Vonny Salim

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Education

2013-Present Post-doctoral researcher Michigan State University, East Lansing, Michigan, USA, under the supervision of Dr. Dean DellaPenna 2008-2013 Ph.D in Biotechnology Brock University, St. Catharines, Ontario, Canada, under the supervision of Dr. Vincenzo De Luca Thesis Title: Functional characterization of monoterpenoid indole alkaloid biosvnthetic genes in Catharanthus roseus 2009 Visiting Student Max Planck Institute for Chemical Ecology, Jena, Germany, under the supervision of Dr. Wilhelm Boland 2005-2007 **Bachelor of Science in Biotechnology/Biochemistry** Calvin College, Grand Rapids, Michigan, USA Johns Hopkins University, Baltimore, Maryland, USA 2003-2005 Associate of Science Green River Community College, Auburn, Washington, USA Awards and Honors 2006-2007 Dean's List Award for consecutive semesters, Calvin College 2006-2007 Benjamin van Andel Scholarship, Calvin College 2006 Biology Department Summer Undergraduate Research Award, Calvin College

- 2005 Scholastic Award, Highest Honors, Green River Community College
- **2005** The Outstanding Leadership and Achievement Award at Green River Community College as the president of Chemistry Club and Teachers Club
- 2005 Certification of Merit for the Outstanding Mathematics Tutor at Green River Community College
- 2004-2005 Ed Fohn Memorial Scholarship, Green River Community College
- 2003 Ontario Scholar Award for student who has obtained at least eighty percent in Grade Thirteen from Minister of Education, Toronto, Canada
- 2003 Certificate of Distinction for top twenty-five percent contestants in the Euclid Mathematics contest, University of Waterloo, Canada

Teaching

2012	Lecturer, Biology Department Seminar, Calvin College, USA
2008	Plant Physiology Teaching Assistant, Brock University, Canada
2006-2007	Cell Biology & Genetics and Chemistry Teaching Assistant, Calvin College, USA

Meeting Participation

2013	Gordon Conference on Plant Metabolic Engineering, New Hampshire, USA, abstract selected for oral presentation
2012	3rd Banff Conference on Plant Metabolism, Alberta, Canada, abstract selected for oral presentation
2011	Canadian Society of Plant Biologists, Eastern Regional Meeting, Carleton University, Ottawa, Ontario, Canada, poster presentation
2011	Canadian Plant Genomics Workshop, Niagara Falls, Ontario, Canada, poster presentation
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2010 Canadian Society of Plant Biologists, Eastern Regional Meeting, Brock University St. Catharines, Ontario, Canada, abstract selected for oral presentation

Publications

De Luca, V., **Salim, V**., Thamm, A., Masada-Atsumi, S., Yu, F. (2014). Making iridoids/secoiridoids and monoterpenoid indole alkaloids: Progress on pathway elucidation. *Current Opinion in Plant Biology* 19:35-42.

Salim, V., Wiens, B., Masada-Atsumi, S., Yu, F., De Luca, V. (2014). Iridodial oxidase catalyzes a key 3 step oxidation to form 7-deoxyloganetic acid in the *Catharanthus roseus* iridoid biosynthesis. *Phytochemistry* 101:23-31.

Besseau, S., Kellner, F., Lanoue, A., Thamm, A.M.K., **Salim, V**., Schneider, B., Geu-Flores, F., Höfer, R., Guirimand, G., Guihur, A., Oudin, A., Glevarec, G., Foureau, E., Papon, N., Clastre, M., Giglioli-Guivarc'h, N., St-Pierre, B., Werck-Reichhart, D., Burlat, V., De Luca, V., O'Connor, S.E., Courdavault, V. (2013). A pair of tabersonine 16-hydroxylases initiates the synthesis of vindoline in an organ-dependent manner in *Catharanthus roseus*. *Plant Physiology* 163: 1792-1803.

Salim, V., Yu, F., Altarejos, J., De Luca, V. (2013). Virus-induced gene silencing identifies *Catharanthus roseus* 7-deoxyloganic acid-7-hydroxylase, a step in iridoid and monoterpene indole alkaloid biosynthesis. *Plant Journal* 76: 754-765.

Asada, K.*, **Salim, V**.*, Masada-Atsumi, S.*, Edmunds, E., Nagatoshi, M., Terasaka, K., Mizukami, H., De Luca, V. (2013). A 7-deoxyloganetic acid glucosyltransferase contributes a key step in secologanin biosynthesis in Madagascar periwinkle. *Plant Cell* 25: 4123-4134. (* co-1st authors).

Salim, V., De Luca, V. (2013). Towards complete elucidation of monoterpene indole alkaloid biosynthesis pathway: *Catharanthus roseus* as a pioneer system. *Advances in Botanical Research* 68: 1-37.

De Luca, V., **Salim, V**., Levac, D., Atsumi, S. M., Yu, F. (2012). Discovery and functional analysis of monoterpenoid indole alkaloid pathways in plants. *Methods in Enzymology* 515: 207-229.

De Luca, V., **Salim, V**., Atsumi, S.M., Yu, F. (2012). Mining the biodiversity of plants: A revolution in the making. *Science* 336: 1658-1661.

Roepke, J.*, **Salim, V**.*, Wu, M., Thamm, A.M.K., Murata, J., Ploss, K., Boland, W., De Luca, V. (2010) Vinca drug components accumulate exclusively in leaf exudates of Madagascar periwinkle. *PNAS* 107: 15287-15292. (* co-1st authors).

Professional Experience

- **2007-2008** Development Assistant, Alder Biopharmaceuticals, Inc., Bothell, Washington, USA
- 2007 Quality Assurance Assistant, MDS Pharma Services, Bothell, Washington, USA
- **2005** Brain Tumor Research Data Assistant, New Approaches to Brain Tumor Therapy (NABTT), The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins Hospital, Baltimore, Maryland, USA