Bt rice could provide ecological resistance to non-target planthoppers. *Plant Biotechnology Journal* 16, 1748-1755
75. Meissle M, **Romeis J** (2018) Transfer of Cry1Ac and Cry2A proteins from genetically engineered Bt cotton to herbivores and predators. *Insect Science* 25, 823-832
76. Wolf S, **Romeis J**, Collatz J (2018) Utilization of plant-derived food sources from annual flower strips by the harlequin ladybird *Harmonia axyridis*. *Biological Control* 122, 118-126
77. Wolf S, Zeisler C, Sint S, **Romeis J**, Traugott M, Collatz J (2018) A simple and cost-effective molecular way to track predation on *Drosophila suzukii* in the field. *Journal of Pest Science* 91, 927-935
78. Yang Y, Zhang B, Zhou X, **Romeis J**, Peng Y, Li Y (2018) Toxicological and biochemical analyses demonstrate the absence of lethal or sublethal effects of *cry1C* and *cry2A*-expressing Bt rice on the collembolan *Folsomia candida*. *Frontiers in Plant Science* 9, 131
79. Shu Y, **Romeis J**, Meissle M (2018) No interactions of stacked Bt maize with the non-target aphid *Rhopalosiphum padi* and the spider mite *Tetranychus urticae*. *Frontiers in Plant Science* 9, 39
80. Tian J-C, Wang X-P, Chen Y, **Romeis J**, Naranjo SE, Hellmich RL, Wang P, Shelton AM (2018) Bt cotton producing Cry1Ac and Cry2Ab does not harm two parasitoids, *Cotesia marginiventris* and *Copidosoma floridanum*. *Scientific Reports* 8, 307
81. Chen Y, Yang Y, Zhu H, **Romeis J**, Li Y, Peng Y, Chen X (2018) Safety of *Bacillus thuringiensis* Cry1C protein for *Daphnia magna* based on different functional traits. *Ecotoxicology and Environmental Safety* 147, 631-636
82. Haller S, **Romeis J**, Meissle M (2017) Effects of purified or plant-produced Cry proteins on *Drosophila melanogaster* (Diptera: Drosophilidae) larvae. *Scientific Reports* 7, 11172

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87. Hagenbucher S, Eisenring M, Meissle M, **Romeis J** (2017) Interaction of transgenic and natural insect resistance mechanisms against *Spodoptera littoralis* in cotton. *Pest Management Science* 73, 1670-1678
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91. Knoll V, Ellenbroek T, **Romeis J**, Collatz J (2017) Seasonal and regional presence of hymenopteran parasitoids of *Drosophila* in Switzerland and their ability to parasitize the invasive *Drosophila suzukii*. *Scientific Reports* 7, 40697
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96. Devos Y, Gaugitsch H, Gray AJ, Maltby L, Martin J, Pettis JS, **Romeis J**, Rortais A, Schoonjans R, Smith J, Streissl F, Suter II GW (2016) Advancing environmental risk assessment of regulated products under EFSA's remit. *EFSA Journal* 14(S1), s0508
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