

RESUME – Massimo Iorizzo

1. Educational background:

- Ph.D., Agrobiolgy and Agrochemistry, 2009, University of Naples Federico II (Italy), “Genomic tools to study advanced potato lines obtained by genetic and genomics engineering”.
- B.S., Agricultural Science, 2005, University of Naples Federico II (Italy).

2. Professional experience:

- **Associate Director**, July 2024-present, Plants for Human Health Institute (PHHI), NC State University, Kannapolis, NC;
- **Associate Professor**, August 2020-present, Dept. of Horticultural Science, NC State University, Kannapolis, NC;
- **Assistant Professor**, July 2015-2020, Dept. of Horticultural Science, NC State University, Kannapolis, NC
- **Assistant Scientist and post-doctoral fellow**, April 2010-June 2015, University of Wisconsin-Madison, Department of Horticulture, Madison, Wisconsin

3. Scholarly and creative activities:

<u>REFEREED ACTIVITIES</u>	
<i>Journal articles</i>	94
<i>Book/Proceedings</i>	21
<i>Average/year</i>	7.7
<u>NON-REFEREED ACTIVITIES</u>	
<i>Posters and abstracts</i>	185
<i>Presentations/seminars (International)</i>	58
<i>Featured/keynote speaker (International)</i>	5
<i>Extension/Outreach articles and reports</i>	73
<i>Average/year</i>	21.4
<i>Total</i>	434
TOTAL AVERAGE/YEAR	28.9

4. **Funding:** Authored 43 proposals as PD, Co-PD, or Co-PI. Twenty-five (58%) proposals were funded, totaling over \$18.5M awarded; \$8.9M awarded to Dr. Iorizzo research program averaging \$0.99M/year.
5. **Mentoring and committee service:** Mentored and trained 40 graduate, undergraduate students, post-docs and visiting scientists in plant genetics and genomics.
6. **Membership in professional organizations:**
- National Association of Plant Breeding (2017-present);
 - American Society of Horticultural Science 2017-present;
 - International Phytomedomics and Nutriomics Consortium (2019-present);
 - Genetic Society of America (2017-2019); Sigma Xi (2017-2019).
7. **Scholarly awards and highlights:**
- Named NC State University Faculty Scholar, 2022;
 - Nominated member Sigma Xi, The Scientific Research Honor Society, 2021-present;
 - Outstanding Ph.D. thesis Award in plant breeding and plant genetics, Italian Association of Agricultural Scientific Societies, 2010;
 - Journal issue covers/highlights: *Nature* research highlights, Vol. 622, 221, 2023; *New Phytologist* issue cover, Vol. 237-3, 2023; *Nature Genetics* issue cover, Vol. 48-6, 2016; *HortScience* issue cover, Vol. 53-7, 2018; *Genetics* issue cover, Vol. 210-4, 2018; *American Journal of Botany*, issue highlights, Vol. 104-2, 2017.

8. Professional service on campus:

NCSU- University Service/College

Member – CALS Research Committee (CRC) – 2023-present; Emerging Research Showcase Steering Committee 2023-2024; Plant breeding consortium – bioinformatics support advisory committee, 2020-2022; Organizing committee workshop: Computing Skills in Plant Breeding, 2022; CALS, Plant Sciences Initiative Programming Group J interviews, 2016; NCSU-GSL, panel discussion for acquisition of a Pacific Bioscience Sequel sequencing machine, 2016; Plant breeding consortium – working group, 2019-present. Graduate Student Representative, Nutrition program, 4 MS/PhD students, 2015-present.

NCSU - Search committee

- **Chair** – Assistant Professor, Vegetable molecular breeding for sustainable production, 2023-present
- **Member** – Advanced Nutrigenomics of Bioactive Phytochemicals, 2024-present; Translational Phenomics, 2022-2023; Translational Food Science and Nutrition, 2015 Regenerative Medicine, 2015; PHHI Business Director Search Committee, 2017.

NCSU - Departmental service, Horticultural Science and Plants for Human Health Institute

- **Chair** – Post-Tenure Review committee, 2022-2023; Strategic Plan, Crop improvement group, 2021-2023.
- **Member** – Advisory committee, 2019-2022; Department of Hort Sci Strategic plan Executive Committee, 2019-present; Post-Tenure Review committee, 2020-2022; Graduate admission committee, 2015-2019, 2023-present; Fruits working group committee, 2015-2016; Vegetables working group committee, 2015-2016; Awards and Nominations committee, 2016; Plant Elucidation Pathway technical committee, 2015-2020; Graduate Student Representative, Nutrition program, 2015-present.

9. Professional service off campus:

- **National working groups/projects:** **Chair** – ASHS, Genetic and Germplasm working group, 2020-2022; **Member** – Small Fruits Crop Germplasm Committee, National Germplasm System, 2016-present; **Member** – Advisory Board member for the project: Tools for Polyploids - 2020-present.
- **National and International conferences:** **International: Organizer/Chair** – 41st International Carrot Conference, Raleigh July 9-10, 2023-2024; **Chair/moderator** – Fruit and Nut Workshop at the International Plant and Animal Genome conference 2018; Blueberry Europe 2019; ISHS Carrot International Symposium 2018; ISHS Vaccinium International Symposium 2021; Apiaceae Workshop at the International Plant and Animal Genome conference, 2022; IHC - Breeding and effective use of biotechnology and molecular tools in horticultural crops, Angers, 2022; **Member** – Scientific committee, International Vaccinium Symposium Scientific Committee, 2023-2024. **National: Chair** – Fruit Breeding workshop, ASHS 2023.
- **Academic service outside NCSU:** **International: Member** - PhD program committee, Environmental Health Sciences, University of Ferrara (Italy). **National: Reviewer** for tenure promotion, The Ohio State University
- **Reviewer for funding agencies:** **International:** United States – Israel Binational Agricultural Research & Development Fund (BARD)(2); Canada Foundation for Innovation (1); Chilean National Research and Development Agency (1). **National:** USDA-NIFA Hatch project (3); USDA-NIFA Special Grant for Potato Breeding Research (1); National Science Foundation (1); Foundation for Food and Agriculture Research (FFAR) (5).
- **Reviewer for journals:** reviewer for 55 journals (127 articles) 2014-present.
- **Consultant** - Served as external industry consultant to review research proposal, 2019
- **Editorial Board:** Associate editor for *Frontier in Plant Science*; **Guest editor** for five Research Topics in *Frontier in Plant Science* (2020, 2023 and 2024), *Plants* (two in 2021).

