

Dr. Andreas Walter
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PROFESSIONAL EXPERIENCE

- | | |
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| since
10/2016 | Operating Director, BioImaging Austria - Correlated Multimodal Imaging Node Austria (CMI), Research consortium of 8 universities & research institutes, Vienna, Austria <ul style="list-style-type: none">• Management and strategic development of CMI as an internationally visible imaging hub for flagship technologies and correlated multimodal imaging• Coordination of more than 35 research groups/facilities for preclinical & biological imaging• Supervision, development and evaluation of scientific projects & service projects• Method development in multimodal correlated imaging• Initiation and coordination of industrial collaborations• Representation of CMI on a national & international level at conferences & meetings• Scientific community involvement: Peer-reviewing, lectures & supervision of students• Grant applications & management• Close interaction with political stakeholders• Administration and budgeting• Marketing, public relations and dissemination |
| 10/2014 -
10/2016 | Postdoc & Fellow of the German Research Association (DFG fellowship), University of California San Francisco, Department of Anatomy · Affiliate, Lawrence Berkeley National Laboratory, National Center for X-ray Tomography, Berkeley, USA <ul style="list-style-type: none">• Application & correlation of soft x-ray tomography and cryo-fluorescence tomography• Initiation, design, analysis and supervision of experiments in collaboration with users of the National Center for X-ray Tomography; technical support• Acquisition of external funding; successful application for a DFG grant for the correlation of soft x-ray tomography with super-resolution microscopy |
| 03/2010 -
10/2014 | Research Scientist (PhD), Max Planck Institute of Biophysics, Department of Structural Biology, Frankfurt, Germany, collaboration with Carl Zeiss AG <ul style="list-style-type: none">• Hard- and software development in electron microscopy; application of transmission and scanning electron microscopy• Initiation, coordination and supervision of the construction of several prototypes in collaboration with research groups, electrical workshops and companies• Mentoring and supervision of interns and (under)graduates |
| 08/2009 -
03/2010 | Guest Scientist, European Molecular Biology Laboratory (EMBL), Department of Biophysics and Cell Biology, Heidelberg, Germany <ul style="list-style-type: none">• Application of fluorescence microscopy-based techniques to study the spatiotemporal organization and dynamics of chromatin• Image processing, development of image routines & data analysis |
| 09/2009 -
02/2010 | Mathematics and physics teacher, Helene Lange School, Mannheim, Germany |

EDUCATION

- 09/2015 - 04/2018 Certificate in Technology & Innovation Management I & II (lectures & examinations), University of Hagen, Germany
- 03/2010 - 09/2014 PhD studies in Physics, Max Planck Institute of Biophysics, Department of Structural Biology, Frankfurt, Germany (*summa cum laude*) · Supervisor: Prof. Dr. Kühlbrandt
- 07/2008 - 08/2009 Diploma thesis in Physics, EMBL, Department of Biophysics and Cell Biology, Heidelberg, Germany (1.0) · Supervisor: Dr. Ellenberg
- 09/2003 - 08/2009 Physics & Biophysics Diploma, Ruprecht Karls University of Heidelberg, Germany (1.3)
- 08/2006 - 04/2007 Research intern & studies of biophysics, Saint Petersburg State University, Russia
- 08/1993 - 03/2002 Abitur, Gymnasium zu St. Katharinen Oppenheim, Germany (1.2)

AWARDS, FELLOWSHIPS & GRANTS

- Chair of COST Action COMULIS, Horizon 2020 (2018-2022)
- Fellow of the German Scholars Organization (GSO), German Leadership Academy (2016/2017)
- Fellowship of the German Research Association (DFG) (2016)
- Microscopy & Microanalysis Award 2015 for outstanding work on physical phase plates in electron microscopy, Microscopy Society of America (2015)
- *Summa-cum-laude* recognition for PhD thesis (2014)
- Baden-Wuerttemberg Scholarship for studies in biophysics, Federal State of Baden-Wuerttemberg, Germany (2006/2007)

SELECTED PUBLICATIONS

- Roth, M., Cokus, J., **Walter, A.**, Gallaher, S., Lopez, D., Erickson, E., Endelman, B., Westcott, D., Larabell, C., Merchant, S., Pellegrini, M., Niyogi, K., "Chromosome-level genome assembly and transcriptome of the green alga *Chromochloris zofingiensis* illuminates astaxanthin production." *Proc. Natl. Acad. Sci. USA* (2017)
- **Walter, A.**, Steltenkamp, S., Schmitz, S., Holik, P., Sachser, R., Huth, M., Rhinow, D., Kühlbrandt, W., "Towards an optimum design for electrostatic phase plates." *Ultramicroscopy*, 153:22-31 (2015)
- Gold, V., Raffaele, I., **Walter, A.**, Pfanner, N., van der Laan, M., Kühlbrandt, W., "Visualizing active membrane protein complexes by electron cryotomography." *Nature Communications*, 5:4129 (2014)
- **Walter, A.**, Chapuis, C., Huet, S., Ellenberg, J., "Crowded chromatin is not sufficient for heterochromatin formation and not required for its maintenance." *Journal of Structural Biology*, 184:445-453 (2013)
- Daum, B., **Walter, A.**, Horst, A., Osiewacz, H., Kühlbrandt, W., "Age-dependent dissociation of ATP synthase dimers and loss of inner-membrane cristae in mitochondria." *Proc. Natl. Acad. Sci. USA*, 110:15301-15306 (2013)
- **Walter, A.**, Muzik, H., Vieker, H., Turchanin, A., Beyer, A., Götzhäuser, A., Lacher, M., Steltenkamp, S., Schmitz, S., Holik, P., Kühlbrandt, W., Rhinow, D., "Practical aspects of Boersch phase contrast electron microscopy of biological specimens." *Ultramicroscopy*, 116:62-72 (2012)
- Barton, B., Rhinow, D., **Walter, A.**, Schröder, R., Benner, G., Majorovits, E., Niebel, H., Müller, H., Haider, M., Lacher, M., Schmitz, S., Holik, P., Kühlbrandt, W., "In-focus electron microscopy of frozen-hydrated biological samples with a Boersch phase plate." *Ultramicroscopy*, 111:1696-1705 (2011)