

CV – Gert Bange, Marburg

Prof. Dr. Gert Bange (born 1st December 1977; Married; 2 daughters: *2008 & 2012)

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Academic education and qualification

2007 Dr. rer. nat., University of Heidelberg (D)

2002 Diploma in Biochemistry, Martin-Luther-University, Halle/Saale (D)

Professional career

2019 – today Deputy director SYNMIKRO Research Center

2018 – today W3-Professor „Systems-Biochemistry“, University of Marburg

2013 - 2017 Independent Research Group Leader, SYNMIKRO, University of Marburg

2007 - 2012 PostDoc, Peter&Traudl Engelhorn Fellow, University of Heidelberg

Miscellaneous (selected)

since 2018 Member Senat “Studium und Lehre” der Philipps-Universität Marburg

2018 Winner iGEM Giant Jamboree (Overgrad), as instructor

since 2017 Editorial Board: Journal of biological Chemistry (JBC)

since 2017 PI and member of steering committee in the DFG CRC/TRR 174

2016 Head of DFG-Core Facility “MIDAS - Marburg core facility for Interactions, Dynamics and macromolecular Assembly Structure”

2016 Special Issue Editor: Current Opinion in Chemical Biology, Vol 34, 2016; “Synthetic Biology”

since 2016 PI and steering committee member in the DFG CRC 987

since 2016 Spokesman of the “Marburg School of Microbiology”

since 2016 PI in the DFG priority Program 1879 “Nucleotide Second Messenger Signaling in Bacteria”

since 2014 Member of Steering Committee and Faculty of IMPRS-Mic

Reviewer for various funding agencies and scientific journals

Selected Publications (past years and out of > 70)

Han X, Altegoer F, Steinchen S, Schuhmacher J, Glatter T, Giammarinaro PI, Djamei A, Rensing SA, Reissmann S, Kahmann R, **Bange G** (2019). A kiwellin disarms the metabolic activity of a secreted fungal virulence factor. **Nature** 565(7741):650-653

Pausch P, Steinchen W, Wieland M, Klaus T, Freibert SA, Altegoer F, Wilson DN, **Bange G** (2018). Structural basis for (p)ppGpp-mediated inhibition of the GTPase RbgA. **JBC**, 293(51):19699-19709

Pausch P, Müller-Esparza H, Gleditzsch D, Randau L, **Bange G** (2017). Structural variation of type I-F CRISPR RNA guided DNA surveillance. **Molecular Cell** 67(4):622-632.e4.

Altegoer F, Rensing SA, **Bange G** (2016). Structural basis for the CsrA-dependent modulation of translation initiation by an ancient regulatory protein. **PNAS** 113 (36), 10168-10173.

Steinchen W, Schuhmacher J, Altegoer F, Fage CD, Srinivasan V, Linne U, Marahiel M, **Bange G** (2015). Catalytic mechanism and allosteric regulation of an oligomeric (p)ppGpp synthetase by an alarmone. **PNAS** 112 (43), 13348-13353

Schuhmacher JS, Rossmann F, Dempwolff F, Knauer C, Altegoer F, Steinchen W, Dorrich A, Klingl A, Stephan M, Linne U, Thormann K, **Bange, G** (2015) The MinD-like ATPase FlhG effects location and number of bacterial flagella during C-ring assembly. **PNAS**, 112(10):3092-7