



# Sujeet Verma

Biological Scientist II  
Strawberry Breeding and Genetics  
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## Biography

I am currently employed as a statistical and molecular geneticist on the position of Biological Scientist II, at the University of Florida (UF), Gulf Coast Research and Education Center (GCREC), in the strawberry breeding and genetics laboratory. I have a profound interest in understanding allelic diversity at genetic loci and their segregation and association with important traits in crop species. I have extensive experience in linkage mapping, quantitative trait locus (QTL) mapping, and marker-assisted breeding in apple, sweet cherry, peach and in octoploid strawberry (*Fragaria × ananassa*). I also have extensive experience in JoinMap, FlexQTL, haplotyping and haploblocking. I also have keen interest in genomic selection (GS) using SNP array technology. I assist in mentoring graduate students, teaching genetic analysis research methods, data analysis and interpretation at University of Florida.

Prior to UF, I completed my Ph.D. in apple fruit genetics and breeding in the Department of Horticulture, Washington State University, Pullman. I discovered and characterized genetic factors for apple acidity, crispness and juiciness, also working with peach, cherry and other fruit crops. My work has resulted in numerous breeding tools in apple and strawberry and in many refereed journal publications. I have co-authored and authored more than 20 publications in high impact peer-reviewed journals including BioMed Central Genomics, Theoretical and Applied Genetics, Molecular Breeding, Horticulture Research, G3 Genes | Genomes | Genetics, Acta Horticulture, Horticulture Science, Frontiers in physiology, Circulation Heart Failure, Plant & Animal Genome conference proceedings, American Society of Horticulture Science conference proceedings, and have served as a reviewer for several journals including Tree Genetics and Genomes & HortScience. I have also presented numerous talks and posters at several International conferences.

## Education

2009 - 2014	Ph.D. in Horticulture, Washington State University (Tree-fruit breeding and genetics)
2007- 2009	M.S. in Horticulture, Washington State University

## Research interests

QTL mapping, genetic mapping, haplotyping, imputation, linkage disequilibrium estimation, genomic selection, statistical analysis, allele-mining, marker-assisted selection

## Book chapters

1. **Sujeet Verma**, Luis F. Osorio, Seonghee Lee, Nahla Bassil, Vance M. Whitaker. (2018) Genome-Assisted Breeding in the Octoploid Strawberry. In: Hytönen T., Graham J., Harrison R. (eds) The Genomes of Rosaceous Berries and Their Wild Relatives pp 161-

184. Compendium of Plant Genomes. Springer, Cham. ISBN 978-3-319-76020-9  
[https://doi.org/10.1007/978-3-319-76020-9\\_12](https://doi.org/10.1007/978-3-319-76020-9_12)

### Editorial panel

Journal of Horticulture ISSN: 2376-0354  
Biological Sciences (Omics publication group)  
Journal of Plant Biology and Crop Research (MedDocs Publishers LLC)

### Reviewer panel

Tree Genetics and Genomes ISSN: 1614-2942  
Horticulture Research (Nature's publication group) ISSN 2052-7276  
Journal of American Society of Horticultural Sciences ISSN: 2327-9788  
HortScience ISSN: 2327-9834  
International Journal of Horticulture & Agriculture ISSN 2572-3154  
Biological Sciences (Omics publication group)

### Research associate

1. RosBREED-I funded through the USDA's National Institute of Food and Agriculture – Specialty Crop Research Initiative project, 'RosBREED: Enabling Marker-Assisted Breeding in Rosaceae' (2009-51181-05808)
2. RosBREED-II funded through the USDA's National Institute of Food and Agriculture – Specialty Crop Research Initiative project 'RosBREED: Combining Disease Resistance and Horticultural Quality in New Rosaceous Cultivars' (2014-51181-22378)

### Research grants

1. Contributor: "Redefining Early Strawberry Varieties for Florida" led by Dr. Vance Whitaker. Specialty Crop Block Grant Program, Florida Department of Agriculture and Consumer Services for \$250,000 for 2 years (2014-2016)

