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Peer reviewed publications

1. Christen V, Schirrmann M, Frey JE, Fent K (2018) Global transcriptomic effects of environmentally relevant concentrations of the neonicotinoids clothianidin, imidacloprid and thiamethoxam in honey bees (*Apis mellifera*). *Environmental Science & Technology*, doi: 10.1021/acs.est.8b01801.
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3. Blaser S, Diem H, von Felten A, Gueuning M, Andreou M, Boonham N, Tomlinson J, Müller P, Utzinger J, Frey J, Bühlmann A (2018) From laboratory to point of entry: Development and implementation of a loop-mediated isothermal amplification (LAMP)-based genetic identification system to prevent introduction of quarantine insect species. *Pest Management Science* doi:10.1002/ps.4866
4. Schmid M, Muri J, Melidis D, Ravikumar Varadarajan A, Somerville V, Wicki A, Moser A, Bourqui M, Wenzel C, Eugster-Meier E, Frey JE, Irmeler S, H Ahrens CH (2018) Comparative genomics of completely sequenced *Lactobacillus helveticus* genomes provides insights into strain-specific genes and resolves metagenomics data down to the strain level. *Frontiers Microbiol.* In the press.
5. Omasits U, Varadarajan AR, Schmid M, Goetze S, Melidis D, Bourqui M, Nikolayeva O, Quebatte M, Patrignani A, Dehio C et al (2017) An integrative strategy to identify the entire protein coding potential of prokaryotic genomes by proteogenomics. *Genome Res* 27(12):2083-2095.
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8. Rezzonico F, Smits TH, Born Y, Blom J, Frey JE, Goesmann A, Cleenwerck I, de Vos P, Bonaterra A, Duffy B, Montesinos E. (2016) *Erwinia gerundensis* sp. nov., a cosmopolitan epiphyte originally isolated from pome fruit trees. *Int J Syst Evol Microbio* 66: 1583-1592, doi: 10.1099/ijsem.0.000920.
9. Schneeberger PHH, Becker SL, Pothier JF, Duffy B, N'Goran EK, Beuret C, Frey JE, Utzinger J. (2016) Metagenomic diagnostics for the simultaneous detection of multiple pathogens in human stool specimens from Côte d'Ivoire: a proof-of-concept study. *Infection, Genetics and Evolution*, doi:10.1016/j.meegid.2015.08.044.
10. Reynard J-S, Schneeberger PHH, Frey J, Schaerer S (2015) Biological, serological and molecular characterization of a highly divergent strain of GLRaV-4 causing grapevine leafroll disease. *Phytopathology* 03/2015; DOI:10.1094/PHYTO-12-14-0386-R.
11. Kiewnick S, Frey J, Braun-Kiewnick A (2015) Development and validation of LNA-based quantitative real-time PCR assays for detection and identification of the root-knot nematode

- Meloidogyne enterolobii* in complex DNA backgrounds. *Phytopathology* 03/2015; DOI:10.1094/PHYTO-12-14-0364-R.
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 20. Mann RA, Smits THM, Bühlmann A, Blom J, Goesmann A, Frey JE, Plummer KM, Beer SV, Luck J, Duffy B, Rodoni B (2013) Comparative Genomics of 12 Strains of *Erwinia amylovora* Identifies a Pan-Genome with a Large Conserved Core. *PLoS ONE* 8(2): e55644. doi:10.1371/journal.pone.0055644
 21. Frey JE, Guillén L, Frey B, Samietz J, Rull J, Aluja M. (2013) Developing diagnostic SNP panels for the identification of true fruit flies (Diptera: Tephritidae) within the limits of COI-based species delimitation. *BMC Evolutionary Biology* 13 (1), 106.
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 23. Bühlmann A, Pothier JF, Tomlinson JA, Frey JE, Boonham N, Smits TM, Duffy, B (2012) Genomics-informed design of loop-mediated isothermal amplification for detection of phytopathogenic *Xanthomonas arboricola* pv. *pruni* at the intraspecific level. *Plant Pathology*, doi: 10.1111/j.1365-3059.2012.02654.x .
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 28. Jansch M, Frey JE, Hilber-Bodmer M, Broggin GAL, Weger J, Schnabel G, Patocchi A (2011) SSR marker analysis of *Monilinia fructicola* from Swiss apricots suggests introduction of the pathogen from neighbouring countries and the United States. *Plant Pathology*, DOI: 10.1111/j.1365-3059.2011.02511.x
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34. Kiewnick S, Wolf S, Willareth M, Frey JE (2011) Development of a simple multiplex PCR protocol for identification of the tropical root-knot nematode species *Meloidogyne incognita*, *M. arenaria* and *M. javanica*. *J. Plant Dis. Protect.*. 118, (3), 146-146.
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Book Chapters, Scientific Journals and Separata

1. Kiewnick S, Bühlmann A, Frey JE (2016) DNA barcoding of invertebrate plant pests. Chapter 6 in: *Molecular Methods in Plant Disease Diagnostics*, Boonham N, Tomlinson J, Mumford R (eds). CABI, Oxfordshire, UK.
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Applied agronomic journals

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Patents

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