Publications

Scientific production indices

Google scholar statistics, link [here](#)

Refereed Publications:

JOURNAL ARTICLES – (Dr. Iorizzo in **bold**, *indicates Dr. Iorizzo as corresponding authors, † indicate Dr. Iorizzo as co-first author).

1. Canales E., R.K. Gallardo, **M. Iorizzo**, P. Munoz, L.F. Ferrão, C. Luby, N. Bassil, M. Pottorff, P. Perkins-Veazie, P. Sandefur, A. Colonna, C. Sims. 2024. Willingness to Pay for Blueberries: Sensory attributes, fruit quality traits, and consumers' characteristics. *HortScience*, (*In press*).
2. Ivarsson J., A. Bennett, F. Ferrara, R. Strauch, A. Vallase, **M. Iorizzo**, A. Pecorelli, M.A. Lila and G. Valacchi. 2024. Gut-derived wild blueberry phenolic acid metabolites modulate extrinsic cutaneous damage. *Food & Function*, (*In press*).
3. Mengist M.F., M. Pottorff, T. Mackey, F. Ferrao, G. Casorzo, M.A. Lila, C. Luby, L. Giongo, P. Perkins-Veazie, N. Bassil, P. Munoz and **M. Iorizzo***. 2024. Assessing predictability of post-storage texture and appearance characteristics in blueberry at breeding population level. *Postharvest biology and technology*, 214, 2024, 112964.
4. Zhao D., M. Sapkota, J. Glaubitz, N. Bassil, M.F. Mengist, **M. Iorizzo**, K. Heller-Uszynska, M. Mollinari, C.T. Beil, M.J. Sheehan. 2024. A public mid-density genotyping platform for cultivated Blueberry. *Genetic Resources*, 5(9), pp. 36 – 44.
5. Ma X., R.K. Gallardo, E. Canales, A. Atucha, J. Zalapa and **M. Iorizzo**. 2024. Consumers discount for added sugars: An exploratory analysis of two cranberry products under different nutrition-related information treatments. *Journal of the Agricultural and Applied Economics Association*, (*in press*).
6. Ma X., R.K. Gallardo, E. Canales and **M. Iorizzo**. 2024. Quality-related descriptors to increase fresh blueberries purchase - evidence from a basket-based choice experiment. *Journal of the Agricultural and Applied Economics Association*, 1 – 20.
7. Munoz B., M. Hayes, P. Perkins-Veazie, N. Gillit, M. Munoz, C. Kay, M.A. Lila, M. Ferruzzi and **M. Iorizzo***. 2024. Genotype and ripening method affect carotenoid content and bioaccessibility in banana. *Food and Function*, 15, 3433 – 3445.
8. Ma X., R.K. Gallardo, E. Canales, A. Atucha, J. Zalapa and **M. Iorizzo**. 2024. Would consumers accept CRISPR fruit crops if the benefit has health implications? an application to cranberry products. *Agricultural and Resource Economics Review*, 2024:1 – 23.
9. Clare S.J., M. Driskill, T.R. Millar, D. Chagne, S. Montanari, S. Thomson, R.V. Espley, P.R. Munoz, J. Benevenuto, D. Zhao, M. Sheehan, M.F. Mengist, L.J. Rowland, H. Ashrafi, K. Melmaiee, K.P. Kulkarni, E.M. Babiker, D. Main, J. Olmstead, J. Gilbert, P. Havlak, H. Hung, J. Kniskern, D. Percival, P. Edger, **M. Iorizzo** and N.V. Bassil. 2024. Development of a targeted genotyping platform for reproducible results within tetraploid and hexaploid blueberry. *Frontiers in Horticulture*, 2:1339310.
10. Farneti B., L. Giongo, F. Emanuelli, P. Toivonen, K. Folta and **M. Iorizzo**. 2023. Editorial: Interdisciplinary Approaches to Improve Quality of Soft Fruit Berries II. *Frontier in Plant Science*, 14:1341519.

