

## 1. Articles in peer-reviewed journals

1. E. KRÖBER, S. WENDE, S. KANUKOLLU, C. BUCHEN-TSCHISKALE, L. BESAURY, F. KEPPLER, S. VUILLEUMIER, S. KOLB, **F. BRINGEL\*** (2021) <sup>13</sup>C-chloromethane incubations provide evidence for novel bacterial chloromethane degraders in a living tree fern. *Environmental Microbiology*. In press
2. K. HAYOUN, E. GEERSENS, C.C. LAZNY, R. HALDER, C. LÀRARO SÀNCHEZ, A. MANNA, **F. BRINGEL**, M. RYCKELYNCK, P. WILMES, E.E.L. MULLER, B. ALPHA-BAZIN, J. ARMENGAUG, S. VUILLEUMIER (2020) dichloromethane degradation pathway from unsequenced *Hyphomicrobium* sp. Mc8b quickly explored by pan-proteomics. *Microorganisms* 8(12):1876. doi: 10.3390/microorganisms8121876
3. B. MAUCOURT, S. VUILLEUMIER, **F. BRINGEL\*** (2020) Transcriptional regulation of organohalide pollutant utilisation in bacteria. *FEMS Microbiology Reviews* pii: fuua002. doi: 10.1093/femsre/fuua002
4. B. BOACHON, Y. BURDLOFF, J.-X. RUAN, R. ROJO, R.R. JUNKER, B. VINCENT, F. NICOLÈ, **F. BRINGEL**, A. LESOT, L. HENRY, J.E. BASSARD, S. MATHIEU, L. ALLOUCHE, I. KAPLAN, N. DUDAREVA, S. VUILLEUMIER, L. MIESCH, F. ANDRÉ, N. NAVROT, X.Y. CHEN, D. WERCK (2019) A promiscuous *cyp706a3* reduces terpene volatile emission from *Arabidopsis* flowers, affecting florivores and the floral microbiome. *Plant Cell* pii: tpc.00320.2019. doi: 10.1105/tpc.19.00320.
5. **F. BRINGEL#**, L. BESAURY, P. AMATO, E. KRÖBER, S. KOLB, F. KEPPLER, S. VUILLEUMIER, T. NADALIG (2019) Methylophs and methyloph populations for chloromethane degradation. *Current Issues In Molecular Biology*33, 149-172. doi: 10.21775/cimb.033.149. Invité par l'éditrice M. CHISTOSERDOVA.
6. P. CHAIGNAUD, M. MORAWE, L. BESAURY, E. KRÖBER, S. VUILLEUMIER, **F. BRINGEL#**, S. KOLB (2018) Methanol consumption drives the bacterial chloromethane sink in a forest soil. *ISME Journal* 12(11), 2681-2693 doi: 10.1038/s41396-018-0228-4.
7. N. JAEGER, L. BESAURY, A. N. RÖHLING, F. KOCH, A.-M. DELORT, C. GASC, M. GREULE, S. KOLB, T. NADALIG, P. PEYRET, S. VUILLEUMIER, P. AMATO, **F. BRINGEL#**, F. KEPPLER (2018) Chloromethane formation and degradation in the fern phyllosphere. *Science of the Total Environment* 634, 1278-1287. doi: 10.1016/j.scitotenv.2018.03.316.
8. N. JAEGER, L. BESAURY, E. KRÖBER, A.-M. DELORT, M. GREULE, K. LENHART, T. NADALIG, S. VUILLEUMIER, P. AMATO, S. KOLB, **F. BRINGEL#**, F. KEPPLER (2018) Chloromethane degradation in soils - a combined microbial and two-dimensional stable isotope approach. *Journal of Environmental Quality* 47, 254-262. doi: 10.2134/jeq2017.09.0358.
9. S. BIBI-TRIKI, G. HUSSON. B. MAUCOURT. S. VUILLEUMIER, C. CARAPITO, **F. BRINGEL#** (2018) N-terminome and proteogenomic analysis of the *Methylobacterium extorquens* DM4 reference strain for dichloromethane utilization. *Journal of Proteomics* pii: S1874-3919(18)30107-6. doi: 10.1016/j.jprot.2018.03.012. PMID: 29567292.
10. **F. BRINGEL**, I. COUEE (2018) Plant-pesticides interactions and the global chloromethane budget. *Trends Plant Sciences* 23 (2), 95-99. Forum article invité par l'éditrice S. C. BRINK. doi: 10.1016/j.tplants.2017.12.001.
