

BIOGRAPHICAL SKETCH

PANKAJ JAISWAL

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Professional Preparation

Lucknow University, India	B.Sc. (Botany & Chemistry)	1990
Lucknow University, India	M.Sc. (Biochemistry)	1992
Lucknow University, India	Ph.D. (Botany)	1998
Vienna Biocentre, Univ. of Vienna, Austria	Postdoctoral Associate	1998-1999
Boyce Thompson Institute	Postdoctoral Associate	1999-2001
Cornell University	Postdoctoral Associate	2001-2002

Appointments

2012-present	Affiliate graduate co-advisor Electrical Eng. and Computer Sc., Oregon State Univ.
2009-Present	Affiliated Faculty Center for Genome Research & Biocomputing, Oregon State Univ.
2009-Present	Affiliated Faculty Molecular & Cell Biology Graduate Program, Oregon State Univ.
2014-Present	Associate Professor; Dept. of Botany & Plant Pathology, Oregon State University
2008-2014	Assistant Professor; Dept. of Botany & Plant Pathology, Oregon State University
2007-2008	Sr. Research Associate; Dept. of Plant Breeding & Genetics, Cornell University
2003-2006	Research Associate; Dept. of Plant Breeding & Genetics, Cornell University

Five Products Most Closely Related to the Topic:

1. Naithani S, Preece J, D'Eustachio P, Gupta P, Amarasinghe V, Dharmawardhana PD, Wu G3, Fabregat A, Elser JL, Weiser J, Keays M, Fuentes AM, Petryszak R, Stein LD, Ware D, **Jaiswal P**. Nucleic Acids Res. (2017). pii: gkw932 doi: 10.1093/nar/gkw932
2. Petryszak, Robert; Keays, Maria; Tang, Amy; Fonseca, Nuno; Barrera Casanova, Elisabet; Burdett, Tony; Füllgrabe, Anja; Muñoz-Pomer Fuentes, Alfonso; Jupp, Simon; Koskinen, Satu; Mannion, Oliver; Huerta Martinez, Laura; Megy, Karyn; Snow, Catherine; Williams, Eleanor; Barzine, Mitra; Hastings, Emma; Weisser, Hendrik; Wright, James; **Jaiswal, P**; Huber, Wolfgang; Chaudhary, Jyoti; Parkinson, Helen; Brazma, Alvis (2016). Expression Atlas update – an integrated database of gene and protein expression in humans, animals and plants. Nucleic Acids Res. NAR-02597-Data-E-2015.R1, doi:10.1093/nar/gkv1045
3. Xu W, Gupta A, **Jaiswal P**, Taylor C, and Lockhart P. (2016) A Web Application for Extracting Key Domain Information for Scientific Publications using Ontology. In Proceedings of International Conference on Biomedical Ontology and BioCreative (ICBO BioCreative 2016). CEUR-ws.org 1747 http://ceur-ws.org/Vol-1747/BIT105_ICBO2016.pdf
4. Cooper L, Walls R, Elser J, Gandolfo M, Stevenson D, Smith B, Preece J, Athreya B, Mungall C, Rensing S, Hiss M, Lang D, Reski R, Berardini T, Li D, Huala E, Schaeffer M, Menda N, Arnaud E, Shrestha R, Yamazaki Y, **Jaiswal P**. The Plant Ontology as a Tool for Comparative Plant Anatomy and Genomic Analyses. (2012) Plant and Cell Physiology doi: 10.1093/pcp/pcs163 <http://pcp.oxfordjournals.org/content/54/2/e1.full>
5. Shulaev V, Sargent DJ, Crowhurst RJ, Mockler T, Veilleux RE, Folkerts O, Delcher AL, **Jaiswal P**, et al; (2010); The genome of woodland strawberry (*Fragaria vesca*), Nature Genetics, 43, 109-116; doi:10.1038/ng.740.

