C U R R I C L U L U M V I T A E

P R O F . D R . M A R C B R A M K A M P

(Dipl. Biol.)

PERSONAL

Date of Birth: 05.07.1974

Place of Birth: Georgsmarienhütte, Lower Saxony, Germany

Marital status: married, three children

Nationality: German

ADDRESS

Business address

Christian-Albrechts-University Kiel

Institute for General Microbiology

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Seestraße 6

24306 Plön

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PROFESSIONAL EXPERIENCE

AUGUST 2019-PRESENT

- Professor (W3) at the Christian-Albrechts-University, chair of Microbial Biochemistry and Cell Biology, Director Institute of General Microbiology, Head of the Central Microscopy facility at the Dept. of Biology

APRIL 2012-JULY 2019

- Professor of microbiology (W2) at the LMU Munich (tenured)

OCTOBER 2015 - OCTOBER 2017

- Vice-dean (Prodekan) faculty of Biology at the LMU Munich

2011

- Call for a professorship of microbiology (W2) at the LMU Munich (accepted)
- Call for a professorship of synthetic microbiology (W2) at the Philipps-University Marburg (declined)

JANUARY 2011

- Habilitation, *venia legendi* for biochemistry (chemical and biological direction), University of Cologne

JANUARY 2006 - APRIL 2012

- Group leader (Bacterial cell biology laboratory) at the University of Cologne (Prof. R. Krämer), Institute of Biochemistry and member of the SFB 635

JANUARY 2004 – JANUARY 2006

- Postdoctoral research fellow at the Oxford University, Sir William Dunn School of Pathology (Prof. Dr. Jeffery Errington)

FEBRUARY 2003 – DECEMBER. 2004

- Postdoctoral research fellow at the University of Osnabrück, Dept. of Microbiology (Prof. Dr. Karlheinz Altendorf)

ACADEMIC EDUCATION

JANUARY 1999 - FEBRUARY 2003

- Ph. D. thesis (Dr. rer. nat) at the University Osnabrück, Dept. of Microbiology (Prof. Dr. K. Altendorf) (Summa cum laude)

Thesis: Characterization of the KdpFABC complex of *Escherichia coli* and production of soluble subdomains of KdpB and a homologous protein of *Methanococcus jannaschii.*

NOVEMBER 1997 - SEPTEMBER. 1998

- Diplom thesis (final grade 0.9)

Conducted at the Helmholtz Centre for Infection Research (formerly GBF), Braunschweig, Germany

Thesis: Conjugational gene transfer in a laboratory scale sewage plant.

Prof. Dr. J. W. Lengeler (Dept. of Genetics, University Osnabrück)

Prof. Dr. K. N. Timmis (Dept. of Microbiology, HZI)

OCTOBER 1993-SEPTEMBER 1998
Studies of Biological Sciences at the University Osnabrück, Germany

SELECTED PUBLICATIONS

Böhm K, Giacomelli G, Schmidt A, Imhof A, Koszul R, Marbouty M, Bramkamp M. (2020) Chromosome organization by a conserved condensin-ParB system in the actinobacterium Corynebacterium glutamiucm. Nature Comm., 11, 1485 (2020).

Toro-Nahuelpan, M, Giacomelli, G, Raschdorf O, Borg S, Plitzko JM, Bramkamp, M., Schüler D and Müller, FD (2019) MamY is a membrane-bound protein that aligns magnetosomes and the motility axis of helical magnetotactic bacteria. Nat Microbiol. 2019 Nov;4(11):1978-1989. doi: 10.1038/s41564-019-0512-8. Cover image

Guo L, **Bramkamp M**. (2019) Bacterial dynamin-like protein DynA mediates lipid and content mixing. FASEB J. 33(11):11746-11757.