11. **F. BRINGEL**, S. VUILLEUMIER (2017) Metabolic regulation: A master role for ribulose 1,5-biphosphate in one-carbon assimilation. *Current Biology* 27 (20): R1127-R1129. Invité par l'éditrice C. COSMA. doi: 10.1016/j.cub.2017.09.003.

12. M. FARHAN UL HAQUE, L. BESAURY, T. NADALIG, **F. BRINGEL**, J. MUTTERER, H. SCHALLER, S. VUILLEUMIER (2017) Correlated production and consumption of chloromethane in the *Arabidopsis thaliana* phyllosphere. *Scientific Reports*. 7(1), 17589. doi: 10.1038/s41598-017-17421-y.
13. P. CHAIGNAUD, B. MAUCOURT, M. WEIMAN, A. ALBERTI, S. KOLB, S. CRUVEILLER, S. VUILLEUMIER, **F. BRINGEL**# (2017) Genomic and transcriptomic analysis of growth-supporting dehalogenation of chlorinated methanes in *Methylobacterium*. *Frontiers in Microbiology* 8:1600. doi: 10.3389/fmicb.2017.01600. eCollection 2017
14. **F. BRINGEL**, C. P. POSTEMA, S. MANGENOT, S. BIBI-TRIKI, P. CHAIGNAUD, M. FARHAN UL HAQUE, C. GRUFFAZ, L. HERMON, Y. LOUHICHI, B. MAUCOURT, E. E. L. MULLER, T. NADALIG, A. LAJUS, Z. ROUY, C. MEDIGUE, V. BARBE, D. B. JANSSEN & S. VUILLEUMIER (2017) Genome sequence of the dichloromethane-degrading strain *Hyphomicrobium* sp. GJ21. *Genome Announcements* 5 (30), e00622-17. doi: 10.1128/genomeA.00622-17
15. K. FRINDTE, M. KALYUZHAYAYA, **F. BRINGEL**, P. DUNFIELD, M. JETTEN, V. KHMELENINA, M. KLOTZ, C. MURRELL, H. OP DEN CAMP, Y. SAKAI, J. SEMRAU, N. SHAPIRO, A. DISPIRITO, L. STEIN, M. SVENNING, Y. TROTSSENKO, S. VUILLEUMIER, T. WOYKE, C. KNIEF (2017) Draft genome sequences of two gammaproteobacterial methanotrophs isolated from rice ecosystems *Genome Announcements* 5, 33e00526-17. doi: 10.1128/genomeA.00526-17
16. A. S. BRADLEY, P.K. SWANSON, E. E. L. MULLER, **F. BRINGEL**, S. M. CARROLL, A. PEARSON, S. VUILLEUMIER, C. J. MARX (2017) Hopanoid-free *Methylobacterium extorquens* DM4 overproduces carotenoids and has widespread growth impairment. *PLoS ONE* 12(3):e0173323. doi: 10.1371/journal.pone.0173323
17. J. K. MICHENER, S. VUILLEUMIER, **F. BRINGEL**, C. J. MARX (2016) Transfer of a catabolic pathway for chloromethane in *Methylobacterium* strains highlights different limitations for growth with chloromethane or with dichloromethane. *Frontiers in Microbiology* 7:1116. doi.org/10.3389/fmicb.2016.01116
18. S. ALIOUA, A. ABDI, I. FHOULA, **F. BRINGEL**, A. BOUDABOUS, I. H. OUZARI (2016) Diversity of vaginal lactic acid bacterial microbiota in 15 Algerian pregnant women with and without bacterial vaginosis by using culture independent method. *Journal of Clinical and Diagnostic Research* 10 (9):DC23-DC27. doi 10.7860/JCDR/2016/21621.8546
19. J.D. FLYNN, H. HIRAYAMA, Y. SAKAI, P.F. DUNFIELD, M.G. KLOTZ, C. KNIEF, H.J. M. OP DEN CAMP, M.S.M. JETTEN, V.N. KHMELENINA, Y.A. TROTSSENKO, J.C. MURRELL, J.D. SEMRAU, M.M. SVENNING, L.Y. STEIN, N. SHAPIRO, T. WOYKE, **F. BRINGEL**, S. VUILLEUMIER, A.A. DISPIRITO, M.G. KALYUZHAYAYA (2016) Draft genomes of gammaproteobacterial methanotrophs isolated from marine ecosystems. *Genome Announcements* 4 (1). pii: e01629-15. doi: 10.1128/genomeA.01629-15
