

Name Jörg Vogel

Department Helmholtz Institute for RNA-based Infection Research
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Education

1999 Dr. rer. nat., Humboldt University, Berlin, Germany
1997 Diplom Biochemistry, Humboldt University
1994-1995 Undergraduate Biochemistry, Imperial College London, UK

Positions held

2017-present Director, Helmholtz Institute for RNA-based Infection Research, Würzburg, Germany
2009-present Director and Full Professor, Institute of Molecular Infection Biology, University of Würzburg, Germany
2004-2010 Max Planck Research Group Leader, MPI for Infection Biology, Berlin, Germany
2002-2003 EMBO Fellow, Hebrew University, Hadassah Medical School, Jerusalem, Israel
2000-2001 Postdoc, Department of Cell & Molecular Biology, Uppsala University, Sweden

Research interests

The Vogel lab strives to understand the full spectrum of noncoding RNA and RNA-binding proteins in bacterial pathogens and in members of the human microbiome. We develop new RNA-seq based techniques to rapidly capture the RNA world of any microbe, ideally at the level of single cells, and understand how and why bacteria use RNA as a regulator as they infect humans. We ask basic mechanistic questions of RNA Biology but also work on RNA-centric manipulations of the microbiota.

Awards & Honours

Feldberg Prize (2019), Gottfried Wilhelm Leibniz Award, DFG (2017), Honorary Professor for RNA Biology, Imperial College London (2016-), Elected to European Academy of Microbiology (2015), German National Academy of Sciences (2013), American Academy of Microbiology (2013), EMBO Member (2011), DGHM Senior Scientist Award (2011), VAAM Research Award (2010)

Current editorial boards

Molecular Cell, EMBO Journal, RNA, Nucleic Acids Research, RNA Biology, Molecular Microbiology, mBio

Selected committee work

2019 - Board of Directors, RNA Society
2017 - Chair, DFG Committee on Scientific Instrumentation (Apparateausschuss)
2016 - Genome Editing Committee, German National Academy of Sciences
2015 - EMBO Fellowship Committee

Five selected publications

Stapels DAC, Hill PWS, Westermann AJ, Fisher R, Thurston TL, Saliba AE, Blommestein I, Vogel J, Helaine S (2018)
Salmonella persists undermine host immune defences during antibiotic treatment
Science 362:1156-1160

Westermann AJ, Förstner KU, Amman F, Barquist L, Chao Y, Schulte LN, Müller L, Reinhardt R, Stadler PF, Vogel J (2016)
Dual RNA-seq unveils noncoding RNA functions in host-pathogen interactions
Nature 529:496-501

Papenfert K, Sun Y, Miyakoshi M, Vanderpool CK, Vogel J (2013)
Small RNA-mediated activation of sugar phosphatase mRNA regulates glucose homeostasis
Cell 153:426-437

Deltcheva E, Chylinski K, Sharma CM, Gonzales K, Chao Y, Pirzada ZA, Eckert MR, Vogel J, Charpentier E (2011)
CRISPR RNA maturation by trans-encoded small RNA and host factor RNase III
Nature 471(7340):602-7

Sharma CM, Hoffmann S, Darfeuille F, Reignier J, Findeiß S, Sittka A, Chabas S, Reiche K, Hackermüller J, Reinhardt R, Stadler PF, Vogel J (2010)
The primary transcriptome of the major human pathogen Helicobacter pylori
Nature 464(7285)250-255