

Dr. Sina Gerbach

Research Coordination Transfer Group Anti-infectives · Project Management +49 3641 532-1335 sina.gerbach@leibniz-hki.de

Curriculum vitae

Professional Career

since 2016	Scientific Coordinator, Leibniz Institute for Natural Product Research and Infection Biology - Hans Knöll Institute, Jena, Germany
2011 - 2016	Postdoc, Prof. P. Bastiaens, Max Planck Institute for Molecular Physiology, Dortmund, Germany, Activity of cMet during liver regeneration
2009 - 2011	Postdoc, Prof. L. Claesson-Welsh, Uppsala University, Sweden, NRP1 guides VEGFR2-mediated endothelial cell growth and tumor initiation.
2008	Postdoc, Prof. C. Thiede, University Hospital

	Dresden, Germany
2003 - 2007	PhD, Prof. C. Thiede, University Hospital Dresden, Germany, Receptor tyrosinkinase FLT3 in leukemic cells
2002	guest scientist, Prof. H. Sjöström, University of Copenhagen, Denmark
2003	Diploma in Biochemistry of Nutrition, University of Potsdam,G-protein-coupled receptor F2alpha
1997 - 2003	Studies in Science of Nutrition, University of Potsdam, Germany

Topics

INCATE

Publications

Kloss F, Gerbach S (2018) Hürden und Aussichten neuer antimikrobieller Konzepte in Forschung und Entwicklung. [Obstacles and perspectives of new antimicrobial concepts within research and development]. *Bundesgesundheitsblatt Gesundheitsforschung Gesundheitsschutz* 61(5), 595-605. (Review)

Details

PubMed

PAPER

Koch S, Helbing I, Böhmer SA, Hayashi M, Claesson-Welsh L, Söderberg O, Böhmer FD (2016) In Situ Proximity Ligation Assay (In Situ PLA) to Assess PTP-Protein Interactions. *Methods Mol Biol* 1447, 217-242.

Details

PubMed

Koch S, van Meeteren LA, Morin E, Testini C, Weström S, Björkelund H, Le Jan S, Adler J, Berger P, Claesson-Welsh L (2014) NRP1 presented in trans to the endothelium arrests VEGFR2 endocytosis, preventing angiogenic signaling and tumor initiation. *Dev Cell* 28(6), 633-646.

Details

PubMed

Hayashi M, Majumdar A, Li X, Adler J, Sun Z, Vertuani S, Hellberg C, Mellberg S, Koch S, Dimberg A, Koh GY, Dejana E, Belting HG, Affolter M, Thurston G, Holmgren L, Vestweber D, Claesson-Welsh L (2013) VE-PTP regulates VEGFR2 activity in stalk cells to establish endothelial cell polarity and lumen formation. *Nat Commun* 4, 1672.

Details

Köthe S, Müller JP, Böhmer SA, Tschongov T, Fricke M, Koch S, Thiede C, Requardt RP, Rubio I, Böhmer FD (2013) Features of Ras activation by a mislocalized oncogenic tyrosine kinase: FLT3 ITD signals through K-Ras at the plasma membrane of acute myeloid leukemia cells. *J Cell Sci* 126(Pt 20), 4746-4755.

Details

Ortlepp C, Steudel C, Heiderich C, Koch S, Jacobi A, Ryser M, Brenner S, Bornhäuser M, Brors B, Hofmann WK, Ehninger G, Thiede C (2013) Autotaxin is expressed in FLT3-ITD positive acute myeloid leukemia and hematopoietic stem cells and promotes cell migration and proliferation. *Exp Hematol* 41(5), 444-461.e4.

Details

Koch S (2012) Neuropilin signalling in angiogenesis. *Biochem Soc Trans* 40(1), 20-25.

Details

Koch S, Claesson-Welsh L (2012) Signal transduction by vascular endothelial growth factor receptors. *Cold Spring Harb Perspect Med* 2(7), a006502.

Details

PubMed

Koch S, Tugues S, Li X, Gualandi L, Claesson-Welsh L (2011) Signal transduction by vascular endothelial growth factor receptors. *Biochem J* 437(2), 169-183.