20. P. DUNFIELD, M. KLOTZ, C. KNIEF, H. OP DEN CAMP, M. JETTEN, **F. BRINGEL**, S. VUILLEUMIER, M. SVENNING, N. SHAPIRO, T. WOYKE, Y. TROTSSENKO, L. STEIN, M. KALYUZHAYAYA (2015) Draft genomes of gammaproteobacterial methanotrophs isolated from terrestrial ecosystems. *Genome Announcements*. doi: e00515-15. doi: 10.1128/genomeA.00515-15
21. **F. BRINGEL**#, I. COUEE (2015) Pivotal roles of phyllosphere microorganisms at the interface between plant functioning and atmospheric trace gas dynamics. *Frontiers in Microbiology* 6:486. doi: 10.3389/fmicb.2015.00486
22. C. PENNY, C. GRUFFAZ, T. NADALIG, H. -M. CAUCHIE, S. VUILLEUMIER, **F. BRINGEL**# (2015) Tetrachloromethane-degrading bacterial enrichment cultures and isolates from a contaminated aquifer. *Microorganisms* 3, 327-343. doi: 10.3390/microorganisms3030327, PMID:27682092
23. C.E. SHARP, A.V. SMIRNOVA, M.G. KALYUZHAYAYA, **F. BRINGEL**, H. HIRAYAMA, M.S. JETTEN, V.N. KHMELENINA, M.G. KLOTZ, C. KNIEF, N. KYRPIDES, H.J. OP DEN CAMP, A.S. RESHETNIKOV, Y. SAKAI, N. SHAPIRO, Y.A.

- TROTSSENKO, S. VUILLEUMIER, T. WOYKE, P.F. DUNFIELD (2015) Draft genome sequence of the moderately halophilic methanotroph *Methylohalobius crimeensis* strain 10Ki. *Genome Announcements* e00644-15. doi: 10.1128/genomeA.00644-15
24. J.K. MICHENER, S. VUILLEUMIER, F. BRINGEL, C.J. MARX (2014) Phylogeny poorly predicts the utility of a challenging horizontally-transferred gene in *Methylobacterium* strains. *Journal of Bacteriology* 196 (11), 2101-2107. doi: 10.1128/JB.00034
  25. C. GRUFFAZ, E.E.L. MULLER, Y. LOUHICHI-JELAIL, Y.R. NELLI, G. GUICHARD, F. BRINGEL# (2014) Genes of the N-methylglutamate pathway are essential for growth of *Methylobacterium extorquens* DM4 with monomethylamine. *Applied and Environmental Microbiology* 80 (11), 3541-3450. doi: 10.1128/AEM.04160-13
  26. A.M. BOGUTA, F. BRINGEL, J. MARTINUSSEN, P.R. JENSEN (2014) Screening of lactic acid bacteria for their potential as microbial cell factories for bioconversion of lignocellulosic feedstocks. *Microbial Cell Factories* 13 (1), 97. PMID: 24997803
  27. T. NADALIG, M. GREULE, F. BRINGEL, F. KEPPLER, S. VUILLEUMIER (2014) Probing the diversity of chloromethane-degrading bacteria by comparative genomics and isotopic fractionation. *Frontiers in Microbiology* 5: 523. doi: 10.3389/fmicb.2014.00523
  28. J.K. MICHENER, A.A. CAMARGO NEVES, S. VUILLEUMIER, F. BRINGEL, C.J. MARX (2014) Effective use of a horizontally-transferred pathway for dichloromethane catabolism requires post-transfer refinement. *eLife*. doi: 10.7554/eLife.04279
  29. S. ROSELLI, T. NADALIG, S. VUILLEUMIER, F. BRINGEL (2013) Plasmid pCMU01 features gene redundancy for vitamin B<sub>12</sub>- and tetrahydrofolate-dependent chloromethane metabolism in *Methylobacterium extorquens* CM4: a proteomic and bioinformatics study. *PLoS ONE* 8(4):e56598. doi: 10.1371/journal.pone.0056598, PMID: 23593113
  30. K.D. KITS, M. KALYUZHNYAYA, M. KLOTZ, M. JETTEN, H. OP DEN CAMP, S. VUILLEUMIER, F. BRINGEL, A. DISPIRITO, C. MURRELL, D. BRUCE, J.-F. CHENG, A. COPELAND, L. GOODWIN, L. HAUSER, A. LAJUS, M. LAND, A. LAPIDUS, S. LUCAS, C. MEDIGUE, S. PITLUCK, T. WOYKE, A. ZEYUN, L. STEIN (2013) Genome sequence of the obligate gammaproteobacterial methanotroph *Methylomicrobium album* strain BG8. *Genome Announcements* 1(2):e0017013. doi: 10.1128/genomeA.00170-13.