### Refereed Journal Publications

#### **Published**

1. **Sujeet Verma**, Kate Evans, Yingzhu Guan, James J. Luby, Umesh R. Rosyara, Nicolas P. Howard, Nahla Bassil, Marco CAM Bink, Eric W. van de Weg, Cameron P. Peace (2018) Two large-effect QTLs, *Ma* and *Ma3*, determine genetic potential for acidity in apple fruit: Breeding insights from a multi-family study. *Tree Genet Genomes* 15. doi: 10.1007/s11295-019-1324-y
2. Natalia Salinas, **Sujeet Verma**, Natalia Peres, Vance M. Whitaker (2018) *FaRCa1*: a major subgenome-specific locus conferring resistance to *Colletotrichum acutatum* in strawberry. *Theor Appl Genet*. doi: 10.1007/s00122-018-3263-7
3. Ashlee Anciro, Jozer Mangandi, **Sujeet Verma**, Natalia Peres, Vance M. Whitaker, Seonghee Lee (2018) *FaRCg1*: a quantitative trait locus conferring resistance to *Colletotrichum* crown rot caused by *Colletotrichum gloeosporioides* in octoploid strawberry. *Theor Appl Genet*. doi: 10.1007/s00122-018-3145-z
4. **Sujeet Verma** and Vance M. Whitaker (2018) Prediction of QTL genotypes and trait phenotypes using FlexQTL™: A pedigree-based analysis approach. *Journal of Plant Biology and Crop Science*: 4
5. Young-Hee Noh, Youngjae Oh, Jozer Mangandi, **Sujeet Verma**, Jason D. Zurn, Yi-Tien Lu, Zhen Fan, Nahla Bassil, Natalia Peres, Glenn Cole, Charlotte Acharya, Randi Famula, Steve Knapp, Vance M. Whitaker, Seonghee Lee (2018) High-throughput marker assays for *FaRPc2*-mediated resistance to *Phytophthora* crown rot in octoploid strawberry. *Mol Breed* 38. doi: 10.1007/s11032-018-0861-7

6. Ranganath Mamidi, Jiayang Li, Chang Yoon Doh, **Sujeet Verma**, Julian E. Stelzer (2018) Impact of the myosin modulator mavacamten on force generation and cross-bridge behavior in a murine model of hypercontractility. *J Am Heart Assoc* 7. doi: 10.1161/JAHA.118.009627
7. **Sujeet Verma**, Jason D. Zurn, Natalia Salinas, Megan M. Mathey, Beatrice Denoyes, James F. Hancock, Chad E. Finn, Nahla V. Bassil, and Vance M. Whitaker (2017) Clarifying sub-genomic positions of QTLs for flowering habit and fruit quality in U.S. strawberry (*Fragaria ×ananassa*) breeding populations using pedigree-based QTL analysis. *Horticulture Research* 4:17062; doi:10.1038/hortres.2017.62 <http://www.nature.com/articles/hortres201762>
8. Jozer Mangandi, **Sujeet Verma**, Luis Osorio, Natalia A. Peres, Eric Van de Weg, Vance M. Whitaker (2017) Pedigree-based analysis in a multiparental population of octoploid strawberry reveals QTL alleles conferring resistance to *Phytophthora cactorum*. *G3: Genes, Genomes, Genetics* 7: 1707-1719
9. Salvador A. Gezan, Luis F. Osorio, **Sujeet Verma**, Vance M. Whitaker (2017) An experimental validation of genomic selection in octoploid strawberry. *Horticulture Research* 4:16070 doi:10.1038/hortres.2016.70 <http://www.nature.com/articles/hortres201670>
10. Ranganath Mamidi, Jiayang Li, Kenneth S. Gresham, **Sujeet Verma**, Chang Yoon Doh, Amy Li, Sean Lal, Cristobal G. dos Remedios, and Julian E. Stelzer (2017) Dose-dependent effects of the myosin activator omecamtiv mecarbil on cross-bridge behavior and force generation in failing human myocardium. *Circulation: Heart Failure* 10:e004257 <http://circheartfailure.ahajournals.org/content/10/10/e004257>
11. **Sujeet Verma**, Nahla Bassil, Eric van de Weg, Richard Harrison, Amparo Monfort, J.M. Hidalgo, Iraidá Amaya, Beatrice Denoyes, Lise L. Mahoney, Tom M. Davis, Zhen Fan, Steven Knapp and Vance M. Whitaker (2016) Development and evaluation of the Axiom® IStraw35 384HT array for the allo-octoploid cultivated strawberry *Fragaria ×ananassa*. *Acta Horti* 1156: 75-82
12. Seonghee Lee, Younghee Noh, Jack Roach, Jozer Mangandi, **Sujeet Verma**, Vance Whitaker, Kelsey Cearley (2016) A high-throughput genotyping system combining rapid DNA extraction, high-resolution melting assay and allele specific endpoint genotyping: octoploid strawberry as a model for Rosaceae crops. *Acta Horti* 1156: 89-94
13. Vance Whitaker, Seonghee Lee, Luis F. Osorio, **Sujeet Verma**, Jack Roach, Jozer Mangandi, Younghee Noh, Salvador Gezan and Natalia Peres (2016) Advances in Strawberry Breeding at the University of Florida. *Acta Horti* 1156: 1-6
14. Chris R. Barbey, Foltá M. Foltá, Vance M. Whitaker, **Sujeet Verma** and Jinhe Bai (2016). Rapid volatile metabolomics and genomics in large strawberry populations segregating for aroma. *Acta Horti* 1156: 695-702
15. Younghee Noh, Jozer Mangandi, **Sujeet Verma**, Vance Whitaker, Yinghee Cha and Seonghee Lee (2016) Development of high-throughput markers for *Phytophthora* crown rot resistance in strawberry. PAG XXIV - *Plant and Animal Genome Conference*, San Diego, California
16. Younghee Noh, Jozer Mangandi, **Sujeet Verma**, Vance Whitaker and Seonghee Lee (2016) Application of high-throughput markers for *Phytophthora* crown rot resistance breeding in strawberry. *American Phytopathology Society Southern Division Meeting*, Gulf Coast Research and Education Center, Florida
17. Ranganath Mamidi, KS Gresham, **Sujeet Verma**, JE Stelzer (2016) Cardiac myosin binding protein-C phosphorylation modulates myofilament length-dependent activation. *Frontiers in physiology* 7