Details

PubMed

Tugues S, Koch S, Gualandi L, Li X, Claesson-Welsh L (2011) Vascular endothelial growth factors and receptors: anti-angiogenic therapy in the treatment of cancer. *Mol Aspects Med* 32(2), 88-8111.

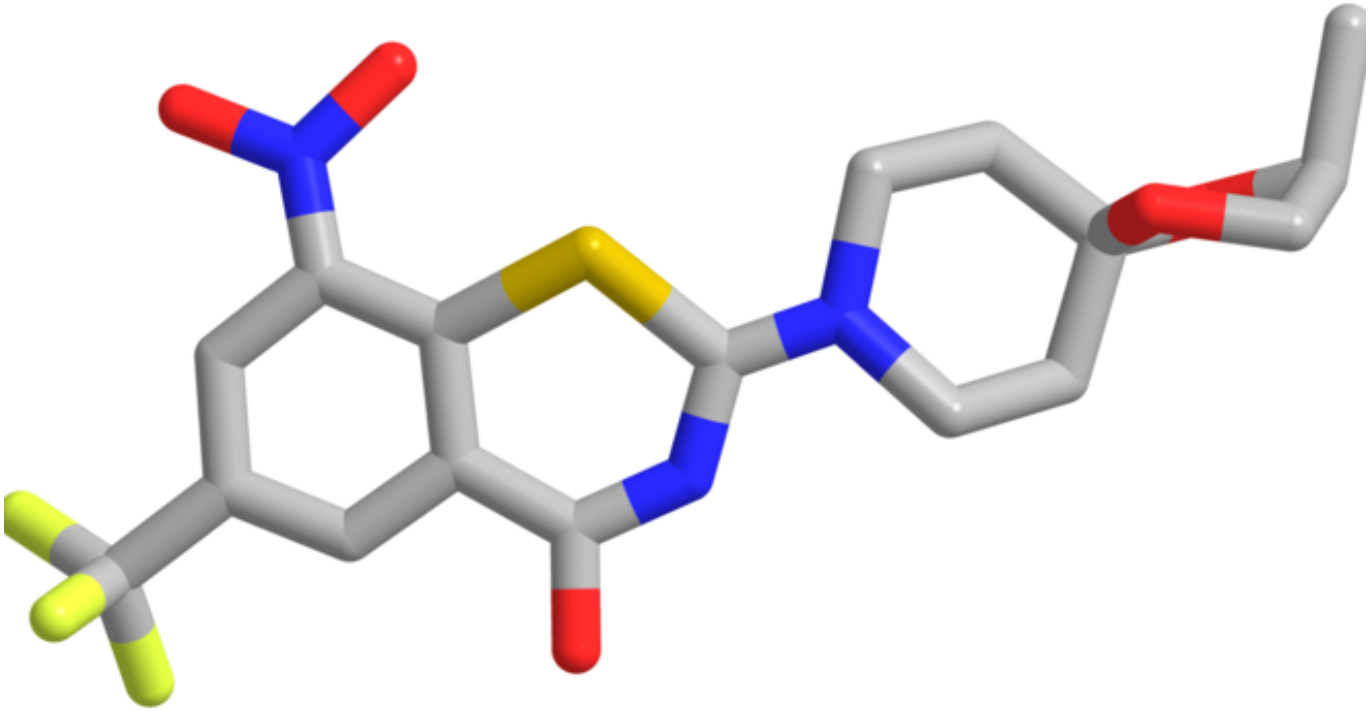
Details

PubMed

Publication list as PDF

News

INCATE marks two-year anniversary INCATE (the INCubator for Antibacterial Therapies in Europe) has successfully reached its two-year milestone, boasting an impressive array of achievem... 09/07/2023 Read more



Leibniz Drug of the year 2023 is a tuberculosis antibiotic The new antibiotic BTZ-043 has a completely new mechanism of action and belongs to a new class of substances. It is currently the only new antibiotic ... 05/26/2023 Read more