  31. T. NADALIG, M. GREULE, F. BRINGEL, S. VUILLEUMIER, F. KEPPLER (2013) Hydrogen and carbon isotope fractionation during degradation of chloromethane by methylotrophic bacteria. *MicrobiologyOpen*. doi: 10.1002/mbo3.124. PMID: 24019296
  32. M. FAHRAN UL HAQUE, T. NADALIG, F. BRINGEL, H. SCHALLER, S. VUILLEUMIER (2013) Fluorescence-based bacterial bioreporter for specific detection of methyl halide emissions in the environment. *Applied and Environmental Microbiology* 79 (21), 6561-6567, PMID: 23956392, doi: 10.1128/AEM.01738-13
  33. V.N. KHEMELENINA, D. BECK, C. MUNK, K. DAVENPORT, H. DALIGAULT, T. ERKKILA, L. GOODWIN, W.GU, C.-C. LO, M. SCHOLZ, H. TESHIMA, Y. XU, P. CHAIN, F. BRINGEL, S. VUILLEUMIER, A. DISPIRITO, P. DUNFIELD, M.S.M. JETTEN, M.G. KLOTZ, C. KNIEF, J.C. MURRELL, H.J.M. OP DEN CAMP, Y. SAKAI, J. SEMRAU, M. SVENNING, L.Y. STEIN, Y.A. TROTSSENKO, M.G. KALYUZHNYAYA (2013) Draft genome sequence of *Methylomicrobium buryatense* 5G, a haloalkaline-tolerant methanotrophic bacterium. *Genome Announcements* 1(4):e00053-13. doi: 10.1128/genomeA.00053-13.
  34. M. KALYUZHNYAYA, S. YANG, O. ROZOVA, N. SMALLEY, J. CLUBB, A. LAMB, G.A. NAGANA GOWDA, D. RAFTERY, Y. FU, F. BRINGEL, S. VUILLEUMIER, D. BECK, Y. TROTSSENKO, V. KHEMELENINA, M. LIDSTROM (2013) Highly

efficient methane biocatalysis revealed in methanotrophic bacterium. *Nature Communications* 4 (2785), 1-7. doi: 10.1038/ncomms3785.

35. S. VUILLEUMIER, V.N. KHMELENINA, **F. BRINGEL**, A.S. RESHETNIKOV, A. LAJUS, S. MANGENOT, Z. ROUY, H. J. M. OP DEN CAMP, M. S. M. JETTEN, A.A. DISPIRITO, P. DUNFIELD, M.G. KLOTZ, J.D. SEMRAU, L.Y. STEIN, V. BARBE, C. MÉDIGUE, Y.A. TROTSENKO & M.G. KALYUZHNYAYA (2012) Genome sequence of the haloalkaliphilic methanotrophic bacterium *Methylomicrobium alcaliphilum* 20Z. *Journal of Bacteriology* 194 (2), 551-552, PMID: 22207753
36. E. HAMON, P. HORVATOVICH, M. BISCH, **F. BRINGEL**, E. MARCHIONI, D. AOUDE-WERNER, S. ENNAHAR (2012) Investigation of biomarkers of bile tolerance in *Lactobacillus casei* using comparative proteomics. *Journal of Proteome Research*, 11(1), 109-118, PMID: 22040141
37. C.J. MARX, **F. BRINGEL**, L. CHISTOSERDOVA, L. MOULIN, M.F. UL HAQUE, D.E. FLEISCHMAN, C. GRUFFAZ, P. JOURAND, C. KNIEF, M.C. LEE, E.E.M. MULLER, T. NADALIG, R. PEYRAUD, S. ROSELLI, L. RUSS, L. A. GOODWIN, N. IVANOVA, N. KYRPIDES, A. LAJUS, M.L. LAND, C. MEDIGUE, N. MIKHAILOVA, M. NOLAN, T. WOYKE, S. STOLYAR, J.A. VORHOLT, S. VUILLEUMIER (2012) Complete genome sequences of six strains of the genus *Methylobacterium*. *Journal of Bacteriology* 194 (17), 4746-4748, PMID: 22887658
38. E.E.L. MULLER, **F. BRINGEL**, S. VUILLEUMIER (2011) Dichloromethane-degrading bacteria in the genomic age. Edited by P. BONIN & D. FAURE. Special issue on environmental microbiology. *Research in Microbiology* 162 (9), 869-876, PMID: 2128848
39. L.Y. STEIN, **F. BRINGEL**, A.A. DISPIRITO, S. HAN, M.S. JETTEN, M.G. KALYUZHNYAYA, K.D. KITS, M.G. KLOTZ, H.J. OP DEN CAMP, J.D. SEMRAU, S. VUILLEUMIER, D. BRUCE, J.-F. CHENG, K.W. DAVENPORT, L. GOODWIN, S. HAN, L. HAUSER A. LAJUS, M.L. LAND, A. LAPIDUS, S. LUCAS, C. MEDIGUE, S. PITLUCK, T. WOYKE (2011) Genome sequence of the methanotrophic Alphaproteobacterium, *Methylocystis* sp. Rockwell (ATCC 49242). *Journal of Bacteriology* 193 (10), 2668-2669, PMID: 21441518 doi: 10.1128/JB.00278-11