18. Nahla V. Bassil, Thomas M. Davis, Elisabeth Alperin, Iraida Amaya, Francois Bellon, Fiona Brew, Beatrice Denoyes, Thijs van Dijk, Herma Koehorst-van Putten, Stephen Ficklin, Amy Iezzoni, Lise Mahoney, Dorrie Main, Mike Mittman, Amparo Monfort, Cameron Peace, Ali Pirani, Umesh Rosyara, Daniel J. Sargent, Luca Bianco, Teresa Webster, David Wood, Yilong Yang, Hailong Zhang, Vance M. Whitaker, **Sujeet Verma**, Raul Herrera, Eric van de Weg (2015) Development and Preliminary Evaluation of a 90K Axiom SNP Array in the Allo-octoploid Cultivated Strawberry *Fragaria* × *ananassa*. *BMC Genomics* 16:155
19. Jack A. Roach, **Sujeet Verma**, Natalia Peres, Andrew Jamieson, Eric van de Weg, Marco Bink, Nahla Bassil, Vance M. Whitaker (2015) *FaRXf1*, a locus conferring resistance to angular leaf spot caused by *Xanthomonas fragariae* in octoploid strawberry. *Theor Appl Genet.* 1-11
20. Yingzhu Guan, Cameron Peace, David Rudell, **Sujeet Verma**, Kate Evans (2015) QTLs detected for individual sugars and soluble solids content in apple. *Molecular Breeding* 35: 1-13
21. Cari Schmitz, Mathew Clark, Jim Luby, J Bradeen, Yingzhu Guan, Kate Evans, Benjamin Orcheski, Susan Brown, **Sujeet Verma**, Cameron Peace (2013) Fruit texture phenotypes of the RosBREED U.S. apple reference germplasm set. *HortScience* 48:296-303

#### ***Extension and trade publication***

1. Seonghee Lee, Young-Hee Noh, **Sujeet Verma** and Vance M. Whitaker (2016) DNA, Technology, and Florida Strawberries. EDIS IFAS Extension publications HS1287 <http://edis.ifas.ufl.edu/pdf/HS/HS128700.pdf>
2. **Sujeet Verma** and Vance Whitaker (2016) A new technology enabling new advances in strawberry genetics. *Journal of Horticulture*, an editorial, Omics publication group
3. **Sujeet Verma** and Vance Whitaker (2015) Advances in strawberry genetics. *Berry Vegetables Times* newsletter, October edition