11. Trandel M., S. Johanningsmeier, H. Oh, **M. Iorizzo** and P. Perkins-Veazie. Blueberry cell wall polysaccharide composition of three distinct fruit firmness phenotypes. 2023. *Food Science & Technology*, 3, 11, 1920-1930.
12. Oh H., M. Pottorff, L. Giongo, C.M.M. Mainland, **M. Iorizzo*** and P. Perkins-Veazie. 2023. Exploring shelf-life predictability of appearance traits and fruit texture in blueberry. *Postharvest biology and technology*, 112643.
13. Yow A.G., K. Laosuntisuk, R. Young, C. J. Doherty, N. Gillitt, P. Perkins-Veazie, Qiu-Yun (Jenny) Xiang and **M. Iorizzo***. 2023. Comparative transcriptome analysis reveals candidate genes for cold stress response and early flowering in pineapple. *Scientific Report*, 13, 18890 (2023).
14. Yocca A.E., A. Platts, E. Alger, S. Teresi, M.F. Mengist, L.F. V. Ferrão, J. Benevenuto, M. Jacobs, M. Babinski, P. Bayer, A. Golicz, J. L Humann, D. Main, R.V. Espley, D. Chagné, N.W. Albert, S. Montanari, N. Vorsa, J. Polashock, L. Díaz, J. Zalapa, N.V. Bassil, P.R. Munoz, **M. Iorizzo** and P.P. Edger. 2023. Blueberry and cranberry pangenomes as a resource for future genetic studies and breeding efforts. *Hort Research*, 10(11), November 2023, uhad202.
15. Coe K., H. Bostan, W. Rolling, S. Turner-Hissong, A. Macko-Podgórní, D. Senalik, S. Liu, J. Curaba, M.F. Mengist, R.Seth, D. Grzebelus, A. Van Deynze, J. Dawson, S. Ellison, P. Simon and **M. Iorizzo***. 2023. Analysis of global carrot germplasm identifies genomic signatures of domestication and improvement and uncovers the origin of high carotenoid orange carrots. *Nature Plants*, 9, 1643–1658. **Selected for Nature Research Highlights.**
16. D'Amelia V., J. Curaba, S. Esposito, P. Cavagnaro, D. Carputo and **M. Iorizzo***. 2022. Functional characterization of DcMYB11, a R2R3 MYB associated with the purple pigmentation of carrot petiole. *Planta*, 258, 50 (2023).
17. Yow A.G, H. Bostan, R. Young, G. Valacchi, N. Gillitt, P. Perkins-Veazie, Q. Xiang and **M. Iorizzo***. 2023. Identification of bromelain subfamily proteases encoded in the pineapple genome. *Scientific Report*, 13, 11605 (2023).
18. Pérez M.B., S. Carvajal, V. Beretta, F. Bannoud, M.F. Fangio, M.S. Churio, F. Berli, A. Fontana, M.V. Salomón, R. Gonzalez, L. Valerga, J.C. Altamirano, **M. Iorizzo**, P.W. Simon and P.F. Cavagnaro. 2023. Characterization of purple carrot germplasm for antioxidant capacity and root concentration of anthocyanins, phenolics, and carotenoids. *Plants* 2023, 12, 1796.
19. Lopez-Moreno H., M. Phillips, L. Diaz-Garcia, M.A. Torres-Meraz, F. de La Torre, I. Berro, J. Loarca, J. Mura, S. Ikeda, A. Atucha, L. Giongo, **M. Iorizzo** and J. Zalapa. 2023. A Survey of key methods, traits, parameters, and conditions for measuring texture in cranberry (*Vaccinium macrocarpon* Ait.). *Horticulturae*, 2023; 9(4):479.
20. Albert N.W., **M. Iorizzo**, M.F. Mengist, S. Montanari, P. Boas, J. Zalapa, A. Maule, A. Yocca, P.P. Edger and R.V. Espley. 2023. Vaccinium as a comparative system for understanding of complex flavonoid accumulation profiles and regulation in fruit. *Plant Physiology* 192(3), 1696–1710.
21. Herniter I.A., Y. Kim, Y. Wang, J.S. Havill, J. Johnson-Cicalese, G.J. Muehlbauer, **M. Iorizzo** and N. Vorsa. 2023. Trait mapping of phenolic acids in an interspecific (*Vaccinium corymbosum* var. *caesariense* x *V. darrowii*) diploid blueberry population. *Plants*, 12(6), 1346.
22. Manzanero B.R., K.P. Kulkarni, N. Vorsa, U.K. Reddy, P. Natarajan, S. Elavarthi, **M. Iorizzo**, and K. Melmaiee. 2023. Genomic relationships among wild and cultivated blueberry species. *BMC Plant Biology*, 23, 126 (2023).
23. Boas P. and **M. Iorizzo***. 2022. Apiaceae FNS I originated from F3H through tandem gene duplication. *PLoS ONE*, 18(1): e0280155.

24. W.R. Rolling, D. Senalik, **M. Iorizzo**, S. Ellison, A. Van Deynze and P.W. Simon. 2022. CarrotOmics: a genetics and comparative genomics database for carrot (*Daucus carota*). *Database*, Volume 2022, 2022, baac079.
25. Mengist M.F., M.H. Grace, T. Mackey, B. Munoz, B. Pucker, N.V. Bassil, C. Luby, M. Ferruzzi, M.A. Lila and **M. Iorizzo***. 2022. Dissecting the genetic basis of bioactive metabolites and fruit quality traits in blueberries (*Vaccinium corymbosum* L.). *Frontier in Plant Science*, 13:964656.
26. Mengist M.F., H. Bostan, D. De Paola, S.J. Teresi, A. Platts, G. Cremona, X. Qi, T. Mackey, N.V. Bassil, H. Ashrafi, L. Giongo, R. Jibrán, D. Chagné, L. Bianco, C. Finn, M.A. Lila, L.J. Rowland, M. Iovene, P.P. Edger and **M. Iorizzo***. 2022. Autopolyploid inheritance and a heterozygous reciprocal translocation shape chromosome genetic behavior in tetraploid blueberries. *New Phytologist*, 237: 1024-1039. **Issue cover.**
27. Grace M.G., R.T. Hoskin, M. Hayes, **M. Iorizzo**, C. Kay, M.G. Ferruzzi and M.A. Lila. 2022. Spray-dried and freeze-dried protein-spinach particles; effect of drying technique and protein type on the bioaccessibility of carotenoids, chlorophylls, and phenolics. *Food Chemistry*, 388, 2022, 133017.
28. Perez M.B., M.J. Da Peña Hamparsomian, R.E. Gonzalez, G.I. Denoya, D.L.E. Dominguez, K. Barboza, **M. Iorizzo**, P.W. Simon, S.R. Vaudagna and P. F. Cavagnaro. 2022. Physicochemical characteristics, degradation kinetics and antioxidant capacity of anthocyanin-based aqueous extracts of purple carrots, compared to synthetic and natural colorants. *Food chemistry*, 387, 2022, 132893.
29. Lila M.A., R. Hoskin, M.G. Grace, J. Xiong, R. Strauch, M.G. Ferruzzi, **M. Iorizzo** and C. Kay. 2022. Boosting the bioaccessibility of dietary bioactives by delivery as aggregated protein-polyphenol particles. *Journal of Agricultural and Food Chemistry*, 70, 41, 13017–13026.
30. Edger P., **Iorizzo*** **M.** et al. 2022. There and back again; historical perspective and future directions for *Vaccinium* breeding and research studies. *Hort. Research*, 9, 2022, uhac083.
31. Hayes M., Z. Mohamedshah, S. Corbin, R. Hoskin, A. Neilson, **M. Iorizzo**, M.A. Lila and M.G. Ferruzzi. 2022. Bioaccessibility and intestinal cell uptake of carotenoids and chlorophylls differs in powdered spinach by ingredient form as measured with an in vitro gastro-intestinal digestion anaerobic fecal fermentation model. *Food and Function*, 13, 3825-3839.
32. Yow A.G., H. Bostan, R. Castanera, V. Ruggieri, **J. Curaba**, R. Young, N. Gillitt and **M. Iorizzo***. 2022. An improved high-quality genome assembly and annotation of pineapple (*Ananas comosus*) cultivar MD2 revealed extensive haplotype diversity and expanded FAR1 gene family. *Genes*, 13, 52.
33. Bannoud F., S. Carvajal, S. Ellison, D. Senalik, S.G. Talquenca, **M. Iorizzo**, P. Simon and P.F. Cavagnaro. 2021. Genetic and transcription profile analysis of tissue-specific anthocyanin pigmentation in carrot root phloem. *Genes* 2021, 12, 1464.
34. Diaz J.T, E. A. Foegeding, L. Stapleton, C. Kay, M.G. Ferruzzi, **M. Iorizzo**, and M.A. Lila. 2021. Foaming and sensory characteristics of protein-polyphenol particles in a food matrix. *Food Hydrocolloids* 123, 107148.
35. Giongo L., M. Ajelli, **M. Pottorff**, P. Perkins-Veazie and **M. Iorizzo**. 2021. Comparative multi-parameters approach to dissect texture subcomponents of blueberry at harvest and postharvest. *Postharvest Biology and Technology*, 83, 2022, 111696.
36. Mengist M.F., H. Bostan, E. Young, K. Kay, H. Ashrafi, N. Gillitt, J. Ballington, M.G. Ferruzzi, M.A. Lila and **M. Iorizzo***. 2021. High density linkage map construction and identification of loci regulating fruit quality traits in blueberry. *Hort. Research*, 8, 169 (2021).

