MARI SALMI, Ph.D.

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I. ACADEMIC/PROFESSIONAL BACKGROUND

A. Name and Title

Mari Sami, PhD

B. Educational Background

PhD 2005 University of Texas at Austin Biological Sciences

Dissertation: Expression Profile Analysis of Early Development and Gravity Response of Germinating *Ceratopteris richardii* Spores

BS 1998 University of Texas at Austin Botany

C. University Experience

Scientist/Engineering Research Associate	University of Texas at Austin	2012-2016
Graduate Teaching Lab and Curriculum Coordinator	Morehouse School of Medicine	2010-2012
Post-doctoral Research Fellow	Universidad Nacional Autonoma de Mexico	2007-2009
Post-doctoral Research Fellow	University of Texas at Austin	2005-2007

D. Relevant Professional Experience

Scientist I, Core Research Operations; Texas State University	Current-2025
Sr. Director of Process Development and Cell Therapy Testing; BBG Advanced Therapies	2023-2025
Director of Process Development; Gencure	2018-2023
Senior Scientist and Immunodiagnostics Group Manager; Paratus Diagnostics	2016-2018

II. SCHOLARLY/CREATIVE

A. Works in Print

A. E. Cannon, D. C. Vanegas, T. Sabharwal, **M. L. Salmi**, J. Wang, G. C., E. S. McLamore, S. J. Roux. (2023) Polarized distribution of extracellular nucleotides promotes gravity-directed polarization of development in spores of *Ceratopteris richardii*. Frontiers in Plant Science. Oct 3:14:1265458. DOI: 10.3389/fpls.2023.1265458.

A. E. Cannon, T. Sabharwal, **M. L. Salmi,** G. K. Chittari, V. Annamalai, L. Leggett, H. Morris, C. Slife, G. B. Clark, S. J. Roux. (2023) Two distinct light-induced reactions are needed to promote germination in spores of *Ceratopteris richardii*. Frontiers in Plant Science. Jun 2:14:1150199. doi: 10.3389/fpls.2023.1150199.

C. D. McWhite, O. Papoulas, K. Drew, R. M. Cox, V. June, O. X. Dong, T. Kwon, C. Wan, **M. L. Salmi**, S. J. Roux, K. S. Browning, Z. J. Chen, P. C. Ronald, E. M. Marcotte. (2020) A pan-plant protein complex map reveals deep conservation and novel assemblies. Cell. S0092-8674(20)30226-9; DOI: 10.1101/815837.

J. Park, **M. L. Salmi**, W. W. A. Wan Salim, A. Rademacher, B. Wickizer, A. Schooley, J. Benton, A. Cantero, P. F. Argote, M. Ren, M. Zhang, D. M. Porterfield, A. J. Ricco, S. J. Roux , and J. L. Rickus (2017) An autonomous lab on a chip for space flight calibration of gravity-induced transcellular calcium polarization in single-cell fern spores. Lab on a Chip. 17:1095-1103; DOI:10.1039/C6LC01370H.

A. E. Cannon, **M. L. Salmi,** T. J. Bushart, and S. J. Roux, "Studying molecular changes during gravity perception and response in a single cell." Methods in Molecular Biology; Volume 1309. Edited by Elison D. Blancaflor. New York: Springer, 2015, DOI:10.1007/978-1-4939-2697-8_15.

G. B. Clark, R. M., M. P. Fernandez, **M. L. Salmi**, S. J. Roux. (2014) Breakthroughs spotlighting roles for extracellular nucleotides and apyrases in stress responses and growth and development. Plant Science. 2014 Aug:225:107-16. DOI: 10.1016/j.plantsci.2014.06.002.

M. L. Salmi, A. Ul Haque, T. J. Bushart, S. C. Stout, S. J. Roux, and D. M. Porterfield. (2011) Changes in gravity rapidly alter the magnitude and direction of a cellular calcium current. Planta. 223:911-920, DOI:10.1007/s00425-010-1343-2.

E. Cordoba, **M. L. Salmi,** and P. León. (2009) Unravelling the regulatory mechanisms that modulate the MEP pathway in higher plants. Journal of Experimental Botany. 60:2933-2943, DOI:10.1093/jxb/erp190.

M. L. Salmi and S. J. Roux. (2008) Gene expression changes induced by space Fight in single-cells of the fern *Ceratopteris richardii.* Planta. 229:151-159, DOI:10.1007/s00425-008-0817-y.

J. Yao, C. Chang, **M. L. Salmi**, Y. S. Hung, A. Loraine, and S. J. Roux. (2008) Genome-scale cluster analysis of replicated microarrays using shrinkage correlation coefficient. BMC Bioinformatics. 9:288, DOI:10.1186/1471-2105-9-288.

M. L. Salmi, K. E. Morris, S. J. Roux, and D. M. Porterfield. (2007) Nitric Oxide and cGMP Signaling in Calcium-Dependent Cell Polarity Development of *Ceratopteris richardii*. Plant Physiology. 144: 94-104, DOI:10.1104/pp.107.096131.

M. L. Salmi, T, J. Bushart, S. C. Stout, and S. J. Roux. (2005) Profile and analysis of gene expression changes during early development in germinating spores of *Ceratopteris richardii*. Plant Physiology. 138: 1734-1745, DOI:10.1104/pp.105.062851.

B. Works not in Print – Invited Presentations

Smithsonian Institute and US Botanical Garden, Washington DC, June 2015
"Transcriptomic and proteomic analyses of gravity-directed polar development in germinating spores of *Ceratopteris richardii*. Next Generation Pteridology; An international conference on lycophyte and fern research"

III. SERVICE

School Board Trustee at Large; San Marcos Consolidated Independent School District 2021-2024