



Institute for Specific Prophylaxis and Tropical Medicine

Center for Pathophysiology, Infectiology and Immunology

ISPTM Seminar

Speaker: Assoz. Univ.-Prof. Dr. Stefan SCHILD
Institute of Molecular Biosciences
Karl-Franzens-University Graz
Graz

Title: "Outer membrane vesicles of bacterial pathogens: Therapeutical implications, biogenesis and patho-physiological roles"

Date: Tuesday 19th November 2019, 12.00 s.t.

Venue: Seminar room 3
Kinderspitalgasse 15, 2nd floor, 1090 Vienna

Host: Aleksandra Inic-Kanada and Irma Schabussova



Assoz. Univ.-Prof. Dr. Stefan SCHILD



Key Words:

bacterial membrane vesicles, bacterial pathophysiology & virulence, *Vibrio cholerae*, bacterial adaptation strategies, bacterial biofilms

Professional Experience:

since 2011 Associate professor, Institute of Molecular Biosciences, University of Graz
2011 Habilitation in "Microbiology"
2010 - 2011 Assistant professor, Institute of Molecular Biosciences, University of Graz
2008 - 2010 University Assistant, Institute of Molecular Biosciences, University of Graz
2005 - 2008 Howard Hughes Medical Institute (HHMI) research associate in the lab of Dr. Andrew Camilli, Department of Molecular Biology & Microbiology, Tufts University, Boston, MA, USA

Recent Publications:

1. Pressler K, Mitterer F, Vorkapic D, Reidl J, Oberer M, **Schild S**. Characterization of *Vibrio cholerae*'s Extracellular Nuclease Xds. *Front Microbiol.* 2019 Sep 10;10:2057.
2. *Klebsiella oxytoca* enterotoxins tilimycin and tilivalline have distinct host DNA-damaging and microtubule-stabilizing activities. Unterhauser K, Pörtl L, Schneditz G, Kienesberger S, Glabonjat RA, Kitsera M, Pletz J, Josa-Prado F, Dornisch E, Lembacher-Fadum C, Roier S, Gorkiewicz G, Lucena D, Barasoain I, Kroutil W, Wiedner M, Loizou JI, Breinbauer R, Díaz JF, **Schild S**, Högenauer C, Zechner EL. *Proc Natl Acad Sci U S A.* 2019 Feb 26;116(9):3774-3783.
3. Genes Activated by *Vibrio cholerae* upon Exposure to *Caenorhabditis elegans* Reveal the Mannose-Sensitive Hemagglutinin To Be Essential for Colonization. List C, Grutsch A, Radler C, Cakar F, Zingl FG, Schild-Prüfert K, **Schild S**. *mSphere.* 2018 May 23;3(3). pii: e00238-18.
4. In vivo repressed genes of *Vibrio cholerae* reveal inverse requirements of an H⁺/Cl⁻ transporter along the gastrointestinal passage. Cakar F, Zingl FG, Moisi M, Reidl J, **Schild S**. *Proc Natl Acad Sci U S A.* 2018 Mar 6;115(10):E2376-E2385.
5. Roier, S., Zingl, F.G., Cakar, F., Durakovic, S., Kohl, P., Eichmann, T.O., Klug, L., Gadermaier, B., Weinzerl, K., Prassl, R., Lass, A., Daum, G., Reidl, J., Feldman, M.F., **Schild, S.**, A novel mechanism for the biogenesis of outer membrane vesicles in Gram-negative bacteria. *Nat Commun* 2016, 7, 10515. doi:10.1038/ncomms10515

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