CV Dr. Angela Mehta
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Qualifications:

Since 2002 Research Scientist at Embrapa Recursos Genéticos e Biotecnologia, Head of the Laboratory of Genomics and Proteomics.
2010-2011 Post-doctoral stay at Universidad de Sevilla, Spain. Laboratory of Dr. Javier Florencio (Biochemistry).
2000 - 2002 PhD in Genetics and Molecular Biology of Microorganisms, UNICAMP, Campinas, SP, Brazil.
1998 – 2000 MSc in Genetics and Molecular Biology of Microorganisms, UNICAMP, Campinas, SP, Brazil.
1994 - 1997 Bachelors in Biology, University of Londrina, PR, Brazil.

Research interests:
Our research group focuses mainly on plant-pathogen interactions. We are interested in identifying genes and proteins involved in plant resistance and defense mechanisms. Among the systems we are currently studying are bacteria-, virus- and nematode-plant interactions. At present the main project we are working on is entitled " Plant-bacteria interactions: identification of proteins involved in the resistance to Xanthomonas campestris". Another area we are interested in is somatic embryogenesis. We investigate the global changes in the different stages of embryogenesis of plants such as coffee and *Elaeis guineensis*.

Selected publications:

1. VASCONCELOS, EAR ; SANTANA, CG ; GODOY, CV ; SEIXAS, CDS ; SILVA, MS ; MOREIRA, LRS ; OLIVEIRA-NETO, OB ; PRICE, D ; FITCHES, E ; FILHO, EXF ; MEHTA, A ; GATEHOUSE, JA ; GROSSI-DE-SA, MF. A new chitinase-like xylanase inhibitor protein (XIP) from coffee (Coffea arabica) affects Soybean Asian rust (Phakopsora pachyrhizi) spore germination. BMC Biotechnology (Online), v. 11, p. 14, 2011.
2. CARAZZOLLE, MF.; RABELLO, FR.; MARTINS, NF.; SOUZA, AA.; AMARAL, AM.; FREITAS-ASTUA, J; PEREIRA, GAG ; MACHADO, MA.; MEHTA, A. Identification of defence-related genes expressed in coffee and citrus during infection by Xylella fastidiosa. European Journal of Plant Pathology, v. 130, p. 529-540, 2011.
3. FRANCO, OL.; PEREIRA, JL.; COSTA, PHA; ROCHA, TL.; ALBUQUERQUE, EVS; GROSSI-DE-SÁ, MF.; CARNEIRO, RMDG; CARNEIRO, RG; MEHTA, A. Methodological evaluation of 2-DE to study root proteomics during nematode infection in cotton and coffee plants. Preparative Biochemistry & Biotechnology, v. 40, p. 152-163, 2010.
4. VILLETH, GR; REIS, FB; TONIETTO, A; HUERGO, L; DE SOUZA, EM; PEDROSA, FO; FRANCO, OL; MEHTA, A. Comparative proteome analysis of Xanthomonas campestris pv campestris in the interaction with the susceptible and the resistant cultivars of Brassica oleracea. FEMS Microbiology Letters, v. 298, p. 260-266, 2009.
5. FRANCO, O. L.; PELEGRINI, P. B.; GOMES, C. P.; Souza A; COSTA, F. T.; Domont, GB; QUIRINO, B.; EIRA, M. T. S.; MEHTA, A.. Proteomic evaluation of coffee

