

## Publications

Hassan MIA, Keller M, Hillger M, Binder U, Reuter S, Herold K, Telagathoti A, Dahse HM, Wicht S, Trinks N, Nietzsche S, Deckert-Gaudig T, Deckert V, Mrowka R, Terpitz U, Saluz HP, Voigt K (2021) The impact of episporic modification of *Lichtheimia corymbifera* on virulence and interaction with phagocytes. *Comput Struct Biotechnol J* 19, 880-896.

Hermenau R, Ishida K, Gama S, Hoffmann B, Pfeifer-Leeg M, Plass W, Mohr JF, Wichard T, Saluz HP, Hertweck C (2018) Gramibactin is a bacterial siderophore with a diazeniumdiolate ligand system. *Nat Chem Biol* 14(9), 841-843.

Bartels B, Kulkarni P, Böcker S, Saluz HP, Svatos A (2017) Mapping metabolites from rough terrain: laser ablation electrospray ionization on non-flat samples. *RSC Adv* 7, 9045-9050.

Hoffmann B<sup>\*</sup>, Svensson C-M<sup>\*</sup>, Straßburger M, Gebser B, Irmeler IM, Kamradt T, Saluz HP, Figge MT, <sup>\*</sup> authors contributed equally (2017) Automated quantification of early bone alterations and pathological bone turnover in experimental arthritis by *in vivo* PET/CT imaging. *Sci Rep* 7, 2217.

Pohlers S, Martin R, Krüger T, Hellwig D, Hänel F, Kniemeyer O, Saluz HP, Van Dijck, Ernst JF, Brakhage A, Mühlischlegel FA, Kurzai O (2017) Lipid signaling via Pkh1/2 regulates fungal CO<sub>2</sub> sensing through the kinase Sch9. *mBio* 8(1), e02211-16.

Steube A, Schenk T, Tretyakov A, Saluz HP (2017) High-intensity UV laser CHIP-seq for the study of protein-DNA interactions in living cells. *Nat Commun* 8(1), 1303.

Svensson C-M<sup>\*</sup>, Hoffmann B<sup>\*</sup>, Irmeler I, Straßburger M, Figge MT<sup>\*\*</sup>, Saluz HP<sup>\*\*</sup>; <sup>\*</sup> authors contributed equally; <sup>\*\*</sup> corresponding authors, authors contributed equally (2017) Quantification of arthritic bone degradation by analysis of 3D micro-computed tomography data. *Sci Rep* 7, 44434.

Beder T, Scheven MT, Praetzs D, Westermann M, Saluz HP (2016) Purification of infectious and non-infectious chlamydial particles using iodixanol for density gradient preparation. *J Microbiol Methods* 128, 20-23.

Hänel F, Saluz HP (2016) Chlamydiae: Polymorphic membrane proteins make the difference. *Virulence* 7(1), 3-4. (Review)

Hennersdorf P, Kleinertz S, Theisen S, Abdul-Aziz MA, Mrotzek G, Palm HW, Saluz HP (2016) Microbial diversity and parasitic load in tropical fish of different environmental conditions *PLOS ONE* 11(3), e0151594.

Hennersdorf P, Mrotzek G, Abdul-Aziz MA, Saluz HP (2016) Metagenomic analysis between free-living and cultured *Epinephelus fuscoguttatus* under different environmental conditions in Indonesian waters *Mar Pollut Bull* 110(2), 726-734.

Mohebbi S, Erfurth F, Hennersdorf P, Brakhage AA, Saluz HP (2016) Hyperspectral imaging using intracellular spies: Quantitative real-time measurement of intracellular parameters *in vivo* during interaction of the pathogenic fungus *Aspergillus fumigatus* with human monocytes *PLOS ONE* 11(10), e0163505.

Oetama VS, Hennersdorf P, Abdul-Aziz MA, Mrotzek G, Haryanti H, Saluz HP (2016) Microbiome analysis and detection of pathogenic bacteria of *Penaeus monodon* from Jakarta Bay and Bali

*Mar Pollut Bull* 110(2), 718-725.

Walther E, Xu Z, Richter M, Kirchmair J, Grienke U, Rollinger JM, Krumbholz A, Saluz HP, Pfister W, Sauerbrei A, Schmidtke M (2016) Dual acting neuraminidase inhibitors open new opportunities to disrupt the lethal synergism between *Streptococcus pneumoniae* and influenza virus *Front Microbiol* 7, 375.

Kästner J, Saluz HP, Hänel F (2015) Identification of in vivo-induced bacterial protein antigens during calf infection with *Chlamydia psittaci* *Int J Med Microbiol* 305(3), 310-321.

Krügel H, Klimina KM, Mrotzek G, Tretyakov A, Schöfl G, Saluz HP, Brantl S, Poluektova EU, Danilenko VN (2015) Expression of the toxin-antitoxin genes *yefM*, *yoeB* in human *Lactobacillus rhamnosus* isolates *J Basic Microbiol* 55(8), 982-991.