Böhm K, Meyer F, Rhomberg A, Kalinowski J, Donovan C and **Bramkamp M** (2017) Novel Chromosome Organization Pattern in *Actinomycetales*-Overlapping Replication Cycles Combined with Diploidy. *MBio*. 8(3). pii: e00511-17. doi: 10.1128/mBio.00511-17

Bach JN, Giacomelli G and **Bramkamp M** (2017) Sample Preparation and Choice of Fluorophores for Single and Dual Color Photo-Activated Localization Microscopy (PALM) with

Bacterial Cells. *Methods Mol Biol*. 1563:129-141. doi: 10.1007/978-1-4939-6810-7_9. **Cover Image**

Schubert K, Sieger B, Meyer F, Giacomelli G, Böhm K, Rieblinger A, Lindenthal L, Sachs N, Wanner G and **Bramkamp M** (2017) The Antituberculosis Drug Ethambutol Selectively Blocks Apical Growth in CMN Group Bacteria. *MBio*. 8(1). pii: e02213-16. doi: 10.1128/mBio.02213-16

Bach, J.N.. and **Bramkamp, M.** (2013). Flotillins functionally organize the bacterial membrane. *Mol Microbiol*, **88**, 1205-1217

Donovan, C., Sieger, B., Krämer, R., and **Bramkamp, M.** (2012). A synthetic Escherichia coli system identifies a conserved origin tethering factor in Actinobacteria., *Mol Microbiol* **84**, 105-116

Bürmann, F., Ebert, N. van Baarle, S., and **Bramkamp, M.** (2011) *Bacillus subtilis* dynamin-like protein catalyzes magnesium assisted membrane fusion. *Mol Microbiol*. **79**, 1294-1304, **recommended by Faculty of 1000, highlighted in Nat. Reviews Microbiol. 9, 149**

Donovan, C., Schwaiger, A., Krämer, R., and **Bramkamp, M.** (2010). Subcellular localization and characterization of the ParAB system from *Corynebacterium glutamicum. J. Bacteriol.*, **192**, 3441-3451

FUNDING (PAST 5 YEARS)

BR 2915/7-1: Characterization of novel SPFH-domain proteins in *B. subtilis*

BayFrance: Cooperation grant (with Dr. B. Habenstein, Bordeaux)

BR 2915/6-2: Chromosome organization in *C. glutamicum*: Information storage in 3D

TRR174 – Apical growth and generation of asymmetry in Corynebacteria

INST 86/1583-1 Start 2015 – 3D PALM/STORM microscope Zeiss Elyra P1

BR 2915/6-1: Chromosome organization in *C. glutamicum*: Information storage in 3D

BMBF 031A302 e:Bio-Modul II: 0.6 plus – Regulation of cell division and membrane economy in *Corynebacterium glutamicum*.

BR 2915/4-1 Start 2013 – Control of membrane dynamics by cooperative action of bacterial dynamin-like proteins and flotillins

INST 86/1452-1 Start 2013 – DeltaVision 4D microscope

BR 2915/2-1 Start 2011-2014 – Division site selection in *Bacillus subtilis*: Structure and function of the novel component MinJ

MEMBERSHIPS

- GBM (Society for Biochemistry and Molecular Biology)
- VAAM (Society for General and Applied Microbiology)
- Deutscher Hochschulverband

TEACHING EXPERIENCE

- LMU Munich: Lecture and practical course in microbiology for medical students, supervision of practical courses for graduated students in current research projects. Supervision of Bachelor, Master and PhD students

- University of Cologne: Supervision of PhD, Diplom, Master and Bachelor students, practical courses and lectures for Bachelor, Master and Diplom students

- Oxford University: Supervision of Master students

- University of Osnabrück: Supervision of practical courses for graduated students in current research projects. Supervision of Bachelor, Master and Diplom students

ADDITIONAL QUALIFICATIONS

- Project leader (PI) and biological safety officer according to § 15 (2) and (4) GenTSV, Germany

- Attended several Leadership Seminars (Mentisleadership GbR, LMU Munich, Golin Wissenschaftsmanagement)

- Language skills: German mother language, English fluent, French basic knowledge

- Software skills: Office programs, Metamorph, Axiovision, softWorX, Fiji, Zen, R, Corel Draw, Adobe, Vector NTI

(Prof. Dr. Marc Bramkamp)

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