

List of Publications (December 2024)

Peer-Reviewed Journals

1. Zannou AJ, **Romeis J**, Collatz J (2024) Response of the tomato leaf miner *Phthorimaea absoluta* to wild and domesticated tomato genotypes. *Pest Management Science*, doi: 10.1002/ps.8534
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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
10. 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
11. 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
12. 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
13. 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
14. 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
15. Schlathölder 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

16. 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
17. 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
18. 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
19. Häner N, Amiresmaeli, 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
20. 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
21. 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
22. 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
23. 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
24. Schlathöller I, Dalbosco A, Meissle M, Knauf A, Dallemulle A, Keller B, **Romeis J**, Brogгинi GAL, Patocchi A (2021) Low outcrossing from an apple field trial protected with nets. *Agronomy* 11, 1754
25. 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
26. 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
27. Collatz J, **Romeis J** (2021) Flowers and fruits prolong lifespan of drosophila pupal parasitoids. *Journal of Applied Entomology* 145, 629-634
28. 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
29. 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
30. 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
31. 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
32. Li Y, Wang Z, **Romeis J** (2021) Managing the invasive fall armyworm through biotech crops: a Chinese perspective. *Trends in Biotechnology* 39, 105-107

33. 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
34. Amiresmaeili N, **Romeis J**, Collatz J (2020) Cold tolerance of the drosophila pupal parasitoid *Trichopria drosophilae*. *Journal of Insect Physiology* 125, 104087
35. 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
36. 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
37. 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
38. **Romeis J**, Widmer F (2020) Assessing the risks of topically applied dsRNA-based products to non-target arthropods. *Frontiers in Plant Science*, 11, 679
39. **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
40. 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
41. 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
42. 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
43. 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
44. **Romeis J**, Meissle M (2020) Stacked Bt proteins pose no new risks to non-target arthropods. *Trends in Biotechnology* 38, 234-236
45. 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
46. 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
47. 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
48. 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
49. 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

50. 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
51. 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
52. 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
53. 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
54. **Romeis J**, Naranjo SE, Meissle M, Shelton AM (2019) Genetically engineered crops help support conservation biological control. *Biological Control* 130, 136-154
55. 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
56. 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
57. 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
58. 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
59. 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
60. 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
61. 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
62. 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
63. 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
64. 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
65. 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
66. 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
67. 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

