

## Curriculum Vitae

### PERSONAL INFORMATION

Nationality: German  
Date of birth: 17.07.1969  
Place of birth: Rosario, Argentina  
Children: one daughter (born 02.10.2015)  
vero.maurino@uni-bonn.de

### CURRENT POSITION

**Professor**, Head of the Department of Molecular Plant Physiology, IZMB, University of Bonn.

### EDUCATION AND ACADEMIC DEGREES

2009 Habilitation and *venia legendi* in Botany, University of Cologne, Germany.  
1997 Doctoral degree (PhD), Faculty of Biochemical and Pharmaceutical Sciences, University of Rosario, Argentina.  
1992 Diploma in Biochemistry, Faculty of Biochemical and Pharmaceutical Sciences, University of Rosario, Argentina.

### PROFESSIONAL BACKGROUND

2019 Professorin (W2), Head of the Department of Molecular Plant Physiology, IZMB, University of Bonn.  
2018-19 Heisenberg Fellow and Independent Research Group Leader, Heinrich-Heine-University Düsseldorf & CEPLAS Cluster of Excellence in Plant Sciences.  
2016-18 Interim Professor (Vertretungsprofessorin für Botanik, W2), University of Cologne.  
2011-16 Heisenberg Fellow and Independent Research Group Leader, Heinrich-Heine-University Düsseldorf & CEPLAS Cluster of Excellence in Plant Sciences. *Break due to maternity leave: 2015-2016.*  
2006-11 Independent Research Group Leader. Department of Botany, University of Cologne.  
2005-06 Visiting scientist – two months stint each year – at the Department of Biochemistry, University of Rosario, Argentina. DAAD-PPP Argentine-PROALAR cooperation.  
2003-05 Own position (“*Eigene Stelle*”; MA2379/2-1, 2-2) from the DFG.  
2001 Visiting scientist – one-month stint – at the Microbiology Laboratory, Department of Biology, University of Athens, Greece.  
2000-03 Research Associate. Department of Botany, University of Cologne.  
1998-00 Alexander von Humboldt Research Fellow. Department of Botany, University of Cologne.  
1997-98 Postdoctoral Fellow. Centre for Photosynthetic and Biochemical Studies (CEFOBI), University of Rosario, Argentina.  
1995-97 Visiting scientist – five months in total – at the Department of Biophysics, University of Osnabrück. Financed by VolkswagenStiftung.  
1993-96 Doctoral Fellow. CEFOBI, University of Rosario, Argentina.

### PERSONAL HONORS, FELLOWSHIPS, AND AWARDS

2014 *Heisenberg Fellowship* from the DFG (MA2379/9-2).  
2011 *Heisenberg Fellowship* from the DFG (MA2379/9-1).  
2011 Appointed as “*Exzellente Wissenschaftlerin*“ by AcademiaNet, Robert-Bosch-Stiftung.  
2009 American Society of Plant Biologists *Top Author* (2004-2008).  
2006 *Lise-Meitner Fellowship* from the “Ministerium für Innovation, Wissenschaft und Forschung des Landes NRW”.  
2003-05 Own position (“*Eigene Stelle*”; MA2379/2-1, 2-2) from the DFG.  
2001-03 Research Fellowship from the DFG (MA2379/1-1).  
1998-00 Research Fellowship from the *Alexander von Humboldt-Foundation*.

- 1997-98 Postdoctoral Fellowship from the National Research Council of Argentina (CONICET).
- 1993-97 Doctoral Fellowship from the CONICET.
- 1998 Certificate of Merit, Amersham Pharmacia Biotech and Science price for young scientists.
- 1992 First Prize of the Biology Society of Rosario for the best work in biomedicine.
- 1992 Pre-Graduate Scholarship to initiate a research program, University of Rosario, Argentina.

#### TEN MOST IMPORTANT PUBLICATIONS (full publication list:

<https://scholar.google.de/citations?user=jJUrtqIAAAAJ&hl=de>)