Five other significant products, whether or not related to the proposed project:

1. Filichkin S, Cumbie JS, Dharmawardhana P, **Jaiswal P**, Chang JH, Palusa SG, Reddy ASN, Megraw M, Mockler T (2014). Unproductive alternative splicing of the circadian oscillator pre-mRNAs modulates transcriptome responses to environmental stresses. Molecular Plant, doi: 10.1093/mp/ssu13

2. Fox SE, Geniza M, Hanumappa M, Naithani S, Sullivan C, Preece J, Tiwari VK, Elser J, Leonard JM, Sage A, Gresham C, Kerhornou A, Bolser D, McCarthy F, Kersey P, Lazo GR, **Jaiswal P** (2014) De Novo Transcriptome Assembly and Analyses of Gene Expression during Photomorphogenesis in Diploid Wheat *Triticum monococcum*. PLoS ONE 9(5): e96855. doi:10.1371/journal.pone.0096855
3. Vining K, Romanel E, Jones R, Klocko A, Alves-Ferreira M, Hefer C, Amarasinghe V, Dharmawardhana P, Naithani S, Ranik M, Wesley-Smith, J, **Jaiswal P**, Myburg A, Solomon L, Strauss S (2014). Floral transcriptome of *Eucalyptus grandis*. New Phytologist, doi: 10.1111/nph.13077
4. Monaco, M., Sen, T., Dharmawardhana, P., Ren, L., Schaeffer, M, Naithani, S, Amarasinghe, A., Thomason, J., Harper, L., Gardiner, J., Cannon, E., Lawrence, C, Ware, D., and **Jaiswal P.**; (2012) "Maize Metabolic Network Construction and Transcriptome Analysis". Plant Genome, doi: 0.3835/plantgenome2012.09.0025. <https://www.crops.org/publications/tpg/abstracts/0/0/plantgenome2012.09.0025>
5. Dharmawardhana P, Ren L, Amarasinghe V, Monaco M, Thomason J, Ravenscroft D, McCouch S, Ware D, **Jaiswal P** (2013); Genome Scale metabolic network for rice and analysis of tryptophan and derivative biosynthesis regulation during biotic stress. Rice 6:15; doi:10.1186/1939-8433-6-15

Synergistic Activities:

Co-PI on the NSF funded project on Gramene database (IOS: 1127112), PI on the NSF funded common reference ontologies for plants project (IOS: 1340112) and PI on the DOE Feedstock program funded Poplar Interactome project. Co-organizer for Systems Biology and Ontologies workshop at annual Plant and Animal genome conference (2004-17), I lead the Gramene project's section on functional annotation of the genome and development of Plant Reactome database. Teaching Plant Physiology (BOT331/BOT505), Plant Pathology (BOT550), techniques in Mol Bio (MCB525) and research in Mol and Cell Bio (MCB511) at OSU. Serves as adhoc reviewer for various NSF, USDA and INRA grant proposals, and several scientific journal articles. OSU-Chapter Honor Society of President Phi Kappa Phi.

Conflict of Interest:

Collaborators & Other Affiliations: Elizabeth Arnaud (Bioversity), Eric Beer (Virginia Tech), Amy Brunner (Virginia Tech), Chris Daly (Oregon State University), Genevieve DeClerck (Cornell University), Paul Kersey (EBI), Carolyn Lawrence (USDA-ARS), Chris Mungall (Berkley Lab), Sushma Naithani, Sergei Filichkin (Oregon State University), Sushma Naithani (Oregon State University), Terry Nipp (Sun Grant Association), Helen Parkinson (EBI), Barry Smith (Univ. of Buffalo), Joshua Stein (Cold Spring Harbor Laboratory), Lincoln Stein (Cold Spring Harbor Laboratory), Dennis Stevenson (NYBG), Crispin Taylor (ASPB), Ramona Walls (iPlant), Doreen Ware (Cold Spring Harbor Laboratory, USDA-ARS), Sharon Wei (Cold Spring Harbor Laboratory), Yukiko Yamazaki (NIG-Japan), Georgios Gkoutos, John Doonan (Univ. of Aberystwyth), Narottan Dey (Visvabharati India)

Graduate and Postdoctoral Advisors: Silva Lerbs-Mache (Univ; Joseph Fourier), Susan McCouch (Cornell); Naresh K Mehrotra (deceased, Lucknow Univ); Prafullachandra V Sane (NBRI, India); Rudolf Schweyen (deceased, Vienna Biocenter); David Stern (Boyce Thompson Inst.)

Thesis Advisor and Postgraduate-Scholar Sponsor: Justin Elser, Palitha Dharmawardhana, Vindhya Amarasinghe, Sam Fox, Kamwar Zhian, Laurel Cooper, Mamatha Hanumappa, Nikhil Lingutla. Matthew Geniza, Noor Al-Bader, Laurel Cooper, Austin Meier, Parul Gupta, Matthew Martin, Priyanka Garg (Oregon State Univ.)