37. Hayes M. S. Corbin, C. Nunn, M. Pottorff, C. Kay, M.A. Lila, **M. Iorizzo** and M.G. Ferruzzi. 2021. Influence of simulated food and oral processing on carotenoid and chlorophyll in vitro bioaccessibility among six spinach genotypes. *Food and Function*, 12, 7001-7016.
38. Qi X., E.L. Ogden, D.J. Sargent, H. Boston, J. Ward, J. Gilbert, **M. Iorizzo** and L.J. Rowland. 2021. High-density map construction and QTL identification in a diploid blueberry mapping population. *Frontier in Plant Science*, 12:692628.
39. Hulse-Kemp A.M., H. Bostan, S. Chen, H. Ashrafi, K. Stoffe, W. Sanseverino, L. Li, S. Cheng, M. Schatz, T. Garvin, E. Tseng, J. Chin, **M. Iorizzo*** and A. Van Deynze. 2021. An improved chromosome-scale anchored genome assembly and annotation of spinach (*Spinacia oleracea*) reveals extensive gene rearrangements in euasterids. *The Plant Genome*, 14(2):e20101.
40. Diaz-Garcia L., L.F. Garcia-Ortega, M.G. Rodríguez, L. Delaye, **M. Iorizzo** and J. Zalapa. 2021. Chromosome-level genome assembly of the American cranberry (*Vaccinium macrocarpon* Ait.) and its wild relative *Vaccinium microcarpum*. *Frontier in Plant Science*, 12:633310
41. Kulkarni K.P., N. Vorsa, P. Natarajan, S. Elavarthi, **M. Iorizzo**, U.K. Reddy and K. Melmaiee. 2020. Genetic admixture analysis of northern- and southern highbush blueberries using genotyping-by-sequencing (GBS). *International Journal of Molecular Science*, 22:163.
42. Mengist M.F., H. Burtch, H. Debelo, M. Pottorff, H. Bostan, C. Nunn, S. Corbin, C.D. Kay, N. Bassil, K. Hummer, M.A. Lila, M. Ferruzzi and **M. Iorizzo***. 2020. Diversity of phenolic bioaccessibility in blueberry germplasm: towards the development of a genetic framework to improve the efficiency of bioactive delivery. *Scientific Report*, 10, 17311.
43. **Iorizzo M.***†, J. Curaba, M. Pottorff, G.M. Ferruzzi, P. Simon. and P. Cavagnaro. 2020. Carrot anthocyanins genetics and genomics: status and perspectives to improve its application for the food colorant industry. *Genes*, 11: 906.
44. Farneti B., F. Emanuelli, L. Giongo, P. Toivonen, **M. Iorizzo**, K.M. Folta and C.E. Finn. 2020. Editorial: Interdisciplinary approaches to improve quality of soft fruit berries. *Frontiers in Plant Science*, 11:592222. IF=4.4.
45. Hayes M., M. Pottorff, C. Kay, A. Van Deynze, J. Osorio-Marin, M.A. Lila, **M. Iorizzo*** and M.G. Ferruzzi. 2020. In vitro bioaccessibility of carotenoids and chlorophylls in a diverse collection of spinach accessions and commercial cultivars. *Journal of Agriculture and Food Chemistry*, 68, 11, 3495–3505.
46. Mengist M.F., M.H. Grace, J. Xiong, C.D. Kay, N. Bassil, K. Hummer, M. Ferruzzi, M.A. Lila and **M. Iorizzo***. 2020. Diversity in metabolites and fruit quality traits in blueberry enables ploidy and species differentiation and establishes a strategy for bioactive genetic studies. *Frontiers in Plant Science*, 11:370.
47. Curaba J., H. Bostan, P. Cavagnaro, D. Senalik, M.F. Mengist, Y. Zhao, P. Simon and **M. Iorizzo***. 2020. Identification of an SCPL gene controlling anthocyanin acylation in carrot (*Daucus carota* L.) root. *Frontiers in Plant Science*, 10:1770.
48. Strauch R.C., M.F. Mengist, K. Pan, G.G. Yousef, **M. Iorizzo**, A.F. Brown and M.A. Lila. 2019. Variation in anthocyanin profiles of 27 cultivars of red cabbage over two growing seasons. *Food Chemistry*, 301:125289.
49. Bannoud F., S. Ellison, M. Paolinelli, T. Horejsi, D. Senalik, M. Fanzone, **M. Iorizzo**, P.W. Simon and P.F. Cavagnaro. 2019. Dissecting the genetic control of root and leaf tissue-specific anthocyanin pigmentation in carrot (*Daucus carota* L.). *Theoretical and Applied Genetics*, 132:2485-2507.