zygotic embryos in two different stages of seed development. Plant Physiology and Biochemistry (Paris), v. 47, p. 1046-1050, 2009.
6. MEHTA, A.; Magalhães, BS; Souza, DSL; VASCONCELOS, E. A. R.; SILVA, L. P.; Grossi de SA, M. F.; FRANCO, O. L.; COSTA, P. H. A.; ROCHA, T. L.. Rooteomics: the challenge of discovering plant defense-related proteins in roots. Current Protein and Peptide Science, v. 9, p. 108-116, 2008.
7. ANDRADE, A. E.; SILVA, L. P.; PEREIRA, J. L.; NORONHA, E. F.; REIS JUNIOR, F. B.; BLOCH JUNIOR, C.; SANTOS, M. F.; Domont, GB; FRANCO, O. L.; MEHTA, A.. In vivo proteome analysis of Xanthomonas campestris pv campestris in the interaction with the host plant Brassica oleracea. FEMS Microbiology Letters, v. 281, p. 167-174, 2008.
8. MEHTA, A. ; BRASILEIRO, A. C. M. ; Souza, DSL ; ROMANO, E. ; CAMPOS, M. ; Grossi de SA, M. F. ; SILVA, M. S. ; FRANCO, O. L. ; FRAGOSO, R. ; BEVITORI, R. ; ROCHA, T. L. . Plant-pathogen interactions: what is proteomics telling us?. The FEBS Journal, v. 275, p. 3731-3746, 2008.
9. KOSHINO, L. L. N. ; GOMES, C. P. ; SILVA, L. P. ; EIRA, M. T. S. ; BLOCH JUNIOR, C. ; FRANCO, O. L. ; MEHTA, A. . Comparative proteomical analysis of zygotic embryo and endosperm from Coffea arabica seeds. Journal of Agricultural and Food Chemistry, v. 56, p. 10922-10926, 2008.
10. RABELLO, A. R. ; GUIMARAES, C. M. ; RANGEL, P. H. N. ; da SILVA, F. R. ; SEIXAS, D. ; SOUZA, E. M. ; BRASILEIRO, A. C. M. ; SPEHAR, C. R. ; FERREIRA, M. E. ; MEHTA, A. . Identification of drought-responsive genes in roots of upland rice (Oryza sativa L). BMC Genomics, v. 9, p. 485, 2008.
11. MEHTA, A. ; SILVA, M. S. ; GONZALEZ, S. G. ; CARRER, H. ; Takita, MA ; MARTINS, N. F. . Signaling pathways in a Citrus EST database. Genetics and Molecular Biology, v. 30, p. 734-751, 2007.
12. SIMOES, T. H. ; GONÇALVES, E. R. ; ROSATO, Y. B. ; MEHTA, A. . Differentiation of Xanthomonas species by PCR-RFLP of the rpfB and atpD genes. FEMS Microbiology Letters, v. 271, p. 33-39, 2007.
13. GUIDETTI-GONZALEZ, S. ; FREITAS-ASTUA, J. ; AMARAL, A. M. ; MARTINS, N. F. ; MEHTA, A. ; SILVA, M. S. ; CARRER, H. . Genes associated with hypersensitive response (HR) in the citrus EST (CitEST) database. Genetics and Molecular Biology, v. 30, p. 943-956, 2007.
14. VIEIRA, L. G. E. ; ANDRADE, A. C. ; COLOMBO, C. A. ; MEHTA, A. ; ALBUQUERQUE, E. V. S. ; SILVA, F. R. ; Pereira, GAG ; TEIXEIRA, J. B. ; SA, M. F. G. ; EIRA, M. T. S. . Brazilian coffee genome project: an EST-based genomic resource. Brazilian Journal of Plant Physiology, v. 18, p. 95-108, 2006.
15. MEHTA, A.; ROSATO, Y. B. Identification of differentially expressed genes of Xanthomonas axonopodis pv. citri by representational difference analysis of cDNA. Genetics and Molecular Biology, v. 28, p. 140-149, 2005.
16. TAHARA, S. T.; MEHTA, A.; ROSATO, Y. B. Proteins induced by Xanthomonas axonopodis pv. passiflorae in the interaction with leaf extract of the host plant (Passiflorae edulis). Proteomics, v. 3, p. 95-102, 2003.
17. MEHTA, A. ; ROSATO, Y. B. A simple method for in vivo expression studies of Xanthomonas axonopodis pv. citri.. Current Microbiology, v. 47, p. 400-404, 2003.
18. MEHTA, A.; LEITE JR, R. P.; ROSATO, Y. B. Assessment of the genetic diversity of Xylella fastidiosa isolated from citrus by PCR-RFLP of the 16S rDNA and 16S-23S intergenic spacer and rep-PCR. Antonie van Leeuwenhoek, v. 79, p. 53-59, 2001.
19. MEHTA, A.; ROSATO, Y. B. Phylogenetic relationships of Xylella fastidiosa strains from different hosts based on 16S rDNA and 16S-23S intergenic spacer sequences. International Journal of Systematic Bacteriology, v. 51, p. 311-318, 2001.
20. MEHTA, A.; ROSATO, Y. B. Differentially expressed proteins in the interaction of Xanthomonas axonopodis pv. citri with leaf extract of the host plant. Proteomics, v. 9, p. 1111-1118, 2001.