

# Björn Gerlach, PhD

## Qualitymanagement

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### Work experience

- 2022 – present **Central Institute of Mental Health, Heidelberg, Germany**  
*Qualitymanager* – Institute of Psychopharmacology, Prof Rainer Spanagel
- Implementation of an electronic lab notebook
  - Setting up the EQIPD quality system
- 2015 – present **PAASP GmbH, Heidelberg, Germany**  
*Founding Partner* – Chief Operating Officer
- Focus on quality in preclinical research and drug development
  - Establishing standards, organisation of meetings, writing grant applications
  - Responsible for business operations
- 2011 – 2015 **Abbott/AbbVie Deutschland GmbH, Ludwigshafen, Germany**  
*Post-doctoral fellow* – Pharmacology, Group Leader Bernhard K. Mueller
- Research on neurodegenerative diseases and biomarkers
  - Management of an externally funded project and CROs
- 2011 **Gerlach Industrielectronic GmbH, Mossautal, Germany**  
*Full time employee* – 7 months, CEO Karl Gerlach  
Construction and service of mechanical parts for automobile industry
- 2008 – 2011 **Imperial College London, London, United Kingdom**  
2006 – 2008 **German Cancer Research Centre, Heidelberg, Germany**  
*PhD student* – Group Leader Henning Walczak  
Research on immune signalling and responsible for the lab organisation
- 2009 **La Trobe University, Melbourne, Australia**  
*Visiting scientist* – 2 months, full time, Group Leader John Silke
- 2005 – 2006 **Justus-Liebig-University, Giessen, Germany**  
*Diploma student* – 8 months, full time, Group Leader Michael U. Martin  
Investigation of IL-1alpha signalling
- 2004 – 2005 **University of York, York, United Kingdom**  
*Practical intern* – 5 months, 20 hours/week, Group Leader Dawn Coverley
- 2004 **EMBL Heidelberg, Germany**  
*Practical intern* – 2 months, full time, Group Leader Frank Gannon

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### Education

- 2001 – 2006 **Justus-Liebig-University, Giessen, Germany**  
*Diploma in biology – biochemistry (1,3), immunology (1,0) and microbiology (1,0)*
- 2004 - 2005 **University of York, York, United Kingdom**  
*Erasmus exchange – 6 month - graduate courses in cell biology and immunology*
- 2000 – 2001 **German Red Cross, Erbach, Germany**  
*Civil service as ambulance driver*
- 1992 – 2000 **Gymnasium Michelstadt, Germany**  
*Abitur (2,3) - Biology, chemistry, German and politics*

### Courses and professional activities

- 2021 - present **Guarantors of EQIPD e.V., Heidelberg, Germany**  
*Founding member and treasurer of the association for the sustainability of the EQIPD quality system*
- 2017 **Quality assurance courses, ComCave College, Mannheim, Germany**  
*Education to the Quality Representative, Quality Manager and Quality Auditor – each over 4 weeks with certification*
- 2013 **Grundlagen der Rhetorik, Bad Kreuznach, Germany**  
*Rethorik course – two days – by Peter Wege, Trainergemeinschaft*
- 2009 **Personal licence rodents, London, United Kingdom**  
*Course for professional handling of animals - one week with certification*
- 1997 – 1998 **Incentive Med, Erbach, Germany**  
*Training as an emergency medical technician (Rettungssanitäter in Hessen) – 520 hours at weekends/holidays with certification*
- 1996 **Wasserwacht, Erbach, Germany**  
*Lifeguard certification*

### Teaching Experience

- 2017 - present **Workshops and lectures in the name of PAASP GmbH**  
*Taught students on data integrity principles*
- 2012 - 2015 **Supervision of students at AbbVie Deutschland GmbH**  
*Supervised two Bachelor and 1 Master student*
- 2008 - 2010 **Supervision of students at Imperial College London**  
*Supervised a diploma student and a student researcher*
- 2005 **Supervision of courses at Justus-Liebig-University Giessen**  
*Supervised one-week hands on courses in genetics*
- 2000 – 2001 **Swimming lessons for children (3 – 7 years), Erbach**  
*Taught swimming for beginners*
- 1996 – 1999 **Swim training for children (8 – 12 years), Wasserwacht, Erbach**  
*Trained children in swimming and basic lifeguarding*

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### Publications

Restivo L, **Gerlach B**, Tsoory M, Bikovski L, Badurek S, Pitzer C, Kos-Braun IC, Mausset-Bonnefont AM, Ward J, Schunn M, Noldus LP, Beshpalov A, Voikar V. (2021) Towards best practices in research: Role of academic core facilities. *EMBO Rep.* 2021 Dec 6;22(12):e53824. doi: 10.15252/embr.202153824. Epub 2021 Nov 4. PMID: 34734666