50. Villano C., S. Esposito, F. Carucci, **M. Iorizzo**, D. Carputo and R. Aversano. 2018. High-throughput genotyping in onion reveals structure of genetic diversity and informative SNPs useful for molecular breeding. *Molecular breeding*, 39:5.
51. **Iorizzo M.**^{†*}, P.F. Cavagnaro, H. Bostan, Y. Zhao, J. Zhang and P.W. Simon. 2018. A cluster of MYB transcription factors regulates anthocyanin biosynthesis in carrot (*Daucus carota* L.) root and petiole. *Frontier in Plant Science*, 9:1927.
52. Ellison A.L., C.H. Luby, K. Corak, K. Coe, D. Senalik, **M. Iorizzo**, I.L. Goldman, P.W. Simon and J.C. Dowson. 2018. Carotenoid presence is associated with the *Or* gene in domesticated carrot. *Genetics*, 210:1497-1508. **Issue cover.**
53. Gallardo R.K., Q. Zhang, M. Dossett, J. Polashock, C.Rodriguez-Saona, N. Vorsa, P.P. Edger, H. Ashrafi, E. Babiker, C.E. Finn and **M. Iorizzo**^{*}. 2018. Breeding trait priorities of the blueberry industry in the United States and Canada. *HortScience*, 53:1021-1028. **Issue cover.**
54. Gallardo R.K., Q. Zhang, J. Polashock, A. Atucha, J. Zalapa, C. Rodriguez-Saona, N. Vorsa, and **M. Iorizzo**^{*}. 2018. Breeding trait priorities of the cranberry industry in the United States and Canada. *HortScience*, 53:1467-1474.
55. Machaj G., H. Bostan, A. Macko-Podgorni, **M. Iorizzo** and Dariusz Grzebelus. 2018. Comparative transcriptomics of root development in wild and cultivated carrots. *Genes*, 9:431.
56. Covarrubias-Pazarán G., B. Schlautman, L. Diaz-Garcia, E. Grygleski, J. Polashock, J. Johnson-Cicalese, N. Vorsa, **M. Iorizzo** and J. Zalapa. 2018. Validating multivariate genomic selection and genome-wide association methods for cranberry breeding. *Frontier in Plant Science*, 9:1310.
57. Schlautman B., L. Diaz-Garcia, G. Covarrubias-Pazarán, N. Schlautman, N. Vorsa, J. Polashock, E.L. Ogden, A. Brown, Y.-C. Lin, **M. Iorizzo**, L.J. Rowland and J. Zalapa. 2018. Comparative genetic mapping reveals synteny and collinearity between the America cranberry and diploid blueberry genomes. *Molecular Breeding*, 38:9.
58. Ellison S., D. Senalik, H. Bostan, **M. Iorizzo** and P. Simon. 2017. Fine mapping, transcriptome analysis, and marker development for *Y₂*, the gene that conditions beta-carotene accumulation in carrot (*Daucus carota* L.). *G3*, 7:2665-2675.
59. Schlautman B., G. Covarrubias-Pazarán, L. Diaz-Garcia, **M. Iorizzo**, J. Polashock, E. Grygleski, N. Vorsa and J. Zalapa. 2017. Construction of a high-density American cranberry (*Vaccinium macrocarpon*) composite map using genotyping-by-sequencing for multi-pedigree linkage mapping. *G3*, 7:1177-1189.
60. Spooner D.M., H. Ruess, **M. Iorizzo**, D. Senalik and P. Simon. 2017. Entire plastid phylogeny of the carrot genus (*Daucus*, *Apiaceae*); concordance to nuclear data and mitochondrial and nuclear DNA Insertions to the plastid. *American Journal of Botany*, 104:296-312. **Selected for AJB February Highlights.**
61. Macko-Podgórní A., G. Machaj, K. Stelmach, D. Senalik, E. Grzebelus, **M. Iorizzo**, P.W. Simon and D. Grzebelus. 2017. Characterization of a genomic region under selection in cultivated carrot (*Daucus carota* subsp. *sativus*) reveals a candidate domestication gene. *Frontier in Plant Science*, 8:12.
62. Mandel J.R., A.J. Ramsey, **M. Iorizzo** and P.W. Simon. 2016. Patterns of gene flow between crop and wild carrot, *Daucus carota* (*Apiaceae*) in the United States. *PLoS One*, 11(9):e0161971.

63. **Iorizzo M.**, S. Ellison, D. Senalik, P. Zeng, P. Satapoomin, M. Bowman, M. Iovene, W. Sanseverino, P. Cavagnaro, M. Yildiz, A. Macko-Podgórní, E. Moranska, E. Grzebelus, D. Grzebelus, H. Ashrafi, Z. Zheng, S. Cheng, D. Spooner, A. Van Deynze and P. Simon. 2016. A high-quality carrot genome assembly reveals new insights into carotenoid accumulation and Asterid genome evolution. *Nature Genetics* 48:657–666. **Issue cover.**
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BOOKS

1. Cavagnaro P.F., F. Dunemann, R. Selvakumar, **M. Iorizzo** and P.W. Simon. 2024 Carrot. In: Compendium of Crop Nutraceuticals. Springer International Publishing, (In press).
2. **M. Iorizzo***, **M.F. Mengist**, and N. D'Agostino. Perspectives of Advanced Genetics and Genomics Approaches to Exploit Solanum Wild Crop Relatives for Breeding. In: Carputo, D., Aversano, R., Ercolano, M.R. (eds) The Wild Solanums Genomes. Compendium of Plant Genomes. Springer, Cham. https://doi.org/10.1007/978-3-030-30343-3_13
3. Bostan H., D. Senalik, P.W. Simon, and **M. Iorizzo*** 2019. Carrot Genetics, Omics and Breeding Toolbox. In: Simon P., Iorizzo M., Grzebelus D., Baranski R. (eds) The Carrot Genome. Compendium of Plant Genomes. Springer, Cham.
4. **Iorizzo M.***, S. Ellison, **M. Pottorff** and P. Cavagnaro. 2019. Carrot Molecular Genetics and Mapping. In: Simon P., Iorizzo M., Grzebelus D., Baranski R. (eds) The Carrot Genome. Compendium of Plant Genomes. Springer, Cham.
5. Spooner D.M., P.W. Simon, D. Senalik and **M. Iorizzo**. 2019. Carrot Organelle Genomes: Organization, Diversity and Inheritance. In: Simon P., Iorizzo M., Grzebelus D., Baranski R. (eds) The Carrot Genome. Compendium of Plant Genomes. Springer, Cham.
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8. Cavagnaro P.F. and **M. Iorizzo**. 2019. Carrot Anthocyanin Diversity, Genetics and Genomics. In: Simon P., Iorizzo M., Grzebelus D., Baranski R. (eds) The Carrot Genome. Compendium of Plant Genomes. Springer, Cham.
9. Mann H., **M. Iorizzo**, L. Gao, N. D'Agostino, D. Carputo, M.L. Chiusano and J.M. Bradeen. 2011. Molecular linkage maps: strategies, resources and achievements. Pages 68-89 in: Genetics, Genomics and Breeding of Potato. Bradeen and C. Kole, eds. CRC Press/Science Publishers, Enfield, NH.

