

## Dr. Agnieszka Münster-Wandowski

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Institute of Integrative Neuroanatomy  
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### CURRICULUM VITAE

- since 2015: **Leader of Electron Microscopy (EM) Lab**, Institute of Integrative Neuroanatomy, RG Prof. Vida, Charité, Berlin
- since 2013: **Lecturer / Research Associate**, Institute of Integrative Neuroanatomy, Charité, Berlin
- 2011-2012: **Postdoctoral Research Fellow**, Institute of Integrative Neuroanatomy, Charité, Berlin (Advisors: Prof. I. Vida; Prof. G. Ahnert-Hilger)
- 2010: **Postdoctoral Research Fellow**, NeuroCure Cluster of Excellence, Charité, Berlin (Advisor: Prof. C. Rosenmund)
- 2006-2009: **Postdoctoral Research Fellow**, Institute of Integrative Neuroanatomy, Charité, Berlin, Functional Cell Biology Group
- 2002-2004: **Postdoctoral Max-Planck Fellow**, Max-Planck Institute of Molecular Plant Physiology, Potsdam-Golm, Germany, Molecular Genomics Group
- 2002: **Lecturer in Plant Cell Biology**, The University of Gdańsk, Faculty of Biology, Department of Plant Genetics and Cytology, Gdańsk, Poland
- 2001: **PhD-degree in Natural Sciences**, The Plant Breeding and Acclimatization Institute (IHAR) - National Research Institute, Radzików, Poland
- 1998-2000: **Predocotrinal Fellowship**, Zaidin Experimental Station at the Spanish High Council of Scientific Research (CSIC), Granada, Spain (Advisor: Prof. M.I. Rodríguez-García)
- 1997-2001: **PhD-studies / Assistant Lecturer**, The Plant Breeding and Acclimatization Institute (IHAR) - National Research Institute, Radzików, Poland (Advisors: Prof. A. Majewska-Sawka and Prof. M.I. Rodríguez-García)
- 1997: **Master's degree in Molecular Biology**, Nicolaus Copernicus University, Faculty of Biology, Toruń, Poland
- 1992-1997: **studies in Biology**, Nicolaus Copernicus University, Faculty of Biology, Toruń, Poland

### Honors

- 2001: Award of the High Council of National Research Institute for Plant Breeding and Acclimatization for PhD dissertation.

### Teaching

- since 2007: Charité-Universitätsmedizin Berlin
- Lecturer in histology courses for medical students
  - Lecturer in Problem-Oriented Learning (POL) for medical students
- 2002: Gdańsk-University (Faculty of Biology), Poland
- lectures of cytology and supervising of diploma-students

### Commissions

- since 2014: The doctoral committee, Charité-Universitätsmedizin Berlin

## PUBLICATIONS

**Münster-Wandowski A.**, Gómez-Lira G., Gutiérrez R. (2013) Mixed neurotransmission in the hippocampal mossy fibers. *Frontiers in Cellular Neuroscience* 7(210): 1-19.

Arancillo M., Min S-W., Gerber S., **Münster-Wandowski A.**, Wu Y-J., Rah J-C., Ahnert-Hilger G., Riedel D., Südhof TC., Rosenmund C. (2013) Titration of Syntaxin1 in mammalian synapses reveals multiple roles in vesicle docking, priming, and release probability. *The Journal of Neuroscience* 33(42): 16698–16714.

Ahnert-Hilger G., **Münster-Wandowski A.** and Höltje M. (2013) Synaptic vesicle proteins – targets and routes for botulinum neurotoxins. *Current Topics in Microbiology and Immunology* 364: 159-177.

Ahnert-Hilger G., Zander J.F., Gutiérrez R., **Münster-Wandowski A.** (2012) Co-existence of GABA and glutamate in defined neurons. *European Neuropsychopharmacology* 22: S129. DOI: 10.1016/S0924-977X(12)70156-6.

Zander JF., **Münster-Wandowski A.**, Brunk I., Pahner I., Gómez-Lira G., Heinemann U., Gutiérrez R., Laube G., Ahnert-Hilger G. (2010) Synaptic and vesicular co-existence of VGLUT and VGAT in selected excitatory and inhibitory synapses. *The Journal of Neurosciences* 30(22): 7634-7645.

Grønborg M., Pavlos NJ., Brunk I., Chua JJE., **Münster-Wandowski A.**, Riedel D., Ahnert-Hilger G., Urlaub H., Jahn R. (2010) Quantitative comparison of glutamatergic and GABAergic synaptic vesicles unveils selectivity for few proteins including MAL2, a novel synaptic vesicle protein. *The Journal of Neuroscience* 30(1): 2-12.

Höltje M., Djalali S., Hofmann F., **Münster-Wandowski A.**, Große G., Henneberger C., Grantyn R., Just I., Ahnert-Hilger G. (2009) A short C-terminal peptide of Clostridium botulinum C3 protein exerts axonotrophic activity and promotes formation of synaptic contacts. *The FASEB Journal* 23: 1115-1126.

Majewska-Sawka A., **Münster A.**, Wisniewska E. (2004) Temporal and spatial distribution of pectin epitopes in differentiating anthers and microspores of fertile and sterile sugar beet. *Plant and Cell Physiology* 45(5): 560-572.

Majewska-Sawka A. and **Münster A.** (2003) Cell wall antigens in mesophyll-derived protoplasts of sugar beet: possible implication in protoplasts recalcitrance? *Plant Cell Reports* 21(10): 946-954.

Majewska-Sawka A., Fernández M.C., M'rani M., **Münster A.**, Rodríguez-García M.I. (2002) Cell wall reformation by pollen tube-protoplasts of olive (*Olea europaea* L.): structural comparison to pollen tube wall. *Sexual Plant Reproduction* 15: 21-29.

Majewska-Sawka A., **Münster A.**, Rodríguez-García M.I. (2002) Guard cell wall: Immunocytochemical detection of polysaccharides components. *Journal of Experimental Botany* 53: 1067-1079.

Wisniewska E., **Münster A.**, H. Nakashima, Majewska-Sawka A. (2002) Sugar beet guard cells as a source of efficiently regenerating protoplasts. *Proceedings of Japanese Society of Sugar Beet Technologists* 44: 1-6.

Majewska-Sawka A., **Münster A.**, Rodríguez-García M.I. (2001) Immunocytochemical characterization of cell walls and plasma membranes from guard cells of sugar beet. *Biology of the Cell* 93(6): 345-346.

Nothnagel E.A., **Münster A.**, Majewska-Sawka A. (2000) Arabinogalactan-proteins in differentiation of gametes and somatic cells. In: Biotechnological approaches for utilisation of gametic cells, (ed. Hansen M.), European Community Press: 237-246.

**CONFERENCE PAPERS (PEER-REVIEWED)**

**Münster A.**, Majewska-Sawka A. (2000) Which factors determine the morphogenic response of leaf-derived cells in vitro? *Acta Biologica Cracoviensia, Series Botanica* 42(1): 26.

**Münster A.**, Majewska-Sawka A., Alche J.D. (1998) Identification of arabinogalactan-proteins (AGPs) in sugar beet suspension cultures. *Folia Morphologica* 57: 43.

**INVITED TALK**

**Münster-Wandowski A.**, Zander I.F., Gutiérrez R., Heinemann U., Ahnert-Hilger G. Variability of a glutamatergic and GABAergic phenotype in selected synapses. September 22th 2012 / Italian Physiological Society, Verona, Italy