

Curriculum Vitae

Dr. Claus-Dieter Kuhn
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PERSONAL DATA

Date of birth: July 19, 1978
Nationality: German
Family status: married, 2 children

CURRENT POSITION

Since 09/2014 Independent Research Group Leader within the Elite Network of Bavaria at the University of Bayreuth, URL: www.kuhnlab.uni-bayreuth.de

EDUCATION

10/2003 - 02/2008 PhD Student at the Gene Center of the Ludwig-Maximilians-University in Munich, in the Group of Prof. Dr. Patrick Cramer
08/2002 - 07/2003 Master of Science with a Major in Chemistry, Department of Biochemistry and Biophysics, Stockholm University, Sweden
10/1999 - 07/2002 Undergraduate Studies in Biochemistry at the University of Regensburg

PROFESSIONAL CAREER

03/2010 - 07/2014 Postdoctoral Fellow at Cold Spring Harbor Laboratory, NY, USA, in the Group of Prof. Dr. Leemor Joshua-Tor
10/2009 - 02/2010 X-ray crystallographer with Proteros Biostructures, Martinsried
03/2008 - 09/2009 Postdoctoral Fellow at Cold Spring Harbor Laboratory, NY, USA, in the Group of Prof. Dr. Leemor Joshua-Tor

SCHOLARSHIPS, AWARDS AND GRANTS

2020 Acceptance into the **Heisenberg Program of the DFG** (appointment procedure as a Heisenberg Professor ongoing)
2020 DFG Grant for our work on the the role of piRNAs in the epidermis of planarians. Awarded sum: 454,350 Euro (excluding overheads)

2018	Grant from the Oberfrankenstiftung for our work on "The impact of Neuronal enhancer RNAs on Neuronal plasticity and Neurogenesis". Awarded sum: 67,000 Euro
2017	DFG Grant as part of the Priority Program 1738 (Emerging roles of non-coding RNAs in nervous system development, plasticity and disease). Awarded sum: 222,900 Euro
2016	Recipient of the Paul Ehrlich and Ludwig Darmstaedter-Prize for Young Researchers . Awarded Sum: 60,000 Euro
2016	DFG Grant for our work on the "Role of neuronal eRNAs in transcription activation". Awarded sum: 220,000 Euro
2014	Junior Group Leader within the Elite Network of Bavaria at the University of Bayreuth (competitive recruitment process). Awarded sum: 1.44 million Euro
2008 - 2012	Postdoctoral Fellowship from the Jane Coffin Childs Memorial Fund for Medical Research , Yale University Medical School, Yale, USA
2008	EMBO Postdoctoral Long-Term fellowship (declined)
2005 - 2008	Member of the Elite Network of Bavaria Graduate Programs 'Protein Dynamics in Health and Disease' and 'Nano-Biotechnology'
2008	Publication Award from the Center for Nanoscience, Ludwig-Maximilians-University Munich
2007	Römerprize from the Department of Chemistry and Biochemistry of the Ludwig-Maximilians-University Munich
2004 - 2006	Kekulé Scholarship from the Fund of German Chemical Industry (FCI)
1999 - 2003	Scholarship for highly gifted students from the Wilhelm-Narr-Foundation in Kirchheim/Teck

10 MOST IMPORTANT PEER-REVIEWED PUBLICATIONS

1. Iana V. Kim, Sebastian Riedelbauch and **Claus-D. Kuhn** (2020). The piRNA pathway in planarian flatworms: new model, new insights. **Biol Chem** 401, 1123–1141
2. Felix Klatt, Alexander Leitner, Iana V. Kim, Xuan-Hung Ho, Elisabeth V. Schneider, Franziska Langhammer, Robin Weinmann, Melanie R. Müller, Robert Huber, Gunter Meister and **Claus-D. Kuhn** (2020). A precisely positioned MED12 activation helix stimulates CDK8 kinase activity. **Proc. Natl. Acad. Sci. USA** 117, 2894-2905
3. Iana V. Kim, Elisabeth M. Duncan, Eric J. Ross, Vladyslava Gorbovytska, Stephanie Nowotarski, Sarah A. Elliott, Alejandro Sánchez Alvarado and **Claus-D. Kuhn** (2019). Planarians recruit piRNAs for mRNA turnover in adult stem cells. **Genes & Development** 33, 1575-1590
4. Iana V. Kim, Eric J. Ross, Sascha Dietrich, Kristina Döring, Alejandro Sánchez Alvarado and **Claus-D. Kuhn** (2019). Efficient ribodepletion for RNA sequencing in planarians. **BMC Genomics** 20:909
5. **Claus-D. Kuhn** (2016). RNA flexibility governs tRNA function. **BioEssays** 38 (5), 465-73.
6. Dirk Kostrewa*, **Claus-D. Kuhn***, Christoph Engel, and Patrick Cramer (2015). An alternative RNA polymerase I structure reveals a dimer hinge. **Acta Cryst. Section D** 71, 1850-1855. (* contributed equally)
7. **Claus-D. Kuhn**, Jeremy E. Wilusz, Yuxuan Zheng, Peter A. Beal, and Leemor Joshua-Tor (2015). On-Enzyme Refolding Permits Small RNA and tRNA Surveillance by the CCA-Adding Enzyme. **Cell** 160, 1-15.
8. **Claus-D. Kuhn** and Leemor Joshua-Tor (2013). Eukaryotic Argonautes come into focus. **Trends in Biochemical Sciences** 38, 263-271.

9. Elad Elkayam, **Claus-D. Kuhn**, Ante Tocilj, Astrid D. Haase, Emily M. Greene, Gregory J. Hannon, and Leemor Joshua-Tor (2012). The Structure of Human Argonaute-2 in Complex with miR-20a. *Cell* **150**, 100-110.
10. **Claus-D. Kuhn**, Sebastian R. Geiger, Sonja Baumli, Marco Gartmann, Jochen Gerber, Stefan Jennebach, Thorsten Mielke, Herbert Tschochner, Roland Beckmann, and Patrick Cramer (2007). Functional architecture of RNA Polymerase I. *Cell* **131**, 1260-1272.

SUPERVISION OF UNDERGRADUATE AND GRADUATE STUDENTS

2015 – now	4 PhD students. In addition, external advisor to 2 additional PhD students
2015 – now	12 Master Students (Master in Biochemistry and Molecular Biology)
2016 – now	3 Bachelor Students

TEACHING ACTIVITIES

2014 – now	Lecture 'Chemistry for Biologists', including a tutorial and exercises (<i>Bachelor Biology and Bachelor Geo-Ecology</i>) (3 SWS)
2019	Lecture 'Biochemistry III for Biochemists', including exercises (<i>Bachelor Biochemistry</i>) (4 SWS)
2015 – now	Master Module 'Non-coding RNA and Epigenetics' (9 SWS) (<i>Master Biochemistry and Molecular Biology</i>)
2016 – now	Module 'From Molecular detail to genome-wide view'. Part of the Elite Study Program Macromolecular Science at the University of Bayreuth
2016 – now	Organizer of a Biochemical Lecture Series, termed BIOMac Seminar URL: www.kuhnlab.uni-bayreuth.de/en/biomac-seminar

REVIEWING ACTIVITY

Journals:	eLIFE, EMBO Journal, RNA, Scientific Reports
Grant agencies:	German Research Foundation (DFG), Wellcome Trust (United Kingdom), NSERC (Canada), FWF (Austria)