40. E. HAMON, P. HORVATOVICH, E. IZQUIERDO, **F. BRINGEL**, E. MARCHIONI, D. AOUDE-WERNER, S. ENNAHAR (2011) Comparative proteomic analysis of *Lactobacillus plantarum* for the identification of key proteins in bile tolerance. *BMC Microbiology* 11 (63), PMID: 21447177
41. E.E.L. MULLER, E. HOURCADE, Y. LOUHICHI-JELAIL, P. HAMMANN, S. VUILLEUMIER, **F. BRINGEL** (2011) Functional genomics of dichloromethane utilisation in *Methylobacterium extorquens* DM4. *Environmental Microbiology* 13 (9), 2518-2535, PMID: 21854516.
42. T. NADALIG, M.F. UI HAQUE, S. ROSELLI, H. SCHALLER, **F. BRINGEL**, S. VUILLEUMIER (2011) Detection and isolation of chloromethane-degrading bacteria from the *Arabidopsis thaliana* phyllosphere, and characterization of chloromethane utilisation genes. *FEMS Microbiology Ecology* 77 (2), 438-448, PMID: 21545604, doi: 10.1111/j.1574-6941.2011.01125.x.
43. W. KITTICHOTIRAT, N.M. GOOD, R. HALL, **F. BRINGEL**, A. LAJUS, C. MEDIGUE, D. BECK, S. VUILLEUMIER, R. BUMGARNER, M.G. KALYUZHNYAYA (2011) Genome sequence of *Methyloversatilis universalis* FAM5<sup>T</sup>, a methylotrophic representative of the order rhodocyclales. *Journal of Bacteriology* 193 (17), 4541-4542, PMID: 21725020
44. S. VUILLEUMIER, T. NADALIG, M.F. UL HAQUE, G. MAGDELENAT, A. LAJUS, S. ROSELLI, E.E.M. MULLER, C. GRUFFAZ, V. BARBE, C. MÉDIGUE, **F. BRINGEL** (2011) Complete genome sequence of the chloromethane-degrading strain *Hyphomicrobium* sp. MC1. *Journal of Bacteriology* 193 (18), 5035-5036, PMID: 21868803
45. M.M. SVENNING, A. GRETHE HESTNES, I. WARTIAINEN, L.Y. STEIN, M.G. KLOTZ, M.G. KALYUZHNYAYA, A. SPANG, S. VUILLEUMIER, **F. BRINGEL**, A. LAJUS, C. MEDIGUE, D.C. BRUCE, J-F CHENG, L. GOODWIN, N. IVANOVA, J. HAN,

- S. HAN, L. HAUSER, B. HELD, M.L. LAND, A. LAPIDUS, S. LUCAS, M. NOLAN, S. PITLUCK, T. WOYKE (2011) Genome Sequence of the arctic methanotroph *Methylobacter tundripaludum* SV96. *Journal of Bacteriology* 193 (22), 6418-6419, PMID: 21725021
46. C. PENNY, S. VUILLEUMIER, F. BRINGEL# (2010) Microbial degradation of tetrachloromethane : mechanisms and perspectives for bioremediation. *FEMS Microbiology Ecology* 74 (2), 257-275, PMID: 20695893
47. I. COUEE, F. BRINGEL (2010) Expanding importance of mRNA expression in understanding stress and stress responses. *Journal of Theoretical Biology* 266 (3), 479-482, PMID: 20643149
48. L.Y. STEIN, S. YOON, J.D. SEMRAU, A.A. DISPIRITO, A. CROMBIE, J.C. MURRELL, S. VUILLEUMIER, M.G. KALYUZHNYA, H.J. OP DEN CAMP, F. BRINGEL, D. BRUCE, J.-F. CHENG, A. COPELAND, L. GOODWIN, S. HAN, L. HAUSER, M.S. JETTEN, A. LAJUS, M.L. LAND, A. LAPIDUS, S. LUCAS, C. MEDIGUE, S. PITLUCK, T. WOYKE, A. ZEYTUN, M.G. KLOTZ (2010) Genome sequence of the obligate methanotroph, *Methylosinus trichosporium* strain OB3b. *Journal of Bacteriology* 192 (24), 6497-6498, PMID: 20952571
49. C. PENNY, T. NADALIG, M. ALIOUA, C. GRUFFAZ, S. VUILLEUMIER, F. BRINGEL# (2010) Coupling of denaturing high-performance liquid length chromatography and terminal restriction fragment length polymorphism with precise fragment size calling for microbial community profiling and characterization. *Applied and Environmental Microbiology* 76 (3), 648-651, PMID: 19948846