Muslihudeen AA, Schöfl G, Mrotzek G, Haryanti H, Sugama K, Saluz HP (2015) Population structure of the Indonesian giant tiger shrimp *Penaeus monodon*: a window into evolutionary similarities between paralogous mitochondrial DNA sequences and their genomes. *Ecology and Evolution* 5(17), 3570-3584.

Walther E, Richter M, Xu Z, Kramer C, von Grafenstein S, Kirchmair J, Grienke U, Rollinger JM, Liedl KR, Slevogt H, Sauerbrei A, Saluz HP, Pfister W, Schmidtke M (2015) Antipneumococcal activity of neuramidase inhibiting artocarpin *Int J Med Microbiol* 305, 289-297.

Amin S, Thywissen A, Heinekamp T, Saluz HP, Brakhage AA (2014) Melanin dependent survival of *Aspergillus fumigatus* conidia in lung epithelial cells. *Int J Med Microbiol* 304(5-6), 626-636.

Böcker S, Heurich A, Franke C, Monajembashi S, Sachse K, Saluz HP, Hänel F (2014) *Chlamydia psittaci* inclusion membrane protein IncB associates with host protein Snapin. *Int J Med Microbiol* 304(5-6), 542-553.

Fatangare A, Gebhardt P, Saluz H, Svatoš A (2014) Comparing 2-[(18)F]fluoro-2-deoxy-D-glucose and [(68)Ga]gallium-citrate translocation in *Arabidopsis thaliana*. *Nucl Med Biol* 41(9), 737-743.

Groot AT, Schöfl G, Inglis O, Donnerhacke S, Classen A, Schmalz A, Santangelo RG, Emerson J, Gould F, Schal C, Heckel DG (2014) Within-population variability in a moth sex pheromone blend: genetic basis and behavioural consequences. *Proc Biol Sci* 281(1779), 20133054.

Irmeler IM, Gebhardt P, Hoffmann B, Opfermann T, Figge MT, Saluz HP, Kamradt T (2014) 18 F-Fluoride positron emission tomography/computed tomography for noninvasive in vivo quantification of pathophysiological bone metabolism in experimental murine arthritis. *Arthritis Res Ther* 16(4), R155.

Knittler MR, Berndt A, Böcker S, Dutow P, Hänel F, Heuer D, Kägebein D, Klos A, Koch S, Liebler-Tenorio E, Ostermann C, Reinhold P, Saluz HP, Schöfl G, Sehnert P, Sachse K (2014) *Chlamydia psittaci*: New insights into genomic diversity, clinical pathology, host-pathogen interaction and anti-bacterial immunity. *Int J Med Microbiol* 304(7), 877-893.

Schnerwitzki D, Perner B, Hoppe B, Pietsch S, Mehringer R, Hänel F, Englert C (2014) Alternative splicing of Wilms tumor suppressor 1 (*Wt1*) exon 4 results in protein isoforms with different functions. *Dev Biol* 393, 24-32.

Bleicher A, Schöfl G, Rodicio Mdel R, Saluz HP (2013) The plasmidome of a *Salmonella enterica* serovar Derby isolated from pork meat. *Plasmid* 69(3), 202-210.

Gebhardt P, Würbach L, Heidrich A, Heinrich L, Walther M, Opfermann T, Sørensen B, Saluz HP (2013) Dynamic behaviour of selected PET tracers in embryonated chicken eggs. *Rev Esp Med Nucl Imagen Mol.* 32(6), 371-377.

Heidrich A, Schmidt J, Zimmermann J, Saluz HP (2013) Automated segmentation and object classification of CT images: Application to *in vivo* molecular imaging of avian embryos. *Int J Biomed Imaging* 2013, 508474-508474.

Klimina KM, Kjasova DK, Poluektova EU, Krügel H, Leuschner Y, Saluz HP, Danilenko VN (2013) Identification and characterization of toxin-antitoxin systems in strains of *Lactobacillus rhamnosus* isolated from humans. *Anaerobe* 22, 82-89.

Rassmann A, Martin U, Saluz HP, Peter S, Munder T, Henke A (2013) Identification of gene expression profiles in HeLa cells and HepG2 cells infected with Coxsackievirus B3. *J Virol Methods* 187(1), 190-194.

Braukmann M, Sachse K, Jacobsen ID, Westermann M, Menge C, Saluz HP, Berndt A (2012) Distinct intensity of host-pathogen interactions in *Chlamydia psittaci*- and *Chlamydia abortus*-infected chicken embryos. *Infect Immun* 80(9), 2976-2988.

Kuhnert A, Schmidt U, Monajembashi S, Franke C, Schlott B, Grosse F, Greulich KO, Saluz HP, Hänel F (2012) Proteomic identification of PSF and p54(nrb) as TopBP1-interacting proteins. *J Cell Biochem* 113(5), 1744-1753.

Ohlenschläger O, Kuhnert A, Schneider A, Haumann S, Bellstedt P, Keller H, Saluz HP, Hortschansky P, Hänel F, Grosse F, Görlach M, Pospiech H (2012) The N-terminus of the human RecQL4 helicase is a homeodomain-like DNA interaction motif. *Nucleic Acids Res* 40(17), 8309-8324.

