

Amancio José de Souza

Curriculum Vitae



Personal Data

Birth Date 12/05/1978 Age 31

Profession Agronomist

Civil status Married

Professional Address

EBI - Energy Bioscience Institute

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Education

- Currently a Graduate Student, pursuing a Ph.D. Degree from the Plant and Microbial Biology Department at UC Berkeley. Advisor: Dr. Markus Pauly. Research focus: plant cell walls. (Spring 2010 – present)
- MSU – DOE Plant Research Laboratory Graduate Assistant, pursuing a Ph.D. Degree in Genetics from Michigan State University. Advisor: Dr. Markus Pauly. Research focus: plant cell walls. (Fall 2008 – Fall 2009)

Lab rotations at Michigan State University (MSU)

Dr. Markus Pauly Lab, cell wall molecular biology (visiting scholar), Spring 2008, MSU.

Dr. Barry Williams Lab, Yeast genetics, Fall 2008, MSU.

Dr. Michael Garavito, Protein crystallography, Winter / Spring 2008 – 2009, MSU.

Joined the Pauly Lab, Spring 2009, MSU.

- Visiting Scholar at the MSU – DOE Plant Research Laboratory, Michigan State University. Advisor: Dr. Markus Pauly. (3 months, Spring 2008)
- Masters Degree in Agronomy, emphasis in Phytotechnology, University of São Paulo – USP, SP, Brazil. Advisor: Francisco de Assis Alves Mourão Filho. (Spring 2006 – Summer 2008)

Dissertation title: Reaction to *Citrus tristeza virus* (CTV) infection of transgenic ‘Hamlin’ sweet orange (*Citrus sinensis* (L.) Osbeck) plants transformed with CTV genetic sequences.

Key words: Biotechnology, Transgenic, Citrus and CTV.

- Post graduation course (*Lato Sensu*), Forage Management – Uberaba College of Agronomy and Zootechny – FAZU. (Concluded in 14/12/2002)
- Bachelor in Agronomic Engineering by the Federal University of Bahia – UFBA, School of Agronomy. (Graduated, 01/09/2001)
- International Internship in sustainable agriculture research - Escuela de Agricultura de la Región Tropical Húmeda (EARTH), Costa Rica. (09/1999 - 03/2000)
- Cultural Exchange, Youth for Understanding (YFU), Rancho Cotate High School, Rohnert Park, California, EUA. (August 1994 - July 1995)
- Colégio Anchieta, High School. (1992 – 1995)
- Pan American School of Bahia, Middle and Elementary Schools. (1982 –1992)

Languages

- English – Verbal fluency, excellent reading and writing skills. Certificate of proficiency in English language awarded by the University of Michigan (30/11/1996). TOEFL IBT – 108 (out of 120 possible points).
- Spanish – Verbal fluency and good reading skills (six months in Costa Rica as a college intern).
- Portuguese – Native Language

Professional Experience

- Employed as an Agribusiness Technician in SEBRAE (Brazilian Aid Service For Small Businesses) from 01/03/2002 to 12/2010. Planning, coordination and management of project funds aimed towards small business technical and marketing training in the agronomical context, Bahia, Brazil.
- - Team Leader for SEBRAE's State Fruit Horticultural Project, budget: US\$ 560.000,00 (2005)
- - Team Leader for SEBRAE's State Milk Project, budget: US\$ 60.000,00 (2004)
- Consultant in the area of Pasture and Forage Management and Cattle Ranching, (2002 – 2005).
- Experience as Cattle Rancher and Bee Keeper, (2002 – 2006).

Trainee Experiences

- Trainee at V & S Engenheiros Consultores S/C (environmental consulting), Bahia, Brazil, (04/01/2002 - 15/02/2002).
- Trainee at Agripalm Ltda. (tropical flowers, production), Bahia, Brazil, (11/2000 - 01/2001).
- Surveyor (field data collector) for land redistribution projects, SIPRA 2000, DESAGRO/INCRA-Ba Foundation, Bahia, Brazil, (07/10/2000 - 07/11/2000).
- International internship in sustainable agriculture research - Escuela de Agricultura de la Región Tropical Húmeda (EARTH), Costa Rica, (09/1999 - 03/2000).
- Trainee in Virology, EMBRAPA - CNPMF, Cruz das Almas, Brazil, (03/1999 - 08/1999).

Teaching Experience

- Teacher assistant for the class: Principles of Genetics (ZOL341) at Michigan State University, In charge of 2 recitation sections for approximately 60 students, Fall 2009.

Co - Mentoring

- Eddie Lam, Undergraduate at UC Berkeley, Pauly Lab, Spring 2010, Independent research project resulting in poster presentation.