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10. Simon P., **M. Iorizzo**, D. Grzebelus and R. Baranski. 2019. The Carrot Genome. Compendium of Plant Genomes. Springer International Publishing.

PEER-REVIEWED CONFERENCE PROCEEDINGS

1. **Iorizzo M.**, K. Coe, H. Bostan, W. Rolling, S. Turner-Hissong, A. Macko-Podgórní, D. Senalik, R. Seth, S.Liu, J. Curaba, M.F. Mengist, D. Grzebelus, A. Van Deynze, J. Dawson, S. Ellison and P. Simon. Recent advances in characterizing the carrot genome. Proceedings of the III International Symposium on Carrot and Other Apiaceae. (In press).
2. **Iorizzo M.**, M.A. Lila, P. Perkins-Veazie, M. Pottorff, C. Finn, N. Vorsa, P. Edger, N. Bassil, P. Munoz, J. Zalapa, K.R. Gallardo, A. Atucha, D. Main, L. Giongo, C. Li, J. Polashock, C. Sims, E. Canales, L. M. Coe, D. Chagne, R. Espley and L. De Vetter. 2023. VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. Proceedings of the XII International Vaccinium Symposium. *Acta Hort.* 1357, 411-425.
3. Giongo L., M. Ajelli, M. Pottorff, K. Coe, P. Perkins-Veazie, N.V. Bassil, K.E. Hummer, B. Farneti, and **M. Iorizzo**. 2023. Comparative study on texture: a key for blueberry quality breeding. *Acta Hort.* 1357, 107-114.
4. Perkins-Veazie P., G. Ma, M. Pottorff, M.A. Lila and **M. Iorizzo**. 2023. New tools for rapid fruit quality analysis in blueberry. *Acta Hort.* 1357, 193-198.
5. Humann, J.L., C.-H. Cheng, T. Lee, K. Buble, S. Jung, J. Yu, P. Zheng, H. Hough, J. Crabb, M. Frank, K. Scott, **M. Iorizzo** and D. Main. 2023. Using the Genome Database for Vaccinium for genetics, genomics, and breeding research. *Acta Hort.* 1357, 115-122.
6. **Iorizzo M.**, M.A. Lila, P. Perkins-Veazie, N. Vorsa, P. Edger, N. Bassil, P. Munoz, J. Zalapa, K.R. Gallardo, A. Atucha, D. Main, L. Giongo, C. Li, J. Polashock, C. Sims, E. Canales, L. M. Coe, D. Chagne, R. Espley and L. De Vetter. 2022. VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. Proceedings of the ISHS International Symposium on Breeding and Effective Use of Biotechnology and Molecular Tools in Horticultural Crops. *Acta Hort.* 1362, 71-80.
7. **Iorizzo M.**, M. Pottorff, H. Bostan, S.L. Ellison, P.F. Cavagnaro, D. Senalik, D.M. Spooner and P.W. Simon. 2019. Recent advance in carrot genomics. ISHS Acta Horticulturae 1264: Proceedings of the II International Symposium on Carrot and Other Apiaceae. 10.17660/ActaHortic.2019.1264.9.
8. Cavagnaro P.F., F. Bannoud, **M. Iorizzo**, D. Senalik, S.L. Ellison and P.W. Simon. 2019. Carrot anthocyanins: nutrition, diversity and genetics. ISHS Acta Horticulturae 1264: International Symposium on Carrot and Other Apiaceae. 10.17660/ActaHortic.2019.1264.11.
9. Arbizu Berrocal C.I., H. Ruess, D.A. Senalik, **M. Iorizzo**, K. Reitsma, P.W. Simon and D. Spooner. 2017. Integrated molecular and morphological studies of *Daucus*. ISHS Acta Horticulturae 1153: International Symposium on Carrot and Other Apiaceae. 2-s2.0-85017532303.
10. Ellison S., **M. Iorizzo**, D. Senalik and P.W. Simon. 2017. The next generation of carotenoid studies in carrot (*Daucus carota* L.). ISHS Acta Horticulturae 1153: International Symposium on Carrot and Other Apiaceae. 2-s2.0-85017568487.
11. **Iorizzo M.**, S. Ellison, D. Senalik, K. Stoffel, P. Zeng, M. Iovene, P. Cavagnaro, M. Yildiz, H. Ashrafi, Z. Zheng, S. Cheng, D. Spooner, A. Van Deynze and P. Simon. 2017. Recent advance in carrot genomics. ISHS Acta Horticulturae 1153: International Symposium on Carrot and Other Apiaceae. 2-s2.0-85017539701.

Non-Refereed Publications:

