

## M. Luciana Rosso

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### EDUCATION

**-Ph.D.** Plant Science, Plant Pathology Department, University Of Arkansas. Fayetteville, AR.

Advisor: Dr. John Rupe.

Graduation: May, 2007.

**Dissertation:** Genetic Resistance in Soybean to *Pythium* Damping-off and Molecular Characterization of *Pythium* Population Dynamics in Arkansas.

**-M.S. Licenciada en Ciencias Biológicas**, (Licentiate in Biological Sciences); University of Buenos Aires, Faculty of Natural and Exact Sciences, Argentina.

Advisors: Dr Maria Delia Bertoni and Dr. Marta Maier.

Graduation: August, 1999.

**Thesis:** "Trichothecene production by the fungal Epibiont of *Baccharis coridifolia*".

### PROFESSIONAL EXPERIENCE

#### Research Experience

- 11/07-Present     **Researcher Assistant**, Soybean Breeding and Genetics Lab, Latham Hall, Crop and Soil Environmental Sciences Department, Virginia Polytechnic Institute and State University.  
Director: Dr. Katy Martin Rainey.
- 06/07-08/07     **Researcher Associate**, Plant Science Building, Plant Pathology Department, University of Arkansas. Project-Subject: "Molecular Characterization of soybean rust spores recovered from slides from spore traps". Project funded by Syngenta.  
Director: Dr. John Rupe.
- 01/02-05/07     **PhD Program**, Dissertation: "Genetic Resistance in Soybean to *Pythium* Damping-off and Molecular Characterization of *Pythium* Population Dynamics in Arkansas", Plant Science Program. Plant Pathology Department, University of Arkansas.
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- 2001                    **Researcher**, Biology Department and Organic Chemistry Department, Faculty of Natural and Exact Sciences, University of Buenos Aires, Argentina. Project: “Natural bioactive lipids and synthetic lipids: structural elucidation, conformational analysis and the evaluation of the antiviral and anti-tuberculosis activity” – UBACyT: X032. Subject: “Isolation of Lichenic Mycobionts and characterization of metabolites produced in culture”. Director: Dr. Marta S. Maier, Co-Director: Dr. M. Delia Bertoni.
- 09/99-12/00           **Researcher**, Biology Department and Organic Chemistry Department, Faculty of Natural and Exact Sciences, University of Buenos Aires, Argentina. Projects: “The study of the symbiosis between fungi and autotrophic organisms” – UBACyT : TX-59 CONICET: PIP 4492/96. Subject: “Isolation of Lichenic Mycobionts and characterization of metabolites produced in culture”. Director: Dr. M. Delia Bertoni, Co-Director: Dr. Marta S. Maier.
- 03/97-08/99           **Thesis research**, Biology Department and Organic Chemistry Department, Faculty of Natural and Exact Sciences, (UBA) University of Buenos Aires, Argentina. Project: “The study of the symbiosis between fungi and autotrophic organisms” – UBACyT : TX-59 CONICET: PIP 4492/96. Subject: “Trichothecene production by the fungal Epibiont of *Baccharis coridifolia*”. Advisor: Dr. M. Delia Bertoni, Co-Advisor: Dr. Marta S. Maier.

### Teaching Experience

- Invited Co-Instructor:** “Second International Workshop for the Morphological and Molecular Identification of the Straminipiles: *Phytophthora* and *Pythium*”. 21-26 May, 2006. North Carolina State University, Department of Plant Pathology. Organized by Plant Pathogen Identification Laboratory (PIPL), Raleigh, North Carolina, USA.
- Invited Co-Instructor:** "Strengthening the Basis for a Survey of the Straminipiles: *Phytophthora* and *Pythium* in the Americas and Beyond." 27 May, 2006. North Carolina State University, Department of Plant Pathology and Plant Pathogen Identification Laboratory (PIPL), Raleigh, North Carolina, USA.
- Teaching Assistant:** Plant Pathogenic Fungi (3-credit graduate course). University of Arkansas, Fall 2005.
- Teaching Assistant:** Botany (3-credit undergraduate course). University of Buenos Aires. 1998 to 2001.
- Teaching Assistant:** Phytopathology and Phycology. (3-credit undergraduate and graduate courses). University of Buenos Aires. 1998 to 2000.