- Gary Gao, Undergraduate at UC Berkeley, Pauly Lab, Spring 2010, Independent research project resulting in poster presentation.
- Thomas Thomik, Undergraduate at University of Kassel, Germany, Pauly Lab, Fall 2009, Independent research project part of current Ph.D. thesis.
- Lewis Messner, Undergraduate at Michigan State University, Pauly Lab, Fall 2009, undergraduate helper.
- Melina Turini, Undergraduate at University of São Paulo ESALQ, Mourão Filho Lab, Fall 2007, independent research project resulting in a poster presentation (see Abstract section)

Publications

SOUZA, A. J. de; MENDES, B. M. J.; MOURAO FILHO, F. de A. A. Gene silencing: concepts, applications, and perspectives in woody plants. *Scientia. Agricola (Piracicaba, Braz.)*, vol.64, n.6, p. 645-656. 2007. (ISSN 0103-9016).

Abstracts in Scientific Events

KRAEMER, F. J.; GÜNL, M.; NEUMETZLER, L.; SOUZA, A. J. DE; YAMAUCHI, K.; BURGERT, I.; OBEL, N.; PAULY, M. Identification and Characterization of a Novel Arabidopsis Hemicellulose Mutant. PRL Review, East Lansing, August 2008.

KRAEMER, F. J.; GÜNL, M.; NEUMETZLER, L.; SOUZA, A. J. DE; YAMAUCHI, K.; BURGERT, I.; OBEL, N.; PAULY, M. Identification and Characterization of a Novel Arabidopsis Hemicellulose Mutant. The Pan American Congress on Plants and BioEnergy, Merida, Mexico, July 2008.

SOUZA, A. J. de; STIPP, L. C. L.; FREITAS JUNIOR, W.; SCHINOR, E. H.; STACH-MACHADO, D. R.; HARAKAVA, R.; MENDES, B. M. J.; MOURÃO FILHO, F. de A. A. REAÇÃO À INFECÇÃO PELO Citrus tristeza virus (CTV) EM PLANTAS TRANSGÊNICAS DE LARANJA HAMLIN TRANSFORMADAS COM SEQÜÊNCIAS DO GENOMA DO CTV. In: XI Congresso Brasileiro de Fisiologia Vegetal, 2007, Gramado. *Brazilian Journal of Plant Physiology*, v. 19, 2007.

TURINI, M. G. S.; MOURÃO FILHO, F. de A. A.; SOUZA, A. J. de; MENDES, B. M. J. . Enraizamento de folhas de citros. In: 15º Simpósio Internacional de Iniciação Científica, 2007.

SOUZA, A. J. de, SANTOS, A. R. dos, TABORA, P. Estudo das mudanças na fertilidade de solos manejados organicamente In: XIII Reunião Brasileira de Manejo e Conservação do Solo e da Água, 2000, Ilhéus.

SOUZA, A. J. de, SANTOS, A. R. dos, TABORA, P. Estudo de três diferentes coberturas mortas (trançado de Musa textiles, Capim Santo, e folhas sem espinho de Pupunha) para práticas de agricultura orgânica In: VI Encontro Regional de Agricultura Alternativa, 2000, Fortaleza.

Lab Experience

- Ph.D.: General molecular biology techniques (2008 – present)
 - GFP tagging and confocal localization experiments
 - Tobacco *Agrobacterium* infiltration for transient plant transformation
 - Cell wall saccharification platforms
 - General *Arabidopsis thaliana* lab techniques (crossing)
 - Yeast Genetics, transformation and PCR directed mutagenesis (10 week rotation in Dr. Barry Williams Lab, MSU)
 - Protein techniques: purification, western blotting, and crystallization (10 week rotation in Dr. Michael Garavito's Lab, MSU)
- Masters: Nucleic acid analysis (2006 – 2008).
 - DNA and RNA extraction, purification, and electrophoresis
 - PCR
 - RT-PCR
 - Southern Blotting
 - ELISA
 - Western Blotting
 - Protein Electrophoresis
 - Green House activities
 - Transmission electron microscopy
- College: (1999-2000).
 - ELISA
 - Soil Chemical Analysis (Costa Rica)
- High School: Basic lab training (1993).

Lectures

- SOUZA, A. J. de. Transformação Genética de Plantas para Resistência a Vírus (Plant genetic transformation for viral resistance), Piracicaba, Brazil, 2006.
- SOUZA, A. J. de. Agronegócios: Desafios para as Micro e Pequenas Empresas (Agribusiness: challenges for the small business), Bahia, Brazil, 2004.
- SOUZA, A. J. de. Experiência da Cadeia Produtiva do Leite na Bahia (Experience of the milk production chain in Bahia), Bahia, Brazil, 2003.