POSTER PRESENTATIONS

1. Lopez-Moreno H., M. Phillips, L. Diaz-Garcia, M. A. Torres-Meraz, J.D. Mura, S. Ikeda, J. Johnson-Cicalese, N. Vorsa, **M. Iorizzo**, J. Neyhart and J. Zalapa. Phenomics of Processing Industry Fruit Quality Traits for Genetic Mapping in the American Cranberry (*Vaccinium macrocarpon* Ait.). ASHS 2023 Annual Conference, July 31-August 4, 2023, Orlando, FL, USA.
2. Perkins-Veazie P., **M. Iorizzo** and C.M. Mainland. Fruit Composition and Quality of Blueberries Held in Warm or Cold Storage Conditions. ASHS 2023 Annual Conference, July 31-August 4, 2023, Orlando, FL, USA.
3. Perkins-Veazie P., **M. Iorizzo**, H. Oh, F. Saeed and C. Li. Fruit Bruising, Firmness, and Estimation of Cell Membrane Damage across Blueberry Genotypes. ASHS 2023 Annual Conference, July 31-August 4, 2023, Orlando, FL, USA.
4. Heeduk Oh, M.F. Mengist, G. Ma, J. Spencer, P. Perkins-Veazie and **M. Iorizzo**. Identification of QTLs for Non-Volatile Chemical Compounds in Blueberry. ASHS 2023 Annual Conference, July 31-August 4, 2023, Orlando, FL, USA.
5. Oh H, M.F. Mengist, M. Pottorff, L. Giongo, P. Perkins-Veazie and **M. Iorizzo**. Identification of QTLs related to fruit texture at harvest and postharvest in blueberry. Tools for Polyploids Workshop 2023. January 11-12, 2023, San Diego, CA, USA.
6. Oh H, M.F. Mengist, M. Pottorff, L. Giongo, P. Perkins-Veazie and **M. Iorizzo**. Mapping QTLs for postharvest fruit texture and size characteristics in blueberry. Plant & Animal Genomics Conference (PAG) 30. January 13-18, 2023, San Diego, CA, USA.
7. Trandel-Hayse M.A., H. Oh., S. Johanningsmeier, **M. Iorizzo** and P. Perkins-Veazie. Peel and Pulp Texture Parameters Are Negatively Correlated to Pectin and Cellulose Content in Ten Highbush Blueberry Cultivars. ASHS 2022 Annual Conference, July 29-August 3, 2022, Chicago, IL, USA.
8. Perkins-Veazie P., G. Ma, H. Oh, M.A. Trandel-Hayse, N. Bassil, C. Luby, P.R. Munoz and **M. Iorizzo**. Development of a High-Throughput Method to Evaluate Soluble Sugar Content of Large Sets of Blueberry Fruit. ASHS 2022 Annual Conference, July 29-August 3, 2022, Chicago, IL, USA.
9. Castaldo C., M. Pane, D. Gentile, V. Cirillo, N. D'Agostino, **M. Iorizzo**, A. Di Matteo. Screening tomato glutathione S-transferase diversity for association to drought stress. 65 Italian Society of Agrochemical Genetics Annual Congress, Piacenza, September 6-9, 2022, Italy.
10. Heeduk O., M. Pottorff, M.F. Mengist, L. Giongo, **M. Iorizzo** and P. Perkins-Veazie. Examination of texture characteristics at harvest and postharvest and identification of QTLs in blueberry. International Symposium on Advances in Berry Crops, August 14-20, 2022, Angers, France.
11. Abugu M., S. Johanningsmeier, M. Allan, **M. Iorizzo** and C. Yencho. Exploring and quantifying the chemical constituents responsible for consumer-preferred flavors in sweetpotatoes. 2022 National Sweetpotato Collaborators Group Annual Meeting, February 11-12, 2022, New Orleans, LA, USA.
12. Mengist M.F., H. Bostan, K. Kay, N. Gillitt, H. Ashrafi, M.G. Ferruzzi, M.A. Lila and **M. Iorizzo**. High density linkage map construction and identification of loci regulating fruit quality traits in blueberry. XII International Vaccinium Symposium, August 30-September 1, 2021, Virtual.
13. Pottorff M., K. Zielinski, M.F. Mengist, D. Honigs, M. Grace, M.A. Lila and **M. Iorizzo**. A High-Throughput Phenotyping Method Using Near Infrared Spectroscopy to Measure Anthocyanin Content in Blueberry. XII International Vaccinium Symposium, August 30-September 1, 2021, Virtual.

14. Yow A.G., H. Bostan, R.A. Young, N. Gillitt and **M. Iorizzo**. 2021. Improvements in Pineapple (*Ananas comosus*) cultivar ‘MD2’ Genome Assembly and Gene Models. Genomes of Animals & Plants Virtual Conference, January 12-14.
15. Yalcin O., C. Finn, T. Mackey, M. Pottorff, **M. Iorizzo**, M. Hardigan, C. Luby and N.V. Bassil. Towards QTL analysis of phenological and fruit quality traits in a tetraploid highbush blueberry population. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
16. Chacon Jimenez J.G., B. Olukolu, M. Mollinari, F. Louws, **M. Iorizzo** and G. Fernandez. Discovery of Octoploid Strawberry QTLs for Resistance to *Colletotrichum acutatum* and *C. gloeosporioides* Necrotrophic and Hemibiotrophic Infections. IX International Strawberry Symposium, May 1-5, 2021, Rimini, Italy.
17. Hayes M., M. Pottorff, C. Kay, M.A. Lila, **M. Iorizzo** and M. Ferruzzi. Characterization of Processing Influences on In Vitro Bioaccessibility of Carotenoids and Chlorophylls from Six Spinach Genotypes. Current Developments in Nutrition, 4(Supplement_2), pp.755-755. (Online American Society of Nutrition Meeting, 2020).
18. Yow A.G., H. Bostan, R.A. Young, N. Gillitt and **M. Iorizzo**. A Phased Chromosome-Scale Genome Assembly for Pineapple (*Ananas comosus* var. *comosus*). NCSU Plant Breeding Symposium, February 6, 2020, Raleigh, NC.
19. **Iorizzo M.**, M.A. Lila, P. Perkins-Veazie, M. Pottorff, C. Finn, N. Vorsa, P. Edger, N. Bassil, P. Munoz, J. Zalapa, K.R. Gallardo, A. Atucha, D. Main, L. Giongo, C. Li, J. Polashock, C. Sims, E. Canales, L. DeVetter, D. Chagne, R. Espley and M. Coe. VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
20. Mengist M.F., H.M. Grace, J. Xiong, D.C. Kay, N. Bassil, K. Hummer, M. Ferruzzi, M.A. Lila and **M. Iorizzo**. Diversity in metabolites and fruit quality traits in blueberry enables ploidy and species differentiation and establishes a strategy for bioactive genetic studies. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
21. Kulkarni K., J. Callwood, L. Mulozi, B. Manzanero, N. Vorsa, **M. Iorizzo**, U.K. Reddy, S. Elavarthi and K. Melmaiee. Development of Transcriptome-Derived SSR Markers in Blueberry. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
22. Yow, A.G., H. Bostan, R.A. Young, N. Gillitt and **M. Iorizzo**. A Phased Chromosome-Scale Genome Assembly for Pineapple (*Ananas comosus* var. *comosus*). Poster presentation at the 7th Annual Plant Genomics and Gene Editing Congress, November 5, 2019, Raleigh, NC.
23. Hayes M., M. Pottorff, C.D. Kay, A. Van Deynze, J. Osorio-Marin, M.A. Lila, **M. Iorizzo** and M. Ferruzzi. Diversity in the Bioaccessibility of Carotenoid and Chlorophyll Compounds in 69 Spinach Genotypes. Annual Nutrition Science Meeting, June 8-11, 2019, Baltimore, USA.
24. Burtch H., C. Kay, M.A. Lila, C.E. Finn, M.F. Mengist, **M. Iorizzo** and M.G. Ferruzzi. Adaptation of an in vitro digestion model for high throughput phenolic bioaccessibility phenotyping within cultivated (highbush) blueberry cultivars. Annual Nutrition Science Meeting, June 8-11, 2019, Baltimore, USA.
25. Yow A., H. Bostan and **M. Iorizzo**. Improving the quality of the pineapple (*Ananas comosus* var. *comosus*) reference genome. 8th Annual Catalyst Symposium at NC Research Campus, March 29, 2019, Kannapolis, North Carolina, USA.
26. Carvalho de Santana M., **M. Iorizzo**, M. Ferruzzi, M.A. Lila and C. Kay. Establishing optimal nutritional quality of blueberries using common plant breeding and processing practices. 14th Annual NCSU Graduate Student Research Symposium, March 21, 2019, Raleigh, North Carolina, USA.