#### ***Submitted***

1. Chris Barbey, Seonghee Lee, **Sujeet Verma**, Vance M. Whitaker, Kevin Folta (2018) Strawberry disease resistance genes and expression quantitative trait loci (eQTL) in octoploid cultivars, with comparison to ancestral subgenome donors. *The Plant Journal* (TPJ-00928-2018)

#### ***In preparation***

1. **Sujeet Verma**, Kate Evans, Yingzhu Guan, Jim Luby, Umesh Rosyara, Nahla Bassil, Marco Bink, Eric van de Weg, Cameron Peace (2018) QTL Validation and the *Ma* locus functional haplotype characterization of apple fruit crispness within RosBREED Washington State University apple breeding program germplasm. *Tree Genet. Genomes*

#### ***International conference moderator***

1. American Society of Horticulture Science international conference, 2017, Hawaii.
2. American Society of Horticulture Science international conference, 2018, Washington DC.

#### **Conference Abstracts**

#### ***Recent***

1. Jason D. Zurn, Mulusew Fikere, **Sujeet Verma**, Iraida Amaya, Pilar Muñoz del Rio, José F. Sánchez-Sevilla, Helen Cockerton, Richard J. Harrison, Lise L Mahoney, Thomas M. Davis, James F. Hancock, Chad E. Finn, Megan M. Mathey, Jodi Neal, Hian-Lien Ko, Vance M Whitaker, Craig M. Hardner and Nahla Bassil (2019) A Global Analysis of Soluble Solids Content in Strawberry. ASHS, Las Vegas, NV
2. Vance M Whitaker, Luis Osorio, Salvador A. Gezan, Rex Bernardo and **Sujeet Verma** (2019) Impact on Strawberry Breeding: Genome-Wide Selection in Practice. ASHS, Las Vegas, NV

