

## PD Dr. Veronica Graciela Maurino, Heisenberg-Fellow

Plant Molecular Physiology and Biotechnology  
Cluster of Excellence in Plant Sciences  
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### Curriculum Vitae

#### PERSONAL INFORMATION

Nationality: German

Date of birth: 17.07.1969

Place of birth: Rosario, Argentina

#### CURRENT POSITION

**Research Group Leader, Heisenberg fellow, Plant Molecular Physiology and Biotechnology Group, Institute for Plant Development and Molecular Biology & CEPLAS Cluster of Excellence in Plant Sciences, Heinrich-Heine-University, 40225 Düsseldorf, Germany.**

#### EDUCATION AND ACADEMIC DEGREES

- 2009 Habilitation and *venia legendi*, University of Cologne, Germany. Habilitation thesis: "*Hydrogen peroxide and malate degradation as bottlenecks of a biotechnological approach to enhance carbon assimilation in C<sub>3</sub>-plants: Short-circuiting photorespiration*". Reviewers: Prof. Dr. Wolf B. Frommer and Prof. Dr. Norbert Sauer.
- 1997 Doctoral degree (PhD) in Biochemistry, Faculty of Biochemical and Pharmaceutical Sciences, University of Rosario, Argentina. Doctoral thesis: "*NADP-Malic Enzyme Isoforms. Study of the expression in photosynthetic and non photosynthetic tissues of C<sub>3</sub> and C<sub>4</sub> plants*".
- 1992 Diploma in Biochemistry, Faculty of Biochemical and Pharmaceutical Sciences, University of Rosario, Argentina.
- 1986 University-entrance-diploma in physics and mathematics, Colegio de la Sagrada Familia, Rosario, Argentina.

#### PROFESSIONAL BACKGROUND

- since 2011 Heisenberg Fellow and Independent Research Group Leader, Heinrich-Heine-University Düsseldorf, Germany.
- 2007-11 Independent Research Group Leader. Department of Botany, University of Cologne, Germany.
- 2005-06 Two months stint each year at the Department of Biochemistry, University of Rosario, Argentina. DAAD-PPP Argentine-PROALAR cooperation.
- 2001 One month stint at the Microbiology Laboratory, Department of Biology, University of Athens, Greece. Mentor: Prof. Dr. George Diallinas.
- 2000-06 Research Associate. Department of Botany, University of Cologne, Germany.
- 1998-00 Alexander von Humboldt Research Fellow. Department of Botany, University of Cologne, Germany. Mentor: Prof. Dr. Ulf-Ingo Flügge.

- 1997-98 Postdoctoral Fellow. Department of Biochemistry, University of Rosario, Argentina.
- 1995-97 Three and two months stint, respectively, at the Department of Biophysics, University of Osnabrück, Germany. Financed by VolksWagen-Stiftung. Mentor: Prof. Dr. Richard Wagner.
- 1993-96 Doctoral Fellow. Department of Biochemistry, University of Rosario, Argentina. Mentor: Prof. Dr. Carlos Andreo.

## PERSONAL HONORS, FELLOWSHIPS, AND AWARDS

- 2011 *Heisenberg Fellowship* from the DFG (MA2379/9-1 and -2).
- 2011 Appointed as “*Excellente 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 scientist.
- 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.

## EXTERNAL FUNDING

### Current funding

- 2015-17 DFG (MA2379/11-2) *Deciphering the role of H<sub>2</sub>O<sub>2</sub>-signaling originating from different cellular compartments and cell types.*
- 2015-17 DFG-CEPLAS (Cluster of Excellence on Plant Sciences): *Transforming Arabidopsis plants towards C<sub>4</sub> metabolism.* (Joint project with Prof. Dr. M. Lercher).
- 2013-17 7th Framework Programme Cooperation (FP7-289582) 3to4: *Converting C<sub>3</sub> to C<sub>4</sub> photosynthesis for sustainable agriculture.* European Commission.
- 2013-17 DFG-CEPLAS: *Alterations to the regulation of C<sub>4</sub> enzymes.*
- 2012-15 DFG (FOR 1186, MA2379/7-2) *The impact of short-cutting photorespiration on carbon and nitrogen metabolism.*
- 2012-15 DFG (MA2379/8-2) *Plant dicarboxylic acid homeostasis: on the specific physiological role of enzymes involved in malate decarboxylation.*

### Previous funding

- 2011-14 DFG (MA2379/11-1) *Deciphering the role of H<sub>2</sub>O<sub>2</sub>-signaling originating from different cellular compartments and cell types.*
- 2013-14 Cooperative research grant DAAD-PROALAR (Argentina): *Studies on the link of methylglyoxal degradation to the tricarboxylic acid cycle and the electron transport chain through mitochondrial D-Lactate dehydrogenase.*

- 2009-12 DFG (FOR 1186, MA2379/7-1) *The impact of short-cutting photorespiration on carbon and nitrogen metabolism.*
- 2009-12 DFG (MA2379/8-1) *Plant dicarboxylic acid homeostasis: on the specific physiological role of enzymes involved in malate decarboxylation.* Volume 250,000 EUR.
- 2009-11 BASF Plant Science. *Optimierung von Nutzpflanzen durch Verringerung von Photorespiration.*
- 2007-09 DFG (MA2379/4-1) *A genetic engineering approach to improve the carbon fixation in C<sub>3</sub> plants by reducing the flux through the photorespiratory pathway. Consequences of the expression of novel activities in chloroplasts of A. thaliana.*
- 2006-07 DFG (MA2379/3-1) *A biotechnological approach to increase carbon assimilation in C<sub>3</sub>-plants.*
- 2003-05 DFG (MA2379/2-1 and 2-2) *Re-cycling of glycolate in C<sub>3</sub>-chloroplast: Biochemical and physiological effects on plant metabolism.*

## **PATENTS**

**Maurino VG** and Flüge 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

Flüge U-I and **Maurino VG** (2008) Improving salt tolerance. A plant cell comprising enzymatic activities for converting glyoxylate to glycerate. EP08160030.6-2405

PD Dr. Veronica G. Maurino  
Düsseldorf, 26. March 2015