50. S. VUILLEUMIER, L. CHISTOSERDOVA, M.-C. LEE, F. BRINGEL, A. LAJUS, Y. ZHOU, B. GOURION, V. BARBE, J. CHANG, S. CRUVEILLIER, C. DOSSAT, W. GILLET, C. GRUFFAZ, E. HAUGEN, E. HOURCADE, R. LEVY, S. MANGENOT, E. MULLER, T. NADALIG, M. PAGNI, C. PENNY, R. PEYRAUD, D.G. ROBINSON, D. ROCHE, Z. ROUY, C. SAENAMPECHEK, G. SALVIGNOL, D. VALLENET, Z. WU, C.J. MARX, J. VORHOLT, M.V. OLSON, K. RAJINDER, J. WEISSENBACH, C. MEDIGUE, M.E. LIDSTROM (2009) *Methylobacterium* genome sequences: a reference blueprint to investigate microbial metabolism of C<sub>1</sub> compounds from natural and industrial sources. *PLoS ONE* 4 (5):e5584, PMID: 19440302
51. S. MAINGUET, B. GAKIERE, A. MAJIRA, S. PELLETIER, F. BRINGEL, F. GUERARD, M. CABOCHE, R. BERTHOME, J.P. RENO (2009) Uracil salvage is necessary for early *Arabidopsis* development. *The Plant Journal* 60 (2), 280-291, PMID: 19563437
52. F. BRINGEL, S. VUILLEUMIER, F. ARSÈNE-PLOETZE (2008) Low carbamoyl phosphate pools may drive *Lactobacillus plantarum* CO<sub>2</sub>-dependent growth phenotype. *Journal of Molecular Microbiology and Biotechnology* 14 (1-3), 22-30, PMID: 17957107
53. F. BRINGEL#, P. HAMMAN, V. KUGLER, F. ARSÈNE-PLOETZE (2008) *Lactobacillus plantarum* response to inorganic carbon concentrations: PyrR<sub>2</sub>-dependent and -independent transcription regulation of genes involved in arginine and nucleotide metabolism. *Microbiology* 154, 2629-2640, PMID: 18757797
54. F. ARSÈNE-PLOETZE, V. KUGLER, J. MARTINUSSEN, F. BRINGEL# (2006) Expression of the *pyr* operon of *Lactobacillus plantarum* is regulated by inorganic carbon availability through a second regulator, PyrR<sub>2</sub>, homologous to the pyrimidine-dependent regulator PyrR<sub>1</sub>. *Journal of Bacteriology* 188 (24), 8607-8616, PMID: 17041052
55. T. PETROVIC, M. NIKSIC, F. BRINGEL (2006) Strain typing with *ISLp1* in lactobacilli. *FEMS Microbiology Letters* 255, 1-10, PMID: 16436055
56. F. ARSÈNE-PLOETZE, H. NICOLOFF, B. KAMMERER, J. MARTINUSSEN, F. BRINGEL# (2006) Uracil salvage pathway in *Lactobacillus plantarum*: transcription and genetic studies. *Journal of Bacteriology* 188 (13), 4777-4786, PMID: 16788187

57. **F. BRINGEL**, A. CASTIONI, D. K. OLUKOYA, G. E. FELIS, S. TORRIANI & F. DELLAGLIO (2005) *Lactobacillus plantarum* subsp. *argentoratensis* subsp. nov., isolated from vegetable matrices. *International Journal of Systematic and Evolutionary Microbiology* 55 (Pt 4), 1629-1634, PMID: 16014493
58. H. NICOLOFF, A. ELAGÖZ, F. ARSÈNE-PLOETZE, B. KAMMERER, J. MARTINUSSEN, **F. BRINGEL** (2005) Repression of the *pyr* operon in *Lactobacillus plantarum* prevents its ability to grow at low carbon dioxide levels. *Journal of Bacteriology* 187 (6), 2093-2104, PMID: 1574395
59. D. MOLENAAR, **F. BRINGEL**, F.H. SCHUREN, W.M. DE VOS, R.J. SIEZEN, M. KLEEREBEZEM (2005) Exploring *Lactobacillus plantarum* diversity using microarrays. *Journal of Bacteriology* 187 (17), 6119-6127, PMID: 16109953
60. F. ARSÈNE-PLOETZE, H. NICOLOFF, **F. BRINGEL** (2005) *Lactobacillus plantarum ccl* gene is non-essential, arginine-repressed and codes for a conserved protein in Firmicutes. *Archives of Microbiology* 183 (5), 307-316, PMID: 15864550