3. Youngjae Oh, Zhen Fan, Sadikshya Sharma, Yi-Tien Lu, Natalia Salinas, Jason D. Zurn, **Sujeet Verma**, Nahla Bassil, Vance M Whitaker and Seonghee Lee (2019) Current Progress and Challenges for DNA Marker Development and Application in Strawberry Breeding. ASHS, Las Vegas, NV
4. Sadikshya Sharma, Youngjae Oh, Jason D. Zurn, Saket Chandra, Yi-Tien Lu, Cheolmin Yoo, **Sujeet Verma**, Natalia Salinas, Zhen Fan, Cheryl Dalid, Nahla Bassil, Vance M Whitaker and Seonghee Lee (2019) Application of DNA Test for Disease Resistance and Fruit Quality in Cultivated Strawberry. ASHS, Las Vegas, NV
5. **Sujeet Verma**, Natalia Salinas, Jonathan Nelson, Chris Barbey, Natalia Peres, Kevin Folta, and Vance M. Whitaker (2018) An overview of recent QTL discovery for disease resistance and flavor in the UF strawberry breeding program. ASHS, Washington DC.
6. **Sujeet Verma**, Luis Osorio, Salvador Gezan, and Vance M. Whitaker (2018) Application of genome-wide selection in strawberry breeding at the University of Florida. ASHS, Washington DC.
7. **Sujeet Verma**, Jason Zurn, Natalia Salinas, Megan Mathey, Eric van de Weg, Beatrice Denoyes, James F. Hancock, Chad E. Finn, Nahla Bassil and Vance M Whitaker (2017) Identifying haplotypes for flowering and QTLs for fruit quality in the Michigan and Oregon strawberry (*Fragaria ×ananassa*) Breeding sets using pedigree-based analysis. ASHS, Hawaii.
8. **Sujeet Verma**, Luis Osorio and Vance M Whitaker (2017) Detection of a QTL for soluble solids content in the University of Florida strawberry (*Fragaria ×ananassa*) breeding program using pedigree-based analysis. ASHS, Hawaii.
9. **Sujeet Verma**, Jack Roach, Jozer Mangandi, Seonghee Lee, Natalia Salinas, Nahla Bassil, Marco Bink, Eric van de Weg, Cameron Peace, Amy Iezzoni, Vance Whitaker (2016). DNA-informed strawberry breeding in RosBREED. *Plant & Animal Genome Conference XXIV*, Fruit/Nuts Workshop 3094, San Diego, California
10. **Sujeet Verma**, Jozer Mangandi, Natalia Peres, Marco Bink, Eric van de Weg, Nahla Bassil, Vance Whitaker (2016) *Pc1*: a large-effect QTL conferring resistance to *Phytophthora cactorum* in strawberry. *Plant & Animal Genome Conference XXIV*, San Diego, California
11. **Sujeet Verma**, Jack Roach, Ashlee Anciro, Seonghee Lee, Sachiko Isobe, Andrew Jamieson, Nahla Bassil, Marco Bink, Eric van de Weg, Vance Whitaker (2016) QTL discovery and marker development for strawberry angular leaf spot caused by *Xanthomonas fragariae*. *Plant & Animal Genome Conference XXIV*, San Diego, California
12. Luis F. Osorio, Salvador Gezan, Vance Whitaker, **Sujeet Verma** (2016) Integration of genomic selection into the University of Florida strawberry breeding program. The 8<sup>th</sup> International Rosaceae Genomics (RGC) conference, June 2016, INRA, Angers, France
13. **Sujeet Verma**, Jozer Mangandi, Jack Roach, Natalia Peres, Nahla Bassil, Eric Van de Weg, Vance Whitaker (2015) Pedigree-based QTL detection for disease resistance and fruit quality traits: an overview of the University of Florida strawberry breeding population. ASHS
14. **Sujeet Verma**, Jozer Mangandi, Natalia Peres, Vance Whitaker (2015) QTL detection and allele mining for *Phytophthora cactorum* resistance in University of Florida strawberry breeding germplasm. ASHS
15. Jack Roach, **Sujeet Verma**, Natalia Peres, Andrew R. Jamieson, Eric van de Weg, Nahla Bassil, Vance M. Whitaker (2015) *FaRXf1*: a locus conferring resistance to *Xanthomonas fragariae* in Octoploid strawberry. ASHS

16. Jozer Mangandi, **Sujeet Verma**, Natalia A. Peres and Vance M. Whitaker (2015) Pedigree-based QTL mapping of resistance to two crown rot pathogens in allo-octoploid strawberry. NAPB, Pullman, Washington State
17. Seonghee Lee, Jack Roach, Jozer Mangandi, **Sujeet Verma**, Vance Whitaker, Nahla Bassil, Eric van de Weg, Andrew Jamieson, Allen Chambers and Kevin Folta (2015) Molecular markers and marker-assisted selection in UF strawberry breeding. *USDA/NIFA RosBREED Strawberry Workshop*, February, East Lansing, MI
18. Nicholas Howard, Matthew Clark, Cari Schmitz, James Luby, James Bradeen, Yingzhu Guan, Benjamin Orcheski, **Sujeet Verma**, Susan Brown, Kate Evans, Cameron Peace (2014) QTL mapping of soft scald in the RosBREED apple germplasm set. June, *RGC-VII* Seattle, WA
19. Matthew Clark, Nicholas Howard, Cari Schmitz, Yingzhu Guan, Benjamin Orcheski, **Sujeet Verma**, Susan Brown, Kate Evans, Cameron Peace, James Luby (2014) Dissecting the QTL dynamics of harvest date in apple (*Malus × domestica*). June, *RGC-VII* Seattle, WA
20. Ashley Powell, Paul Sandefur, **Sujeet Verma**, Kate Evans, Cameron Peace (2014) The power of two: maximizing predictive strength in breeding for apple acidity by combining DNA tests. June, *RGC-VII* Seattle, WA [Best poster award]
21. Terrence Frett, Alejandra A. Salgado, John R. Clark, **Sujeet Verma**, Paul Sandefur, Jonathan Fresnedo, Ksenija Gasic, Marco Bink, Eric van de Weg and Cameron Peace (2014) Pedigree Based QTL Analysis (PBA) for Fruit Traits in the University of Arkansas Peach Breeding Program. July, ASHS Orlando, FL