1. Hüdig M, Tronconi MA, Zubimendi JP, Sage TL, Poschmann G, Bickel D, Gohlke H, and **Maurino VG** (2022) Respiratory and C<sub>4</sub>-photosynthetic NAD-malic enzyme coexist in bundle sheath cells mitochondria and evolved via association of differentially adapted subunits. **Plant Cell** 34, 597-615.
2. Sewelam N, Brillhaus D, Bräutigam A, Alseekh S, Fernie AR, and **Maurino VG** (2020) Molecular plant responses to combined abiotic stresses put a spotlight on unknown and abundant genes. **J. Exp. Bot.** 71, 5098–5112.
3. Bovdilova A, Alexandre BA, Höppner A, Luis IM, Alvarez CE, Bickel D, Gohlke H, Decker C, Nagel-Steger L, Alseekh S, Fernie AR, Drincovich MF, Abreu IA and **Maurino VG** (2019) Posttranslational modification of the NADP-malic enzyme involved in C<sub>4</sub> photosynthesis fine-tunes the enzymatic activity during the day. **Plant Cell** 31, 2525-2539.
4. Alvarez CE, Bovdilova A, Höppner A, Wolff C-C, Saigo M, Trajtenberg F, Zhang T, Buschiazzo A, Nagel-Steger L, Drincovich MF, Lercher MJ and **Maurino VG** (2019) Molecular adaptations of NADP-malic enzyme for its function in C<sub>4</sub> photosynthesis in grasses. **Nature Plants** 5, 755-765.
5. Schmitz J, Dittmar IC, Brockmann JD, Schmidt M, Hüdig M, Rossoni AW and **Maurino VG** (2017) Defense against reactive carbonyl species involves at least three subcellular compartments where individual components of the system respond to the cellular sugar status. **Plant Cell** 29, 3234-3254.
6. Welchen E, Schmitz J, Fuchs P, García L, Wagner S, Wienstroer J, Schertl P, Braun HP, Schwarzländer M, Gonzalez DH and **Maurino VG** (2016) D-Lactate dehydrogenase links methylglyoxal degradation and electron transport through cytochrome C. **Plant Physiol.** 172, 901-912.
7. Strand DD, Livingston AK, Satoh-Cruz M, Froehlich JE, **Maurino VG**, Kramer DM (2015) Activation of cyclic electron flow by hydrogen peroxide in vivo. **PNAS** 112, 5539-5544.
8. Sewelam N, Jaspert N, Van Der Kelen K, Tognetti VB, Schmitz J, Frerigmann H, Stahl E, Zeier J, Van Breusegem F, and **Maurino VG** (2014) Spatial H<sub>2</sub>O<sub>2</sub> signaling specificity: H<sub>2</sub>O<sub>2</sub> from chloroplasts and peroxisomes modulates the plant transcriptome differentially. **Mol. Plant** 7:1191-1210.
9. Esser C, Kuhn A, Groth G, Lercher MJ, and **Maurino VG** (2014) Parallel diversification of glycolate oxidase into long-chain 2-hydroxy acid oxidases in plants and animals. **Mol. Biol. Evol.** 31, 1089-1101.
10. Voll LM, Zell MB, Engelsdorf T, Saur A, Gerrard Wheeler M, Drincovich MF, Weber APM and **Maurino VG** (2012) Loss of cytosolic NADP-malic enzyme 2 in Arabidopsis is associated with enhanced susceptibility towards Colletotrichum higginsianum. **New Phytol.** 195, 189-202.

#### PATENTS GRANTED

1. Lara MV, **Maurino VG**, Andreo CS, Drincovich MF (2015) Method to induce growth and/or early flowering in plants. AR072885B1 (www.inpi.gob.ar)
2. **Maurino VG** and Flügge U-I (2008) Means for improving agrobiological traits in a plant by providing a plant cell comprising in its chloroplasts enzymatic activities for converting glycolate into malate. EP08151759.1-1212
3. Flügge U-I and **Maurino VG** (2008) Improving salt tolerance. A plant cell comprising enzymatic activities for converting glyoxylate to glycerate. EP08160030.6-2405

#### ENGAGEMENTS FOR THE SCIENTIFIC COMMUNITY

- Mentoring of Dr. Simone Schmittgen, INRES, Horticultural Science Department, 2017-18, MeTra-Programm, University of Bonn.
- Participation at the seminar modules “Managementprogramm für Professorinnen und weibliche Führungskräfte“, 2018, University of Cologne.
- Associate Editor of Journal of Plant Physiology
- Research Topic Editor “On the diversity of roles of organic acids” in *Frontiers in Plant Physiology*.
- Reviewer for the scientific journals: *Plant Cell*, *Nature Plants*, *Nature Chem Biol*, *PLoS Biol.*, *Plant Physiol.*, *Plant J.*, *J. Exp. Bot.*, *Plant Cell & Environ.*, *J. Biol. Chem.*, *Plant Mol. Biol.*, etc.
- Reviewer of ERC Advanced Grants and projects for the DFG.
- Member of the “German Plant Mitochondria Initiative”.
- Organization of the 8<sup>th</sup> Symposium of the German Plant Mitochondrion Initiative - Plant Mitochondria in New Light, funded by CEPLAS and the German Botanical Society (DBG). 2018, Düsseldorf.

### **OUTSIDE WORK**

I am fitness and yoga instructor since 1999.