68. 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
69. 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
70. Tian J-C, **Romeis J**, Liu K, Zhang F-C, Zheng X-S, Xu H-X, Lu Z-X (2017) Assessing the effects of Cry1C rice and Cry2A rice to *Pseudogonatopus flavifemur*, a parasitoid of rice planthoppers. *Scientific Reports* 7, 7838
71. Eisenring M, **Romeis J**, Naranjo SE, Meissle M (2017) Multitrophic toxin flow in a Bt-cotton field. *Agriculture, Ecosystems and Environment* 247, 283-289
72. Svobodová Z, Shu Y, Habuštová OS, **Romeis J**, Meissle M (2017) Stacked Bt maize and arthropod predators – Exposure to insecticidal Cry proteins and potential hazards. *Proceedings of the Royal Society B* 284, 20170440
73. Li Y, Zhang Q, Liu Q, Meissle M, Yang Y, Wang Y, Hua H, Chen X, Peng Y, **Romeis J** (2017) Bt rice in China—focusing the non-target risk assessment. *Plant Biotechnology Journal* 15, 1340-1345
74. 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
75. Wang Y, Dai P, Chen X, **Romeis J**, Shi J, Peng Y, Li Y (2017) Ingestion of Bt rice pollen does not reduce the survival or hypopharyngeal gland development of *Apis mellifera* adults. *Environmental Toxicology and Chemistry* 36, 1243-1248
76. Li Y, Liu Y, Yin Y, **Romeis J**, Chen X, Song X, Peng Y, Li Y (2017) Consumption of Bt maize pollen containing CryIIe does not negatively affect *Propylea japonica* (Thunberg) (Coleoptera: Coccinellidae). *Toxins* 9, 108
77. Eisenring M, Meissle M, Hagenbucher S, Wettstein F, Naranjo SE, **Romeis J** (2017) Cotton defense induction patterns under spatially, temporally and quantitatively varying herbivory levels. *Frontiers in Plant Science* 8, 234
78. 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
79. Liu Q, Wang X, Tzin V, **Romeis J**, Peng Y, Li Y (2016) Combined transcriptome and metabolome analyses reveal the dynamic responses of rice plants to attack by the rice stem borer *Chilo suppressalis* (Lepidoptera: Pyralidae). *BMC Plant Biology* 16, 259
80. Haller S, Meissle M, **Romeis J** (2016) Establishing a system with *Drosophila melanogaster* (Diptera: Drosophilidae) to assess the non-target effects of gut-active insecticidal compounds. *Ecotoxicology* 25, 1794-1804
81. Tian J-C, Wang G-W, **Romeis J**, Zheng X-S, Xu H-X, Zang L-S, Lu Z-X (2016) Different performance of two *Trichogramma* (Hymenoptera: Trichogrammatidae) species feeding on sugars. *Environmental Entomology* 45, 1316-1321
82. Wach M, Hellmich RL, Layton R, **Romeis J**, Gadaleta PG (2016) Dynamic role and importance of surrogate species for assessing potential adverse environmental impacts of genetically engineered insect-resistant plants on non-target organisms. *Transgenic Research* 25, 499-505
83. 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
84. Liu Y, Liu Q, Wang Y, Chen X, Song X, **Romeis J**, Li Y, Peng Y (2016) Ingestion of Bt corn pollen containing Cry1Ab/2Aj or Cry1Ac does not harm *Propylea japonica* larvae. *Scientific Reports* 6, 23507

85. De Schrijver A, Devos Y, De Clercq P, Gathmann A, **Romeis J** (2016) Quality of laboratory studies assessing effects of Bt-proteins on non-target organisms: minimal criteria for acceptability. *Transgenic Research* 25, 395-411
86. Guo Y-Y, Tian J-C, Shi W-P, Dong X-H, **Romeis J**, Naranjo SE, Hellmich RL, Shelton AM (2016) The interaction of two-spotted spider mites, *Tetranychus urticae* Koch, with Cry protein production and predation by *Amblyseius andersoni* (Chant) in Cry1Ac/Cry2Ab cotton and Cry1F maize. *Transgenic Research* 25, 33-44
87. Tian J-C, Yao J, Long L-P, **Romeis J**, Shelton AM (2015) Bt crops benefit natural enemies to control non-target pests. *Scientific Reports* 5, 16636
88. Yang Y, Chen X, Cheng L, Cao F, **Romeis J**, Li Y, Peng Y (2015) Toxicological and biochemical analyses demonstrate no toxic effect of Cry1C and Cry2A to *Folsomia candida*. *Scientific Reports* 5, 15619
89. Liu Q, Li Y, **Romeis J**, Yu H, Zhang Y, Peng Y (2015) Bt rice does not disrupt the host-searching behavior of the parasitoid *Cotesia chilonis*. *Scientific Reports* 5, 15295
90. Devos Y, **Romeis J**, Luttik R, Maggiore A, Perry JN, Schoonjans R, Streissl F, Tazazona JV, Brock TCM (2015) Optimising environmental risk assessments. Accounting for ecosystem services helps to translate broad policy protection goals into specific operational ones for environmental risk assessments. *EMBO Reports* 16, 1060-1063
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95. Su H-H, Tian J-C, Naranjo SE, **Romeis J**, Hellmich RL, Shelton AM (2015) *Bacillus thuringiensis* plants expressing Cry1Ac, Cry2Ab and Cry1F are not toxic to the assassin bug, *Zelus renardii*. *Journal of Applied Entomology* 139, 23-30
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99. Hagenbucher S, Wäckers FL, **Romeis J** (2014) Aphid honeydew quality as a food source for parasitoids is maintained in Bt cotton. *PLoS ONE* 9, e107806
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