#### ***Previous conference abstracts***

1. **Sujeet Verma**, Natalia Salinas, Megan M. Mathey, Kazim GÜNDÜZ, Umesh Rosyara, Jim F. Hancock, Chad E. Finn, Iraida Amaya, Marco C. A. M. Bink, Daniel J. Sargent, Béatrice Denoyes, Vance M. Whitaker, Nahla V. Bassil, Cameron Peace, Amy F. Iezzoni, W. Eric Van de Weg (2014) QTL discovery and validation for soluble solids content, titratable acidity and remontancy within RosBREED strawberry germplasm. June, *RGC-VII* Seattle, WA
2. **Sujeet Verma**, Marcio Resende, Matias Kirst, Nahla V. Bassil, Eric Van de Weg, Vance M. Whitaker (2014) A comparison of genome-wide SNP markers in octoploid strawberry between the Affymetrix IStraw90 Axiom<sup>®</sup> array and a targeted sequencing approach. July, ASHS Orlando, FL
3. Cameron Peace, Jim Luby, Amy Iezzoni, **Sujeet Verma**, Matthew Clark, Cari Schmitz, Paul Sandefur, Susan Brown, Eric van de Weg, Kate Evans (2015) Exploiting the genetics of the top of apple's chromosome 16 for breeding. June, *RGC-VII* Seattle, WA
4. **Sujeet Verma**. QTL and QTL Allele Validation in Apple. Part of Workshop: RosBREED (2013) Fruit Quality QTLs: From Publications to Applications. ASHS, Palm Desert, CA
5. **Sujeet Verma**, Cari Schmitz, Matthew Clark, Yingzhu Guan, Benjamin Orcheski, Julia Harshman, Katherine M. Evans, Susan Brown, James R. McFerson, Nahla Bassil, Umesh Rosyara, Marco Bink, James Luby, Eric van de Weg, Amy Iezzoni, Cameron Peace (2013) Genome-wide QTL analyses uncover SNP marker based functional alleles for apple "Fresh Sensation" traits. ASHS, Palm Desert, CA
6. Yingzhu Guan, **Sujeet Verma**, Cameron Peace, David R. Rudell, Katherine Evans (2013) Genome-wide QTL Detection of Individual Sugars, Sensory Sweetness, and Soluble Solids Content in Apples. ASHS, Palm Desert, CA
7. **Sujeet Verma**. Department of Horticulture Seminar Series (Hort. 510) (2013) A predictive genetic test for apple "fresh sensation" provides strategies to improve breeding. Washington State University, Pullman

