

## Curriculum Vitae

### Univ.-Prof. Dipl.-Ing. Dr. Sepp D. Kohlwein

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#### Personal data

Date of Birth April 15, 1954  
Place of Birth Graz, Austria  
Nationality Austria

#### University education

1977 Diploma in Technical Chemistry/Biochemistry, Graz University of Technology, Austria (c/o Fritz Paltauf)  
1982 Ph.D. thesis in Biochemistry, Graz University of Technology, Austria (c/o Fritz Paltauf)

#### Career history

1978 – 2001 Assistant Professor, Graz University of Technology, Austria  
1985 – 1986 Post-Doctoral fellow, Albert Einstein College of Medicine, Bronx, NY, USA (c/o Susan Henry)  
1989 Post-Doctoral fellow, Carnegie Mellon University, Pittsburgh, PA, USA (c/o Susan Henry)  
1992 Habilitation in Biochemistry, associate professor, Graz University of Technology, Austria  
2001 – Full Professor of biochemistry, University of Graz, Austria

#### Career related activities and memberships

1995 – 2005 Deputy director SFB Biomembranes (speaker H. Esterbauer; R.Zechner), Graz, Austria  
2000 – 07/08 Sabbatical, University of Washington, Seattle, WA, USA (c/o Stan Fields)  
2002 – 2004 Head of the Institute of Molecular Biosciences, University of Graz, Austria  
2005 – 2014 Coordinator: Lipidomics Research Center Graz  
2008/12 – 2009/03 Sabbatical, National University of Singapore, Singapore (c/o Markus Wenk)  
2013 – Coordinator: BioImaging Graz (<http://bioimaginggraz.at>)  
2014 – Co-Director: Nikon Center of Excellence for Super-resolution Microscopy – STORM  
Member of the Editorial Boards of “Current Genetics”, “Biochim. et Biophys. Acta – Mol. Cell Biol. Lipids”, “Industrial Biotechnology”

Memberships: Genetics Society of America, American Society for Biochemistry and Molecular Biology, Austrian Association of Molecular Life Sciences and Biotechnology, Photographic Society of America

#### Honors and awards

1985 Schrödinger Fellowship  
2010 Erzherzog-Johann Research Prize of the County of Styria

#### Research interests

Lipid metabolism and membrane assembly in yeast; yeast as a model of lipid-associated disorders; regulation of fatty acid, triglyceride and phospholipid metabolism; confocal and multi-photon microscopy (SHG, CARS); super-resolution microscopy, implementation of novel imaging methods to investigate membrane and organelle structure and dynamics in yeast and tissues; lipidomics

#### Current third-party funding:

DK Molecular Enzymology (2005-03/2018; Austrian Science Funds, FWF); PhD program HSRM/BioTechMed Graz (2013-); BioImaging Graz and Nikon Center of Excellence

#### Selected Recent Publications (159 total, 3 patents; [www.ncbi.nlm.nih.gov/pubmed/?term=kohlwein](http://www.ncbi.nlm.nih.gov/pubmed/?term=kohlwein))

Chauhan N, Visram MJ, Cristobal-Sarramian A, Sarkleti F, and Kohlwein SD. Morphogenesis checkpoint kinase Swe1 is the executor of lipolysis-dependent cell cycle progression. *Proc. Nat. Acad. Sci. USA*, 112(10):E1077-85 (2015)  
Hofbauer HF, Schopf FH, Schleifer H, Knittelfelder O, Pieber B, Rechberger GN, Wolinski H, Gaspar ML, Kappe CO, Stadlmann J, Mechtler K, Zenz A, Lohner K, Tehlivets O, Henry SA, and Kohlwein SD. Regulation of gene expression through a transcriptional repressor that senses acyl-chain length in membrane phospholipids. *Dev Cell* 29:1-11 (2014)  
van Zutphen T, Todde V, de Boer R, Kreim M, Hofbauer H, Wolinski H, Veenhuis M, van der Klei IJ, and Kohlwein SD. Lipid droplet autophagy in the yeast *Saccharomyces cerevisiae*. *Mol Biol Cell* 25(2):290-301 (2014)  
Kohlwein SD, Veenhuis M, van der Klei I. Lipid droplets and peroxisomes – key players in cellular lipid homeostasis. *Or: A matter of fat – store ‘em up or burn ‘em down. Genetics* 193(1): 1-50 (2013)  
Henry SA, Kohlwein SD, Carmen GM. Metabolism and Regulation of Glycerolipids in the Yeast *Saccharomyces cerevisiae*. *Genetics* 190(2):317-49 (2012)  
Kurat CF, Wolinski H, Natter K, Kaluarachchi S, Andrews B and Kohlwein SD. Cdk1/Cdc28-dependent activation of the major triacylglycerol lipase Tgl4 in yeast links lipolysis to cell cycle progression. *Mol Cell* 33:53-63 (2009)