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Cellular cryo-tomography of nidovirus replication organelles

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Curriculum vitae

Georg Wolff, birth name Böing, was born on the 23rd of October 1989 in Heidelberg, Germany where he also completed his secondary school education. After he did civil service he started to study Molecular Biotechnology at the University of Heidelberg, where he was awarded a BSc in 2013. He subsequently attained a post-graduate Molecular Biotechnology MSc qualification at the same University in 2017. As part of this qualification, Georg gained research experience in the lab of Prof. Dr. Kay Grünewald under the supervision of Dr. Rainer Kaufmann, where he studied different biological specimen by super-resolution light microscopy under cryogenic conditions. His MSc thesis incorporated the analyses of lipids by mass spectrometry in combination with a novel differential ion mobility spectrometry method in the lab of Prof. Dr. Britta Brügger.

After completing his MSc, Georg carried out his doctoral research in the lab of Prof. Dr. Ir. Bram Koster at the Leiden University Medical Centre, under the supervision of Dr. Montserrat Bárcena and co-supervision of Prof. Dr. Eric Snijder. Here, he performed cellular electron cryotomographic analyses on viral replication organelles induced by corona- and arteriviruses.

In July 2022, Georg will start as an EMBL interdisciplinary postdoc (EIPOD) fellow in the lab of Dr. Simone Mattei, which is part of the EMBL Imaging Centre at EMBL Heidelberg, Germany.



List of publications

Zheng, S., **Wolff, G.**, Greenan, G., Chen, Z., Faas, F. G. A., Bárcena, M., Koster, A. J., Cheng, Y., Agard, D. A. (2022) AreTomo: An integrated software package for automated marker-free, motion-corrected cryo-electron tomographic alignment and reconstruction. *Journal of Structural Biology*: X:100068.

Wolff, G., Bárcena, M. (2021) Multiscale Electron Microscopy for the Study of Viral Replication Organelles. *Viruses* 13(2).

Wolff, G., Limpens, R., Zevenhoven-Dobbe, J. C., Laugks, U., Zheng, S., de Jong, A. W. M., Koning, R. I., Agard, D. A., Grunewald, K., Koster, A. J., Snijder, E. J., Barcena, M. (2020) A molecular pore spans the double membrane of the coronavirus replication organelle. *Science* 369(6509):1395-1398.

Wolff, G.*, Melia, C. E.*, Snijder, E. J., Barcena, M. (2020) Double-Membrane Vesicles as Platforms for Viral Replication. *Trends Microbiol* 28(12):1022-1033.

Wolff, G., Limpens, R., Zheng, S., Snijder, E. J., Agard, D. A., Koster, A. J., Barcena, M. (2019) Mind the gap: Micro-expansion joints drastically decrease the bending of FIB-milled cryo-lamellae. *Journal of structural biology* 208(3):107389.

Wolff, G., Hagen, C., Grünewald, K., Kaufmann, R. (2016) Towards correlative super-resolution fluorescence and electron cryo-microscopy. *Biol Cell* 108(9):245-258.

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