Achievements

- Graduate Student at the MSU – DOE Plant Research Laboratory / Genetics Program at Michigan State University (Fall 2008-Fall, 2009).
- Accepted for the Plant Biology Ph.D. program at University of Georgia, Athens, USA (Spring 2008).
- Accepted for the Plant Biology Ph.D. program at Rutgers University, New Brunswick, USA (Spring 2008).
- Participation in the Plant & Animal Genome XVI Conference as a Rockefeller Foundation Travel Grant Awardee, San Diego, California, (2008).
- First place in the Brazilian National Concourse: "Processo Seletivo para Provimento de Vagas em Cargos de Nível Superior do SEBRAE", promoted by SEBRAE (Brazilian Aid Service for Small Businesses) for a technician position, Salvador – Bahia, Brazil, (18/09/2001).
- First Place in the 2001 PROVÃO exams for the Northeastern Brazil, Evaluation System for College Education (Sistema de Avaliação da Educação Superior).

Other Experiences

(Courses, Symposiums, Conferences, Student Council Participation, Committee Participations)

- Evaluation Committee Member for the VIII Scientific Initiation Week, Colégio Piracicabano (High School), Piracicaba, Brazil, (2006).
- XXI Transmission Electron Microscopy Course, Escola Superior de Agricultura Luiz de Queiroz - ESALQ, Piracicaba, Brazil, (2006).
- Seminar: The Cartagena Protocol impacts for Brazil, ESALQ, Piracicaba, Brazil, (2006).
- Agribusiness Management Course, Federal University of Viçosa – UFV, Viçosa, Brazil, (2004).
- Systemic Training Program for medium level administration, Amana-Key, Salvador, Brazil, (09/07/2003 - 11/07/2003).
- Methodological transfer for the "Rural Training Course" of SEBRAE, Salvador,

Brazil, (18/11/2002 - 23/11/2002).

- II Encounter of Sheep and Goat Herders of Bahia, promoted by ACCOBA, Salvador, Brazil, (22/05/2002 - 23/05/2002).
- Productivity Agents Training Program – PROCAP (40h), promoted by Brazilian Institute for Quality and Productivity in Parana – IBQP, Salvador, Brazil, (08/04/2002 - 12/04/2002).
- Encounter for the Development of Ocean farming in Bahia, promoted by BMLP, UFBA, Governo da Bahia and Bahia Pesca, Taperoá, Brazil, (04/04/2002).
- Business Training on Financial Administration, promoted by SEBRAE, Salvador, Brazil, (03/12/2001 - 07/12/2001).
- Web based course, Business and Quality Management in Rural Properties – 2^a Edition, promoted by www.milkpoint.com.br, (10/2001 - 12/2001).
- Course on Agricultural Management, promoted by FTC (Faculdade de Tecnologia e Ciências), Salvador, Brazil, (12/09/2001 - 14/09/2001).
- Course on Behavior, Management and Marketing, promoted by CTC (Centro de Tecnologia do Comportamento, Gestão e Marketing) & Adjuntoria de Extensão da UNIFACS, Salvador, Brazil, (11/11/2000 - 16/12/2000) 40 hours.
- Presentation of research poster in the XIII Brazilian Meeting for Water and Soil Conservation, Ilhéus, Brazil, (06/08/2000 - 11/08/2000).
- Course on Recovery of Environmentally Degraded Areas, during the I Week of Agronomic Update, Cruz das Almas, Brazil, (04/06/2000 - 08/06/2000).
- Lecturer on The Especial Training Program (PET) of the Escola de Agronomia da Universidade Federal da Bahia, Cruz das Almas, Brazil, (18/04/2000).
- Presentation of research poster in the VI Regional Meeting for Alternative Agriculture (ERAA), Fortaleza, Brazil, (04/04/2000 - 08/04/2000).
- Course on practices of fertilization for annual and perennial cultures. Promoted by the department of agricultural chemistry and soils of Escola de Agronomia da Universidade Federal da Bahia (EAUFBA), 16 hours duration, Cruz das Almas, Brazil, (08/12/1998 - 11/12/1998).
- XII CONGRESSO BRASILEIRO DE APICULTURA (XII Brazilian Apiculture Congress), Salvador, Brazil, (10/11/1998 - 13/11/1998).
- Member of the University Student Council (Diretório Acadêmico Livre de Agronomia) (EA UFBA), (1998).
- Course on Yam Culture, promoted by Cooperativa dos Estudantes de Agronomia Resp. Ltda., Escola de Agronomia da Universidade Federal da Bahia, Cruz das Almas, Brazil, (07/05/1997 - 14/05/1997).
- Brazilian Symposium on Pineapple, promoted by EAUFBA's Masters in Agrarian Sciences and EAUFBA's Horticulture Department, Cruz das Almas, Brazil, (18/11/1996 - 21/11/1996).

References

UC Berkeley, USA

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Dr. Barbara Sears, Genetics Program Director
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University of São Paulo, Brazil

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