61. H. NICOLOFF, F. ARSÈNE-PLOETZE, C. MALANDAIN, M. KLEEREBEZEM, **F. BRINGEL** (2004) Two arginine repressors regulate arginine biosynthesis in *Lactobacillus plantarum*. *Journal of Bacteriology* 186 (18), 6059-6069, PMID: 15342575
62. **F. BRINGEL**, J. C HUBERT (2003) Extent of genetic lesions of the arginine and pyrimidine biosynthetic pathways in *Lactobacillus plantarum*, *L. paraplantarum*, *L. pentosus* and *L. casei*: prevalence of CO<sub>2</sub>-dependent auxotrophs and characterization of deficient *arg* genes in *L. plantarum*. *Applied and Environmental Microbiology* 69 (5), 2674-2683, PMID: 12732536
63. H. NICOLOFF, **F. BRINGEL** (2003) IS*Lpl1* is a functional IS30-related insertion element in *Lactobacillus plantarum* also found in other lactic acid bacteria. *Applied and Environmental Microbiology* 69 (10), 6032-6040, PMID: 14532059
64. **F. BRINGEL**, P. QUÉNÉE, P. TAILLIEZ (2001) Polyphasic investigation of the diversity within *Lactobacillus plantarum* related strains revealed two *L. plantarum* subgroups. *Systematic and Applied Microbiology* 24, 561-571, PMID: 11876364
65. H. NICOLOFF, J. C. HUBERT, **F. BRINGEL** (2000) In *Lactobacillus plantarum*, carbamoyl phosphate is synthesized by two carbamoyl-phosphate synthetases (CPS): carbon dioxide differentiates the arginine-repressed from the pyrimidine-regulated CPS. *Journal of Bacteriology* 182 (12), 3416-3422, PMID: 10852872
66. **F. BRINGEL**, L. FREY, S. BOIVIN, J. C HUBERT (1997) Arginine biosynthesis and regulation in *Lactobacillus plantarum*: the *carA* gene and the *argCJBDF* cluster are divergently transcribed. *Journal of Bacteriology* 179 (8), 2697-2706, PMID: 909806
67. **F. BRINGEL**, M.-C. CURK, J.C HUBERT (1996) Characterization of Lactobacilli by Southern-type hybridization with a *Lactobacillus plantarum pyrFDE* probe. *International Journal of Systematic Bacteriology* 46 (2), 588-594, PMID: 8934911
68. M.-C. CURK, J.C. HUBERT, **F. BRINGEL** (1996) *Lactobacillus paraplantarum* sp. nov., a new species related to *Lactobacillus plantarum*. *International Journal of Systematic Bacteriology* 46 (2), 595-598, PMID: 15551474
69. S. ENNAHAR, D. AOUBE-WERNER, O. SOROKINE, A. VAN DORSSELAER, **F. BRINGEL**, J.C. HUBERT, C. HASSELMANN (1996) Production of pediocin ACh by *Lactobacillus plantarum* WHE 92 isolated from cheese. *Applied and Environmental Microbiology* 62 (12), 4381-4387, PMID: 8953710

70. J.R. SCOTT, **F. BRINGEL**, D. MARRA, G.L. VAN ALSTINE, C.K. RUDY (1994) Conjugative transposition of Tn916: preferred targets and evidence for conjugative transfer of a single strand, and for a double-stranded circular intermediate. *Molecular Microbiology* 11 (6), 1099-1108, PMID: 8022279
71. A. PANDEY, **F. BRINGEL**, J. M. MEYER (1994) Iron requirement and search for siderophores in lactic acid bacteria. *Applied Microbiology and Biotechnology* 40 (5), 735-739, DOI: 10.1007/BF00173337
72. **F. BRINGEL**, G.L. VAN ALSTINE, J.R. SCOTT (1992) Conjugative transposition of Tn916: the transposon *int* gene is required only in the donor. *Journal of Bacteriology* 174 (12), 4036-4041, PMID: 1317846
