Nik Kovinich

West Virginia University 333 Evansdale Dr. Morgantown, WV 26506-6108 <u>nikovinich@mail.wvu.edu</u>

Current Appointment	Assistant Professor of Genetics, Division of Plant and Soil Sciences Davis College of Agriculture, Natural Resources and Design, WVU 2015 July – Present	
Education	Ph.D. Biology Carleton University / Agriculture and Agri-Food Canada 2007 September – 2011 September	
	B.Sc. Honors Biology (Biotechnology) University of Ottawa 2003 September - 2007 April	
	Diploma - Horticulture and Greenhouse Management Kemptville College 2001 September – 2003 April	
Postdoctoral Training	The Ohio State University, Department of Molecular Genetics 2011 October – 2015 June	
Academic Appointments	Postdoctoral Fellow The Ohio State University, Department of Molecular Genetics 2011 October – 2015 June	
	Research Affiliate Agriculture and Agri-Food Canada (Supervisor: Brian Miki) 2010 April - 2011 September	
	Plant Biology Research Assistant Agriculture and Agri-Food Canada (Supervisor: Harvey Voldeng) May – September, 2003-2007	
Teaching	Courses Principles in Genetics (Lecture and Lab) – GEN 371 Honors Investigation and Thesis – BIOL 486 Independent Research – BIOL 386 Teaching Practicum – GEN 790 Research – GEN 497	
	Research Mentor West Virginia University 2015 July – Present Students: <u>Md. Asraful Jahan</u> (PhD student) <u>Kelli Farrell</u> (Undergraduate - Biology) <u>Paige Durkin</u> (Undergraduate – Biology) <u>Holland Matlock</u> (Undergraduate – Biochemistry)	

Paige Palumbo (Undergraduate – Biology)

The Ohio State University

2012 February – 2015 May

Students:

Janet A. Adegboye (Undergraduate, Presently at CWRU Med School) <u>Gilbert Kayanja</u> (Pre-Graduate Student, Presently at Purdue) <u>Daniela Carolina Pinto Elicio</u> (PhD Student) <u>Yiqun Wang</u> (Undergraduate, Presently at Harvard University) <u>Donald Thomas</u> (Undergraduate, Presently at OSU Medical School) <u>Anna Zakas</u> (Undergraduate, Presently at BioReliance)

Guest Lecturer

University of Ottawa, ON, CA 2009 November Course: BIO4144 Plant Biochemistry and Molecular Biology Lecture Topic: Metabolic engineering

Teaching Assistant

Carleton University 2008 September – 2011 September Courses: Practical Biochemistry (BIOC 3006) General Biochemistry II (BIOC 3102) General Biochemistry I (BIOC 3101) Plant Biochemistry and Physiology (BIOL 3305) Cell Physiology and Biochemistry (BIOC 2200) Introductory Genetics (BIOL 2104)

Awards

Nominated for Outstanding Undergraduate Research Mentor Undergraduate Research Office and URO's Student Advisory Committee, The Ohio State University 2014 February (Declined Award - Not Faculty)

Visiting Fellowships in Canadian Government Laboratories NSERC Postdoctoral Fellowship 2013 June (Declined Award - Pelotonia did not Permit Simultaneously Holding two Fellowships)

Postdoctoral Pelotonia Fellowship 2012 November – 2014 November

Ontario Graduate Scholarship 2011 September, Declined

Dean Grad. Stud. Acad. Excellence 2010 September - 2011 August

International Association for Plant Biotechnology – Canadian Scholarship December 2009