## REFEREED PUBLICATIONS

- M.L. Rosso, J.C. Rupe, P. Chen, L. Mozzoni.** Inheritance and genetic mapping of resistance to Pythium damping-off caused by *Pythium aphanidermatum* in Archer soybean. Submitted for revision to Crop Science .
- M.L. Rosso, M. S. Maier and M. D. Bertoni.** “Trichothecenes Production by the Hypocrealean Epibiont of *Baccharis coridifolia*” *Plant Biology*.2 (6), 684 (2000).
- M.L. Rosso, M.S. Maier and M.D. Bertoni.** “Macrocytic Trichothecene Production by the Fungus Epibiont of *Baccharis coridifolia*” , *Molecules* 2000 5, 348-349.
- C. C. García, **M. L. Rosso**, M. D. Bertoni, M. S. Maier and E. B. Damonte. “Evaluation of the antiviral activity against Junin virus of macrocytic trichothecenes produced by the hypocrealean epibiont of *Baccharis coridifolia*”. *Planta Médica* 68, 209-212 (2002).
- M.L. Rosso, M.D. Bertoni, M.T., Adler, and M.S., Maier.** “Antraquinones from the cultures lichen mycobionts of *Teloschistes exilis* and *Caloplaca erythrantha*”. *Biochem. Syst. Eco.* 31 (10), 1197-1200 (2003).
- M. T. Adler, A., Fazio, M. D. Bertoni , **M.L. Rosso**, M. S. Maier and Arne Thell. “Culture experiments and DNA verification of a mycobiont isolated from *Puctelia subpraesignis* (Parmeliaceae)”. *Contributions to Lichenology. Bibliotheca Lichenologica.* 88: 1-8 (2004).

## ABSTRACTS AND PRESENTATIONS

- M.L. Rosso, J.C. Rupe, L.A. Mozzoni, C.S. Rothrock, P. Chen.** Inheritance and genetic mapping of resistance to *Pythium* damping-off caused by *Pythium aphanidermatum* in soybean cultivar Archer. APS Annual Meeting 2007. July 28<sup>th</sup> to Aug 1<sup>st</sup>, 2006. San Diego, California, USA. *Phytopathology* 97:S101.
- M.L. Rosso, J.C. Rupe, C.S. Rothrock, P. Chen.** Inheritance and Genetic Mapping of Resistance to *Pythium* Damping-off caused by *Pythium aphanidermatum* in soybean cultivar Archer. 34<sup>th</sup> Annual Meeting of the Southern Soybean Disease Workers. February 18-19, 2007 St. Louis, MO, USA.
- M. L. Rosso, J. C. Rupe, F. N. Martin, C. C. Rothrock.** Molecular identification of *Pythium* spp. isolated from soybean fields in Arkansas. APS Annual Meeting 2006. July 29<sup>th</sup> to Aug 2<sup>nd</sup>, 2006. Quebec City, Canada. *Phytopathology* 96:S100.

- M. L. Rosso**, J.C. Rupe, C.S. Rothrock. Resistance of soybean cultivars to *Pythium* damping-off and root rot based on *Rps* 1k gene. APS Annual Meeting 2005, July 30<sup>th</sup> to Aug 3<sup>rd</sup>, 2005. Austin, Texas, USA. *Phytopathology* 95:S90.
- M.L. Rosso**, J.C. Rupe, C.S. Rothrock, M.T. Kirkpatrick, R. Cartwright, C. Tingle, M. Poop, and S.A. Winters. Effect of Fungicide Seed Treatment and Seed Quality on Soybean Stand and Yield in Arkansas. APS Southern Division Meeting 2005. February 6<sup>th</sup> to 8<sup>th</sup>, 2005, Little Rock, Arkansas, USA.
- S. L. Giammaria, **M. L. Rosso**, J. C. Correll, and J. C. Rupe. Pathogenicity, mitochondrial DNA RFLPs, and colony morphology comparisons of isolates of *Fusarium virguliforme* and *F. tucumaniae* capable of causing SDS of soybean. APS Annual Meeting, 2004. July 31<sup>st</sup> to Aug 4<sup>th</sup>, 2004. Anaheim, California, USA. *Phytopathology* 94:S34.
- C.S. Rothrock, J.C. Rupe, M.T. Kirkpatrick, G.D. Bates, **M.L. Rosso**, C.B. Borger, S.A. Winters. Use of resistance and fungicides in the control of seedling diseases of soybean over diverse environments in Arkansas. VII World Soybean Research Conference. February 29 to March 5, 2004. Foz do Iguassu, PR, Brazil.
- M.L. Rosso**, C. Boger, G. Bates, C. Rothrock, T. Kirkpatrick, and J. Rupe. Effect of fungicide seed treatment on soybean establishment. APS Southern and Caribbean Divisions Meeting. April 6 to 11, 2003. South Padre Island, Texas, USA.
- M.L. Rosso**, C. Boger, G. Bates, C. Rothrock, T. Kirkpatrick, and J. Rupe. Effect of fungicide seed treatment on soybean establishment. Southern Soybean Disease Workers Meeting 2003. March 2<sup>nd</sup> to 3<sup>rd</sup>, 2003, Little Rock, Arkansas, USA.
- Maier, M.S., **Rosso, M.L.**, Bertoni, M.D. y Adler, M.T. "Triterpenoides novedosos del liquen *Pyxine berteriana*" , XIV Simposio Nacional de Química Organica, Rosario, Santa Fe, 9th to 12th November, 2003.
- M.T. Adler, A. Fazio, M.D. Bertoni, **M.L. Rosso**, Maier, M.S. and A. Thell. "Estudio del cultivo y verificación por técnicas de DNA de un micobionte aislado de *Punctelia subpraesignis* (Parmeliaceae: Ascomycota liquenizado)" . XXIX Jornadas Argentinas de Botánica y XV Reunion Anual de la sociedad Botánica de Chile, San Luis, 19th to 23rd October, 2003.