73. **F. BRINGEL**, G.L. VAN ALSTINE, J.R. SCOTT (1992) Transfer of Tn916 between *Lactococcus lactis* subspecies *lactis* is non-transpositional: evidence for a chromosomal fertility function in strain MG1363. *Journal of Bacteriology* 174 (18), 5840-5847, PMID: 1325966
74. **F. BRINGEL**, G.L. VAN ALSTINE, J.R. SCOTT (1991) A host factor absent from *Lactococcus lactis* subspecies *lactis* MG1363 is required for conjugative transposition. *Molecular Microbiology* 5 (12), 2983-2993, PMID: 1667220
75. **F. BRINGEL**, J.C HUBERT (1990) Optimized transformation by electroporation of *Lactobacillus plantarum* strains with plasmid vectors. *Applied Microbiology and Biotechnology* 33 (6), 664-670, DOI: 10.1007/BF00604934
76. A. BOUIA, **F. BRINGEL**, L. FREY, A. BELARBI, A. GUYONVARCH, B. KAMMERER, J.C. HUBERT (1990) Cloning and structure of the *pyrE* gene of *Lactobacillus plantarum* CCM 1904. *FEMS Microbiology Letters* 69, 233-238, PMID: 2210335
77. A. BOUIA, **F. BRINGEL**, L. FREY, B. KAMMERER, A. BELARBI, A. GUYONVARCH, J. C HUBERT (1989) Structural organization of pLP1, a cryptic plasmid from *Lactobacillus plantarum* CCM 1904. *Plasmid* 22 (3), 185-192, PMID: 2517345
78. **F. BRINGEL**, L. FREY, J.C HUBERT (1989) Characterization, cloning, curing, and distribution in lactic acid bacteria of pLP1, a plasmid from *Lactobacillus plantarum* CCM 1904 and its use in shuttle vector construction. *Plasmid* 22 (3), 193-202, PMID: 2699038

## 2. Book Chapters

79. **F. BRINGEL**<sup>#</sup>, L. BESAURY, P. AMATO, E. KRÖBER, S. KOLB, F. KEPPLER, S. VUILLEUMIER, T. NADALIG (2019) Methylophs and methyloph populations for chloromethane degradation. *Current Issues In Molecular Biology*. CHAP. 8 149–72. doi: 10.21775/9781912530045.08
80. **F. BRINGEL**<sup>#</sup>, I. COUEE (2015) Pivotal roles of phyllosphere microorganisms at the interface between plant functioning and atmospheric trace gas dynamics. **eBook** "The impact of microorganisms on consumption of atmospheric trace gases" editors S. KOLB, M.A. HORN, C. KNIEF & C. MURRELL. *Frontiers in Microbiology* 6:486. doi: 10.3389/fmicb.2015.00486
81. **F. BRINGEL**<sup>#</sup>, I. COUEE (2015) Les microbiomes de la phyllosphère. In : La métagénomique : développements actuels et futures perspectives, Editors M.F CHAMPOMIER-VERGES & M. ZAGOREC, Editions Quae, Collection Savoir faire, Chapitre 8, 97-108. ISBN 9782759222933.



82. T. NADALIG, M. GREULE, **F. BRINGEL**, F. KEPPLER, S. VUILLEUMIER (2014) Probing th diversity of chloromethane-degrading bacteria by comparative genomics and isotopic fractionation. eBook "The impact of microorganisms on consumption of atmospheric trace gases" editors S. KOLB, M.A. HORN, C. KNIEF, C. MURRELL. *Frontiers in Microbiology* 5: 523. doi: 10.3389/fmicb.2014.00523



83. E.E.L. MULLER, **F. BRINGEL**, S. VUILLEUMIER (2011) Dichloromethane-degrading bacteria in the genomic age. Edited by P. BONIN & D. FAURE. Special issue on environmental microbiology. *Research in Microbiology* 162 (9), 869-876, PMID: 21288483

84. G. IMFELD, **F. BRINGEL**, S. VUILLEUMIER (2011) Bacterial tolerance in contaminated soils: potential of the PICT approach in microbial ecology. In: Tolerance to Environmental Contaminants (C. AMIARD-TRIQUET, P.S. RAINBOW, M. ROMEO), CRC Press, Boca Raton. Chapitre 14, p335-364

