

David Drissner, Prof. Dr.

Albstadt-Sigmaringen University, Department of Life Sciences, Anton-Günther-Str. 51, D-72488 Sigmaringen

Mail drissner@hs-albsig.de

Education and work experience

- Since 09/18: Professor of Microbiology, Food Hygiene and Consumer Health at the Department of Life Sciences, Albstadt-Sigmaringen University, Germany.
- 12/10 – 07/18: Head of Research Group Microbiology of Plant Foods, Swiss Federal Research Station Agroscope, Switzerland.
- 01/08 – 11/10: Scientist and Project Leader at the Swiss Federal Research Station Agroscope, Research group Food microbiology and Analytics, Switzerland.
- 10/03 – 01/08: Dissertation (Dr. sc. ETH Zurich) at ETH Zurich, Department of Biology, Switzerland.
- 10/98 – 09/03: Studies in Biology (Dipl.-Biol.) at the University of Tübingen, Faculty of Biology, Germany.

Most relevant publications from the last five years

- Gekenidis M.-T., Schöner U., von Ah U., Schmelcher M., Walsh F., Drissner D. 2018. Tracing back multidrug-resistant bacteria in fresh herb production: from chive to source through the irrigation water chain. *FEMS Microbiology Ecology* 94: fiy149.
- Eißenberger K., Moench D., Drissner D., Weiss A., Schmidt H. 2018. Adherence factors of enterohemorrhagic *Escherichia coli* O157:H7 strain Sakai influence its uptake into the roots of *Valerianella locusta* grown in soil. *Food Microbiology*. 2018 (76):245-256.
- Etter D., Rupp A., Prange A., Drissner D. 2018. Inactivation of mould spores in a model system and on raisins by low energy electron beam. *Food Control* 92: 357e361.
- Drissner D., Freimoser F. M. 2017. MALDI-TOF mass spectroscopy of yeasts and filamentous fungi for research and diagnostics in the agricultural value chain. *Chemical and Biological Technologies in Agriculture* 4: 1-13.
- Gekenidis M.-T., Gossin D., Schmelcher M., Schöner U., Remus-Emsermann M.N.P., Drissner D. 2017. Dynamics of culturable mesophilic bacterial communities of three fresh herbs and their production environment. *Journal of Applied Microbiology*, doi 10.1111/jam.13532.
- Thanner S., Drissner D., Walsh F. 2016. Antimicrobial resistance in agriculture. *mBIO* 7 (2).
- Czekalski N., Imming S., Salhi E., Veljkovic M., Kleffel K., Drissner D., Hammes F., Bürgmann H., von Gunten U. 2016. Inactivation of antibiotic resistant bacteria and resistance genes by ozone: from laboratory experiments to full-scale wastewater treatment. *Environmental Science & Technology* 50: 11862–11871.
- Pfrunder S., Grossmann J., Hunziker P., Brunisholz R., Gekenidis M.-T., Drissner D. 2016. *Bacillus cereus* group type strain-specific diagnostic peptides. *Journal of Proteome Research* 15: 3098–3107.
- Remus-Emsermann M.N.P., Schmid M., Gekenidis M.-T., Pelludat C., Frey J.E., Ahrens C.H., Drissner D. 2016. Complete genome sequence of *Pseudomonas citronellolis* P3B5, a candidate for microbial phyllo-remediation of hydrocarbon-contaminated sites. *Standards in Genomic Sciences* 11: 75.
- Remus-Emsermann M.N.P., Gisler P., Drissner D. 2016. MiniTn7-transposon delivery vectors for inducible or constitutive fluorescent protein expression in *Enterobacteriaceae*. *FEMS Microbiology Letters* 363: fnw178.
- Freimoser F. M., Hilber-Bodmer M., Brunisholz R., Drissner D. 2016. Direct identification of *Monilinia brown* rot fungi on infected fruits by matrix-assisted laser desorption/ionization (MALDI) mass spectrometry. *Chemical and Biological Technologies in Agriculture* 3: 1-10.
- Weiss A., Scheller F., Oggenfuss M., Walsh F., Frey J. E., Drissner D., Schmidt H., 2015. Analysis of the bacterial epiphytic microbiota of oak leaf lettuce with 16S ribosomal RNA gene analysis. *Journal of Microbiology, Biotechnology and Food Sciences* 5 (3): 271-276.
- Gekenidis M.-T., Studer P., Wüthrich S., Brunisholz R., Drissner D. 2014. Beyond the matrix-assisted laser desorption ionization (MALDI) biotyping workflow: in search of microorganism-specific tryptic peptides enabling discrimination of subspecies. *Applied and Environmental Microbiology* 80 (14): 4234-4241.
- Drissner D., Gekenidis M.-T., Schlapbach R., Brunisholz R. 2014. When time-to-result matters: identification of microbes based on MALDI-TOF protein and peptide profiling. *Chimia* 68 (6): 453-453.
- Studer P., Heller W. E., Hummerjohann J., Drissner D. 2013. Evaluation of aerated steam treatment of alfalfa and mung bean seeds to eliminate high levels of *Escherichia coli* O157:H7 and O178:H12, *Salmonella enterica*, and *Listeria monocytogenes*. *Applied and Environmental Microbiology* 79 (15): 4613-4619.
- ### **Chapters in edited books**
- Drissner D., Brunisholz R. 2017. Biotyping meets proteomics: mass spectrometry-based approaches for characterization of microorganisms. In M. L. Colgrave (ed.), *Proteomics in Food Science: From Paddock to Plate*. pp. 433-447, Elsevier, Oxford, United Kingdom.
- Drissner D., Brunisholz R., Schlapbach R. Gekenidis, M.-T. 2016. Rapid profiling of human pathogenic bacteria and antibiotic resistance employing specific tryptic peptides as biomarkers. In P. Demirev and T. Sandrin (ed), *Applications of mass spectrometry in microbiology: From strain characterization to rapid screening for antibiotic resistance*. pp. 275-303, Springer International Publishing AG, Cham, Switzerland.
- Drissner D., Zuercher U. 2014. Microbial safety of fresh fruits and vegetables. In Y. Motarjemi, E. Todd, and G. Moy (ed.), *Encyclopedia of Food Safety*. Volume 3, pp. 253-259, Elsevier, Oxford, United Kingdom.