Beshpalov A, Bernard R, Gilis A, **Gerlach B**, Guillén J, Castagné V, Lefevre IA, Ducrey F, Monk L, Bongiovanni S, Altevogt B, Arroyo-Araujo M, Bikovski L, de Bruin N, Castaños-Vélez E, Dityatev A, Emmerich CH, Fares R, Ferland-Beckham C, Froger-Colléaux C, Gailus-Durner V, Hölter SM, Hofmann MC, Kabitzke P, Kas MJ, Kurreck C, Moser P, Pietraszek M, Popik P, Potschka H, Prado Montes de Oca E, Restivo L, Riedel G, Ritskes-Hoitinga M, Samardzic J, Schunn M, Stöger C, Voikar V, Vollert J, Wever KE, Wuyts K, MacLeod MR, Dirnagl U, Steckler T. (2021) Introduction to the EQIPD quality system. *Elife.* 2021 May 24;10:e63294. doi: 10.7554/eLife.63294

Hewera M, Hänggi D, **Gerlach B**, Kahlert UD. (2021) eLabFTW as an Open Science tool to improve the quality and translation of preclinical research. *F1000Res.* 2021 Apr 16;10:292. doi: 10.12688/f1000research.52157.3. eCollection 2021. PMID: 34381592

Beshpalov A, Emmerich C, **Gerlach B** (2020) *Temperature* (Austin). 2020 Sep 2;7(4):301-303. doi: 10.1080/23328940.2020.1801133. eCollection

Emmerich CH, Gamboa LM, Hofmann MCJ, Bonin-Andresen M, Arbach O, Schendel P, **Gerlach B**, Hempel K, Beshpalov A, Dirnagl U, Parnham MJ. (2021) Improving target assessment in biomedical research: the GOT-IT recommendations. *Nat Rev Drug Discov.* 2021 Jan;20(1):64-81. doi: 10.1038/s41573-020-0087-3. Epub 2020 Nov 16. PMID: 33199880

Kos-Braun IC, **Gerlach B**, Pitzer C. (2020) A survey of research quality in core facilities. *Elife.* 2020 Nov 26;9:e62212. doi: 10.7554/eLife.62212. PMID: 33241998

**Gerlach B**, Untucht C, Stefan A (2020) Electronic Lab Notebooks and Experimental Design Assistants. *Handb Exp Pharmacol.* 2020;257:257-275. doi: 10.1007/164\_2019\_287. PMID: 31541321

Demicheva E, Cui YF, Bardwell P, Barghorn S, Kron M, Meyer AH, Schmidt M, **Gerlach B**, Leddy M, Barlow E, O'Connor E, Choi CH, Huang L, Veldman GM, Rus H, Shabanzadeh AP, Tassew NG, Monnier PP, Müller T, Calabresi PA, Schoemaker H, Mueller BK. (2015) Targeting Repulsive Guidance Molecule A to Promote Regeneration and Neuroprotection in Multiple Sclerosis. *Cell Rep.* 2015 Mar 17. pii: S2211-1247(15)00206-5. doi: 10.1016/j.celrep.2015.02.048. [Epub ahead of print]

Müller T, Barghorn S, Lütge S, Haas T, Mueller R, **Gerlach B**, Ohm G, Eilert K, Trommer I, Mueller BK. (2014) Decreased levels of repulsive guidance molecule A in association with beneficial effects of repeated intrathecal triamcinolone acetone application in progressive multiple sclerosis patients. *J Neural Transm.* 2014 Sep 11. [Epub ahead of print]

**Gerlach B**, Cordier SM, Schmukle AC, Emmerich CH, Rieser E, Haas TL, Webb AI, Rickard JA, Anderton H, Wong WW, Nachbur U, Gangoda L, Warnken U, Purcell AW, Silke J, Walczak H (2011) Linear ubiquitination prevents inflammation and regulates immune signalling. *Nature* **471**(7340): 591-596

Emmerich CH, Schmukle AC, Haas TL, **Gerlach B**, Cordier SM, Rieser E, Walczak H. (2011) The Linear Ubiquitin Chain Assembly Complex (LUBAC) Forms Part of the TNF-R1 Signalling Complex and Is Required for Effective TNF-Induced Gene Induction and Prevents TNF-Induced Apoptosis. *Adv Exp Med Biol.* **691**:115-26.

Haas TL, Emmerich CH, **Gerlach B**, Schmukle AC, Cordier SM, Rieser E, Feltham R, Vince J, Warnken U, Wenger T, Koschny R, Komander D, Silke J, Walczak H (2009) Recruitment of the linear ubiquitin chain assembly complex stabilizes the TNF-R1 signaling complex and is required for TNF-mediated gene induction. *Mol Cell* **36**(5): 831-844

Falschlehner C, Emmerich CH, **Gerlach B**, Walczak H (2007) TRAIL signalling: decisions between life and death. *Int J Biochem Cell Biol* **39**(7-8): 1462-1475

Ainscough JF, Rahman FA, Sercombe H, Sedo A, **Gerlach B**, Coverley D (2007) C-terminal domains deliver the DNA replication factor Ciz1 to the nuclear matrix. *J Cell Sci* **120**(Pt 1): 115-124