Dean Grad. Stud. Acad. Excellence 2009 September - 2010 August

	Phytochemical Society of North America – Best Presentation August 2009	
	Carleton University Graduate Scholarship 2008 September - 2008 December	
	University of Ottawa – Dean's Honor 2006-2007	
Memberships in Professional Societies	 2011- American Society of Plant Biologists 2009- International Association for Plant Biotechnology 2009- Phytochemical Society of North America 2009-2011 Canadian Society of Plant Physiologists 	
Peer Reviewed Publications	Chanoca A, Burkel B, Kovinich N, Grotewold E, Eliceiri K, Otegui M (In Press). Using Fluorescence Lifetime Microscopy to Study Subcellular Localization. Plant Journal TPJ-00510-2016.	
	Chanoca A, Kovinich N , Grotewold E, Otegui M. (2015). <u>Anthocyanin</u> <u>Vacuolar Inclusions Form by a Microautophagy Mechanism.</u> The Plant Cell. DOI: tpc.15.00589. (Cover article for <i>The Plant Cell,</i> <i>and highlighted in <u>Nature</u></i>)	
	Kovinich N, Kayanja G, Chanoca A, Otegui M, Grotewold E (2015). <u>Abiotic stresses induce different localizations of anthocyanins in</u> <u>Arabidopsis.</u> Plant Signaling & Behavior DOI 10.1080/15592324.2015.1027850.	
	Kovinich N, Kayanja G, Chanoca A, Riedl K, Otegui M, Grotewold E (2014). <u>Not all anthocyanins are born equal: Distinct patterns</u> <u>induced by stress in Arabidopsis.</u> Planta DOI 10.1007/s00425- 014-2079-1.	
	Kovinich N, Saleem A, Arnason JT, and Miki B. (2012a). <u>Coloring</u> <u>genetically modified soybean grains with anthocyanins by</u> <u>suppression of the proanthocyanidin genes ANR1 and ANR2</u> . Transgenic research DOI: 10.1007/s11248-011-9566-y.	
	Kovinich N, Saleem A, Arnason JT, Miki B. (2012b). <u>Identification of two</u> anthocyanidin reductase genes and three red-brown soybean accessions with reduced anthocyanidin reductase 1 mRNA, activity, and seed coat proanthocyanidin amounts. Journal of agricultural and food chemistry 60: 574-84.	
	Schnell S, Labbé H, Kovinich N , Manabe Y, Miki B. (2012c). <u>Comparability</u> of imazapyr-resistant Arabidopsis created by transgenesis and <u>mutagenesis</u> . Transgenic research DOI: 10.1007/s11248-012-9597- z.	
	Kovinich N, Saleem A, Arnason JT, Miki B (2011a) Combined analysis of	

	between bla	ne and metabolite data reveals extensive differences ack and brown nearly-isogenic soybean (Glycine max) enabling the identification of pigment isogenes. BMC 12: 381.	
	Kovinich N, Arnason JT, DeLuca V, Miki B (2011b) <u>Coloring Soybe</u> <u>with Anthocyanins?</u> <i>In</i> DR Gang, ed, Recent Advances in Phytochemistry, Vol 41. Springer, pp 47-57. ISBN: 978-1-44 6961-3.		
	<u>characteriz</u> glucosyltrar	m A, Arnason JT, Miki B (2010) <u>Functional</u> ation of a UDP-glucose:flavonoid 3- <i>O</i> - nsferase from the seed coat of black soybean (Glycine err.). Phytochemistry 71: 1253-1263	
Manuscripts in Preparation	MATE45 m	Y, Chanoca A, Adegboye A, Otegui M, Grotewold E. ediates the intertissue distribution of abscisic acid to growth and the abiotic stress response	
Invited Presentations	Mediators of Crop Science Kovinich N, Grotev Stress for C Sciences, L Kovinich N, Grotev Against Car Synthetic B Ottawa, ON Kovinich N, Grotev Against Car Synthetic B Kovinich N, Grotev Against Car Synthetic B Ottawa, ON Kovinich N, Grotev Against Car Synthetic B Ottawa, ON Kovinich N, Grotev Against Car Synthetic B Ottawa, ON Kovinich N, Wang Otegui M, C membrane- subset of ar Metabolism Kovinich N, Miki B Professor D ON, Canad Kovinich N, Saleer anthocyanir flavonoid 3- 12th World	vold E (2013) New Frontiers in the Chemical Arsenal ncer: Combining Modules of Semi-Synthesis and iology. Pelotonia Fellowship Symposium, OH, USA Y, Vascik A, Bohorquez-Restrepo A, Chanoca A, Grotewold E (2012) A genome-wide screen identifies a bound transporter required for the accumulation of a nthocyanins in Arabidopsis. Banff Conference on Plant , AB, Canada (2011) Metabolic Engineering of Seed Coat Color. Doug Johnson's BIO4144 Course, University of Ottawa,	
Scientific Activities	<i>Reviewer</i> 2016- 2015- 2015- 2014, 2015- 2014, 2012, 2011- 2013- 2013-	Plant Cell Reports Journal of Proteome Research Plant Physiology and Biochemistry PLOS ONE Plant Science Arabian Journal of Chemistry International Journal 4 Molecular Sciences	

2013-	Protoplasma
2012-	Planta
2011-	BMC Plant Biology
<i>Judge</i>	Denman Forum (An Undergraduate Science Fair)
2014-	Annual Akwesasne Mohawk Science Fair
2011-	(An Elementary School Science Fair)

Other	Advisor - CAPS Plant Growth Facilities Committee
Appointments	Center for Applied Sciences (CAPS) / The Ohio State University 2013 - 2015