**Rosso, M. L.**, Bertoni, M. D., Adler, M. T. y Maier, M. S. “ Produccion de Parietina por el micobionte liquenico de *Teloschistes exilis*”, XIII National Symposium of Organic Chemistry, organized by Sociedad Argentina de Investigación en Química Orgánica – SAIQO. 11<sup>th</sup> to 14<sup>th</sup> November, 2001. Córdoba, Argentina.

**Rosso, M.L.**, García, C.C., Bertoni, M.D., Damonte, E.B., and Maier, M.S. “Macrocyclic Trichothecene Production by the Fungus Epibiont of *Baccharis coridifolia* and the evaluation of the antiviral activity against Junin virus”, III Latin American Mycotoxicology Congress, organized by Sociedad Latinoamericana de Micotoxicología and de National University of Río Cuarto, Argentina. 6<sup>th</sup> to 10<sup>th</sup> November, 2000. Los Cocos, Córdoba, Argentina.

**M.L. Rosso**, M.S. Maier and M.D. Bertoni. “Macrocyclic Trichothecene Production by the Fungus Epibiont of *Baccharis coridifolia*”, XII National Symposium of Organic Chemistry, organized by Sociedad Argentina de Investigación en Química Orgánica – SAIQO. 14<sup>th</sup> to 17<sup>th</sup> November, 1999. Los Cocos, Córdoba, Argentina.

#### SCIENTIFIC EVENTS ATTENDANCE

First International Workshop for the Morphological and Molecular Identification of the Straminipiles: *Phytophthora* and *Pythium*. 23–27 July 2004. North Carolina State University, Department of Plant Pathology. Organized by Plant Pathogen Identification Laboratory (PIPL), Raleigh, North Carolina, USA.

“Biotechnology in National Congress”, organized by Foro Argentino de Biotecnología. August 1997. Buenos Aires, Argentina.

“First Meeting about Anatomy of Superior Plants”, organized by Sociedad Argentina de Botánica. November 1997. Buenos Aires, Argentina.

“Lecture on Plants Biology”, organized by IFEVA, Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), INGEBI, ISPMB, Faculty of Natural and Exact Sciences, University of Buenos Aires, Faculty of Agronomy, University of Buenos Aires. November 1998. Buenos Aires, Argentina.

#### AWARDS AND HONORS

**Gamma Sigma Delta Annual Competition 2007. 2<sup>nd</sup> Place. Oral Presentation.** “Inheritance and Genetic Mapping of Resistance to *Pythium* Damping-off caused by *Pythium aphanidermatum* in soybean cultivar Archer”

**Gamma Sigma Delta Annual Competition 2007. 2<sup>nd</sup> Place. Poster Presentation.** “Molecular identification of *Pythium* spp. isolated from soybean fields in Arkansas”

**Outstanding PhD Scholar Awards 2005** Plant Pathology Department, Dale Bumper College, University of Arkansas.

**Internal Post-Graduate Scholarship-** Council of Scientific and Technological Research (Consejo de Investigaciones Científicas y Técnicas- CONICET- Argentina). Aim of the studies: “Isolation of Lichenic Mycobionts and characterization or metabolites produced in culture”.2001-2003.

## **ACADEMIC SERVICE**

**Volunteer:** Plant Pathology Graduate Student Diagnostic Service, Farmers Market, Fayetteville, AR, 2005, 2006 and 2007.

**Treasurer:** University of Arkansas Plant Pathology Graduate Student Association 2003-2004.

## **LANGUAGES**

**Spanish** native language

**English** Fluent

**French** Basic

## **PROFESSIONAL AFFILIATIONS**

The American Phytopathological Society (APS)

Plant Pathology Graduate Student Association University of Arkansas

Sociedad de Micología “Carlos Spegazzini”-Argentina.

Sociedad Argentina de Investigación en Química Orgánica (SAIQO).