Voigt A, Schöfl G, Saluz HP (2012) The *Chlamydia psittaci* genome: a comparative analysis of intracellular pathogens. *PLOS One* 7(4), e35097-e35097.

Würbach L, Heidrich A, Opfermann T, Gebhardt P, Saluz HP (2012) Insights into bone metabolism of avian embryos *in ovo* via 3D and 4D 18F-fluoride positron emission tomography. *Mol Imaging Biol* 14(6), 688-698.

Borth N, Litsche K, Franke C, Sachse K, Saluz HP, Hänel F (2011) Functional interaction between type III-secreted protein IncA of *Chlamydomphila psittaci* and human G3BP1. *PLOS One* 6(1), e16692-e16692.

Fendrich V, Schneider R, Maitra A, Jacobsen ID, Opfermann T, Bartsch DK (2011) Detection of precursor lesions of pancreatic adenocarcinoma in PET-CT in a genetically engineered mouse model of pancreatic cancer. *Neoplasia* 13(2), 180-186.

Groot AT, Classen A, Inglis O, Blanco CA, López J, Téran Vargas A, Schal C, Heckel DG, Schöfl G (2011) Genetic differentiation across North America in the generalist moth *Heliothis virescens* and the specialist *H. subflexa*. *Mol Ecol* 20(13), 2676-2692.

Heidrich A, Würbach L, Opfermann T, Saluz HP (2011) Motion-artifact-free *in vivo* imaging

utilizing narcotized avian embryos *in ovo*. *Mol Imaging Biol* 13(2), 208-214.

Henniges-Janssen K, Schöfl G, Reineke A, Heckel DG, Groot AT (2011) Oviposition of diamondback moth in the presence and absence of a novel host plant. *Bull Entomol Res* 101(1), 99-105.

Kreutzer MF, Kage H, Gebhardt P, Wackler B, Saluz HP, Hoffmeister D, Nett M (2011) Biosynthesis of a complex yersiniabactin-like natural product via the *mic* locus in phytopathogen *Ralstonia solanacearum*. *Appl Environ Microbiol* 77, 6117-6124.

Loxdale HD, Massonnet B, Schöfl G, Weisser WW (2011) Evidence for a quiet revolution: seasonal variation in colonies of the specialist tansy aphid, *Macrosiphoniella tanacetaria* (Kaltenbach) (Hemiptera: Aphididae) studied using microsatellite markers. *Bull Entomol Res* 101(2), 221-239.

Samelis J, Bleicher A, Delbès-Paus C, Kakouri A, Neuhaus K, Montel MC (2011) FTIR-based polyphasic identification of lactic acid bacteria isolated from traditional Greek Graviera cheese. *Food Microbiol* 28(1), 76-83.

Schöfl G, Dill A, Heckel DG, Groot AT (2011) Allochronic separation versus mate choice: nonrandom patterns of mating between fall armyworm host strains. *Am Nat* 177(4), 470-485.

Schöfl G, Voigt A, Litsche K, Sachse K, Saluz HP (2011) Complete genome sequences of four mammalian isolates of *Chlamydophila psittaci*. *J Bacteriol* 193(16), 4258-4258.

Voigt A, Schöfl G, Heidrich A, Sachse K, Saluz HP (2011) Full-length de novo sequence of the *Chlamydophila psittaci* type strain, 6BC. *J Bacteriol* 193(10), 2662-2663.

Volling K, Thywissen A, Brakhage AA, Saluz HP (2011) Phagocytosis of melanized *Aspergillus conidia* by macrophages exerts cytoprotective effects by sustained PI3K/Akt signalling. *Cell Microbiol* 13(8), 1130-1148.

Walther E, Schöfl G, Mrotzek G, Haryanti K, Sugama HP, Saluz (2011) Paralogous mitochondrial control region in the giant tiger shrimp, *Penaeus monodon* (F.) affects population genetics inference: A cautionary tale. *Mol Phylogenet Evol* 58(2), 404-408.

Walther M, Gebhardt P, Grosse-Gehling P, Würbach L, Irmeler I, Preusche S, Khalid M, Opfermann T, Kamradt T, Steinbach J, Saluz HP (2011) Implementation of 89Zr production and *in vivo* imaging of B-cells in mice with 89Zr-labeled anti-B-cell antibodies by small animal PET/CT. *Appl Radiat Isot* 69(6), 852-857.

Krügel H, Licht A, Biedermann G, Petzold A, Lassak J, Hupfer Y, Schlott B, Hertweck C, Platzer M, Brantl S, Saluz HP (2010) Cervimycin C resistance in *Bacillus subtilis* is due to a promoter up-mutation and increased mRNA stability of the constitutive ABC-transporter gene *bmrA*. *FEMS Microbiol Lett* 313(2), 155-163.

Volling K, Brakhage AA, Saluz HP (2007) Apoptosis inhibition of alveolar macrophages upon interaction with conidia of *Aspergillus fumigatus*. *FEMS Microbiol Lett* 275(2), 250-254.

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