8. **Sujeet Verma** (2013) Recent “Fresh Sensation” Loci Discoveries Uncover New Jewels in the Apple Genome Using the RosBREED Dataset. Oral presentation at Dr. Wiley Research Exposition, Washington State University, Pullman
9. Cameron Peace, **Sujeet Verma**, Jim Luby, Kate Evans, Susan Brown, Matthew Clark, Yingzhu Guan, Benjamin Orcheski, Cari Schmitz, Nahla Bassil, Eric van de Weg, and Amy Iezzoni (2012) Jewels in the apple genome: RosBREED’s conversion of reported trait loci into DNA tests routinely used in breeding. *RGC VI*, Michele all'Adige – Italy
10. Cameron Peace, James Luby, Kate Evans, Susan K. Brown, Matthew Clark, Yingzhu Guan, Benjamin Orcheski, Cari Schmitz, **Sujeet Verma**, Nahla Bassil, Eric van de Weg, Amy F. Iezzoni (2012) Loci important for apple fruit quality: What is known about their functional alleles? ASHS, Miami, FL
11. Marco Bink, Cameron Peace, **Sujeet Verma**, Amy Iezzoni, Umesh Rosyara, Jansen J., Roeland E. Voorrips, Eric Van de Weg. Discovery and interpretation of multiple linked QTL (2012) *RGC VI*, Michele all'Adige – Italy
12. **Sujeet Verma**. A Predictive Genetic Test for Apple "Fresh Sensation" to Provide Strategies for Improved Breeding and Fruit Handling (2012) Dr. Wiley Research Exposition, Washington State University, Pullman
13. Cameron Peace, Jim Luby, Kate Evans, Susan Brown, Matthew Clark, Yingzhu Guan, Benjamin Orcheski, Cari Schmitz, **Sujeet Verma**, Nahla Bassil, Eric van de Weg, and Amy Iezzoni (2011) RosBREED enables marker-assisted breeding for apple. ASHS
14. **Sujeet Verma**. Department of Horticulture Seminar Series (Hort. 510) (2011) A predictive genetic test for apple “fresh sensation” provides strategies to improve breeding. Washington State University, Pullman
15. **Sujeet Verma**, Yingzhu Guan, Katherine M. Evans, James R. McFerson, Umesh Rosyara, Eric Van de Weg, Marco Bink, Jim Luby, Amy Iezzoni, Cameron Peace (2013) Functional haplotypes of apple acidity for the Washington apple breeding germplasm. RosBREED-IV annual meeting at MSU, East Lansing
16. **Sujeet Verma**, Cari Schmitz, Matthew Clark, Yingzhu Guan, Benjamin Orcheski, Katherine M. Evans, Susan Brown, James R. McFerson, Eric van de Weg, James Luby, Marco Bink, Nahla Bassil, Umesh Rosyara, Amy Iezzoni, Cameron Peace (2013) Recent Genome-wide QTL analysis using the RosBREED data set uncovers several SNP marker-based functional variants in the apple genome. Academic showcase, Washington State University, Pullman
17. **Sujeet Verma**, Yingzhu Guan, Katherine M. Evans, James R. McFerson, Eric van de Weg, Jim Luby, Cameron Peace (2012) Functional variants provide strategies to improve breeding for "fresh sensation" in apple. ASHS, Miami, FL
18. **Sujeet Verma**, Yingzhu Guan, Kate Evans, Jim McFerson, Eric Van de Weg, Jim Luby, Cameron Peace (2012) A predictive genetic test for apple "fresh sensation" to provide strategies for improved breeding and fruit handling. Washington State University, Academic Showcase, Pullman
19. **Sujeet Verma**, Yingzhu Guan, Kate Evans, Jim McFerson, Eric Van de Weg, Jim Luby, Cameron Peace (2012) Refining functional haplotypes for fresh sensation. The RosBREED Annual Meeting at MSU, East Lansing (MI)
20. **Sujeet Verma**, Yingzhu Guan, Kate Evans, Jim McFerson, Eric Van de Weg, Jim Luby, Susan K. Brown, Cameron Peace (Poster, presented by Dr. Evans) (2011) A predictive genetic test for apple "fresh taste" provides strategies for improved breeding and fruit handling. EUCARPIA, Warsaw, Poland

## Experience with teaching, training and supervising undergraduate and graduate students

### **2007 - Current**

1. August 2007 to May 2009 – Teaching assistant for Department of Horticulture and LA for class Hort. 231 and Hort. 232 at Washington State University, Pullman, WA.
2. Spring 2010 - Invited for a guest lecture for Hort/Crop science 202. Introduction to plant hormones and their effect on plant growth and development at Washington State University, Pullman.
3. Spring 2011 – Teaching assistant for Hort/Crop science 202. Conducted labs. Also delivered few lectures on introductory material (plant chemicals/metabolism and plant cells) at Washington State University, Pullman.
4. 2011 to 2014 – Trained and helped other fellow graduate students how to conduct QTL analysis using FlexQTL™ software.
5. Supervised *two graduate students* (M.S and Ph.D.), at University of Florida, how to conduct QTL analysis for their dissertation work that lead to the discovery of novel locus controlling disease resistance to strawberry angular leaf spot and crown rot and crown rot disease.
6. Currently training *graduate students* (M.S and Ph.D.), at University of Florida, how to conduct QTL analysis and genetic mapping and helping them towards their thesis work leading to the discovery of novel disease resistant loci and loci controlling volatile flavor compounds in octoploid strawberry. Teaching and training graduate students and University colleagues how to conduct pedigree-based QTL analysis using FlexQTL™ software.

### **Workshop organized**

1. FlexQTL™ software training and problem solving at WSU, Pullman, February 2013
2. FlexQTL™ software training at UF, Gainesville, August 2018.

### **Membership**

American Society of Horticulture Sciences (ASHS)