

Curriculum Vitae

Name Christof Mast
Address Stieglbräugasse 5
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Date of birth 14.04.1983
Place of birth Munich
Citizenship German
Status Married
Children Julius (*2013), Gabriel (*2016)



2018 Principal Investigator with **Volkswagen Foundation** (“Prebiotic synthesis on the rocks”)
2018 Principal Investigator with **DFG/CRC235** (“Emergence of Life”)
2018 **Permanent** position at the LMU (Akad. Rat), group hosted by Dieter Braun
2015 **CenS Innovation Award** for outstanding research with potential for industrial applications (price: 6000 €).
October 2013 **PhD, summa cum laude**
2009 – 2013 PhD with Dieter Braun (Systems Biophysics, LMU) with a fellowship of the **Elitenetwork Bavaria** (IDK/NBT)
2009 **Diploma Thesis (with distinction)** with Dieter Braun (LMU)
2007 – 2009 Fellowship of the **"Studienstiftung des Deutschen Volkes"**
2003 – 2009 Study of **Physics**, Ludwig-Maximilians-Universität Munich (LMU)

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- **Thermal Habitat for RNA Amplification and Accumulation**, A. Salditt, L. M. R. Keil, D. P. Horning, C. B. Mast, Gerald F. Joyce, and Dieter Braun, Physical Review Letters 125, 048104 (2020)
- **Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules**, M. Morasch, J. Liu, C.F. Dirscherl, A. Ianeselli, A. Kühnlein, K. Le Vay, P. Schwintek, S. Islam, M.K. Corpinot, B. Scheu, D.B. Dingwell, P. Schwille, H. Mutschler, M.W. Powner, C.B. Mast & D. Braun, Nature Chemistry (2019)
- **Periodic Melting of Oligonucleotides by Oscillating Salt Concentrations triggered by, Microscale Water Cycles inside Heated Rock Pores**, Alan Ianeselli, Christof B. Mast and Dieter Braun, Angewandte Chemie (2019)
- **Optochemical disequilibrium to measure biomolecule charge**, Friederike M. Möller, Michael Kieß, Christof Mast and Dieter Braun, Physical Review E 98, 062601 (2018)
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- **Thermal Solutions for Molecular Evolution**, Christof B. Mast, Natan Osterman and Dieter Braun., International Journal of Modern Physics B (2012)
- **Optical Fluid and Biomolecule Transport with Thermal Fields**, Franz M. Weinert, Christof B. Mast and Dieter Braun, PCCP doi 10.1039/C0CP02359K (2011)
- **Disequilibrium First: The Origin of Life**, Christof B. Mast, Natan Osterman and Dieter Braun, Journal of Cosmology 10, 3305-3314 (2010)
- **Thermal Trap for DNA Replication**, Christof B. Mast and Dieter Braun, Physical Review Letters 104, 188102 (2010)