

## General

Name	Walther, Paul, Prof. Dr. 02.03.1956, male
Affiliation	Central Facility for Electron Microscopy Ulm University Albert-Einstein-Allee 11 89081 Ulm 0731 5023440 <a href="mailto:paul.walther@uni-ulm.de">paul.walther@uni-ulm.de</a>
Position	C3 Professor mit Leitungsfunktion
Children	Two children (27 and 28 years)



## University education, degree

Natural Science, Biology, (1975-1980) Swiss Federal Institute of Technology (ETH), Zurich

## Academic degrees

Habilitation: in Cell Biology at the ETH Zürich, Dep. Natural Science (1998)

Dr. sc. nat. at the ETH Zurich. Mentors: Martin Müller and Hans Moor (1981-1984)

## Academic Career

Since 1998	Professor at the University of Ulm (C3), Head of the Central Facility for Electron Microscopy
1992-1998	Head Assistant at the Institute of Cell Biology, ETH-Zürich
1991	Acting Associate Director of the IMR at the University of Wisconsin, Madison. The IMR is an NIH (National Institute of Health) funded national resource for special microscopic applications.
1990 - 1991	Research fellow at the IMR, Madison, WI, USA
1987 - 1990	Scientific Collaborator Max-Planck-Institute for Physiology Dortmund
1984 - 1986	Postdoc, Dep. Cell Biology, ETH Zürich

## Other

### Membership in advisory boards

2010-2013	Member of the Ernst-Ruska-Award committee
2006-2007	President of the German Society for Electron Microscopy (DGE)
2004-2005	Vice-President of the German Society for Electron Microscopy (DGE)

## Publications

- Bauer, A., Subramanian, N., Villinger, C., Frascaroli, G., Mertens, T., and Walther, P.# (2016). Megapinocytosis: a novel endocytic pathway. *Histochem. Cell Biol.* **145**, 617-27.
- Crauwels, P., Bohn, R., Thomas, M., Gottwalt, S., Jäckel, F., Krämer, S., Bank, E., Tenzer, S., Walther, P., Bastian, M., and van Zandbergen, G. (2015). Apoptotic-like Leishmania exploit the host's autophagy machinery to reduce T-cell-mediated parasite elimination. *Autophagy*. **11**, 285-297.
- Feiler, M.S., Strobel, B., Freischmidt, A., Helferich, A.M., Kappel, J., Brewer, B.M., Li, D., Thal, D.R., Walther, P., Ludolph, A.C., Danzer, K.M., and Weishaupt, J.H. (2015). TDP-43 is intercellularly transmitted across axon terminals. *J. Cell Biol.* **211**, 897-911.
- Gorb, S.N., Niederegger, S., Hayashi, C.Y., Summers, A.P., Vötsch, W., and Walther, P. (2006). Silk-like secretion from tarantula feet. *Nature* **443**, 407.
- Höhn, K., Sailer, M., Wang, L., Lorenz, L., Schneider, E.M., and Walther, P.# (2011). Preparation of cryofixed cells for improved 3D ultrastructure with scanning transmission electron tomography. *Histochem. Cell Biol.* **135**, 1-9.
- Nafeey, S., Martin, I., Felder, T., Walther, P.#, and Felder, E. (2016). Branching of keratin Intermediate filaments. *J. Struct. Biol.* **194**, 415-22.
- Romero-Brey, I., Merz, A., Chlanda, P., Chiramel, A., Lee, J.Y., Habermann, A., Hoppe, S., Kallis, S., Walther, P., Krijnse-Locker, J., and Bartenschlager, R. (2012). Three-dimensional structure and biogenesis of the membranous hepatitis C virus replication compartment. *PLOS Pathogens*. **8**, e1003056.
- Rustom, A., Saffrich, R., Markovic, I., Walther, P., and Gerdes, H.-H. (2004). Nanotubular highways for Intercellular Organelle transport. *Science*. **303**, 1007-1010.
- Villinger, C., Neusser, G., Kranz, Ch., Walther, P.#, and Mertens, T. (2015). 3D Analysis of HCMV induced-nuclear membrane structures by FIB/SEM tomography: Insight into an unprecedented membrane morphology. *Viruses*. **7**, 5686–5704
- Welsch, S., Miller, S., Romero-Brey, I., Merz, A., Bleck, C.K., Walther, P., Fuller, S.D., Antony, C., Krijnse-Locker, J., and Bartenschlager, R. (2009). Composition and three-dimensional architecture of the dengue virus replication and assembly sites. *Cell Host Microbe*. **5**, 365-75.

#Corresponding author