27. Quiroz E., B. Munoz, K. James and **M. Iorizzo**. Plant tissue-culture propagation of banana. VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
28. James K., B. Muñoz, E. Quiro, F. Jin, M. Fabian and **M. Iorizzo**. Total phenolics characterization in selected banana cultivars. VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
29. Dunlap D.P., Yow A.G. and **Iorizzo M.** Developing a molecular framework for studying floral induction and bromelain accumulation in pineapple (*Ananas comosus* var. *comosus*). VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
30. Morrison R., K. Zielinski, M.F. Mengist, H. Ashrafi, M.A. Lila and **M. Iorizzo**. Exploring anthocyanin content variation in blueberry germplasm (*Vaccinium* sp.). VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
31. DeLange A., J. Ferrier, K. Zielinski, D. Honigs, M.F. Mengist, M. Grace, **M. Iorizzo** and M.A. Lila. A methods-based approach to investigate anthocyanin content in blueberry for genetic studies (*Vaccinium* sp.). VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
32. Young E., L. Redpath, **M. Iorizzo** and H. Ashrafi. Fruit quality related trait evaluation in a segregating F₁ population of blueberry from a cross between “Reveille” and “Arlen” cultivars. National Association of Plant Breeders, Annual Meeting, August 7-10, 2018, Guelph, Ontario, Canada.
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34. Ellison A.L., C.H. Luby, K. Corak, K. Coe, D. Senalik, **M. Iorizzo**, I.L. Goldman, P.W. Simon and J.C. Dowson. Association analysis reveals the importance of the Or gene in carrot (*Daucus carota* L.) carotenoid accumulation and domestication. Population, Evolutionary, and Quantitative Genetics Conference, May 13-16, 2018, Madison, WI.
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39. **Iorizzo M.**, M.F. Mengist, H. Bostan, J. Curaba and M. Pottorff. From genome to genes and DNA markers to improve agronomic performance and quality of fruit and vegetables crops. Genetyka Aplikacyjna Roślin XXI, September 22-24, 2021, Warsaw, Poland.
40. Pottorff M., K. Zielinski, M.F. Mengist, D. Honigs, M. Grace, M.A. Lila and **M. Iorizzo**. A High-Throughput Phenotyping Method Using Near Infrared Spectroscopy to Measure Anthocyanin Content in Blueberry. XII International Vaccinium Symposium, August 30-September 1, 2021, Virtual.

41. Qi X., E.L. Ogden, D.J. Sargent, H. Boston, J. Ward, J. Gilbert, **M. Iorizzo** and L.J. Rowland. High density genetic linkage map and identification of QTL for chilling requirement, cold hardiness, and fruit quality traits in a diploid blueberry population. XII International Vaccinium Symposium, August 30-September 1, 2021, Virtual.
42. Humann J., C.-H. Cheng, T.L. Lee, K. Buble, S. Jung, J. Yu, H. Hough, J. Crabb, M. Frank, K. Scott, **M. Iorizzo** and D. Main. Using the Genome Database for Vaccinium for genetics, genomics, and breeding research. XII International Vaccinium Symposium, August 30-September 1, 2021, Virtual.
43. Phillips M., L. Diaz-Garcia, E. Grygleski, L. Giongo, A. Atucha, **M. Iorizzo** and J. Zalapa. Cranberry challenges in distinguishing soft and firm berries. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
44. Mengist M.F., H. Burtch, H. Debelo, M. Pottorff, H. Bostan, C. Nunn, S. Corbin, C.D. Kay, N. Bassil, K. Hummer, M.A. Lila, M.G. Ferruzzi and **M. Iorizzo**. Diversity of phenolic bioaccessibility in blueberry germplasm: towards the development of a genetic framework to improve the efficiency of bioactive delivery. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
45. Mengist M.F., H. Bostan, K. Kay, N. Gillitt, H. Ashrafi, M.G. Ferruzzi, M.A. Lila and **M. Iorizzo**. High density linkage map construction and identification of loci regulating fruit quality traits in blueberry. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
46. Giongo L., M. Ajelli, M. Pottorff, P. Perkins-Veazie and **M. Iorizzo**. Assessing Blueberry and Texture Traits Associated with Consumer Acceptance and Shelf life. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
47. Trandel M.A., P. Perkins-Veazie, **M. Iorizzo** and S. Johanningsmeier. Method optimization and cell wall analysis for peel and pulp of blueberry cultivars. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
48. Yalcin O., C. Finn, T. Mackey, M. Pottorff, **M. Iorizzo**, M. Hardigan, C. Luby and N.V. Bassil. Towards QTL analysis of phenological and fruit quality traits in a tetraploid highbush blueberry population. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
49. Chacon Jimenez J.G., B. Olukolu, M. Mollinari, F. Louws, **M. Iorizzo** and G. Fernandez. Discovery of Octoploid Strawberry QTLs for Resistance to Colletotrichum acutatum and C. gloeosporioides Necrotrophic and Hemibiotrophic Infections. IX International Strawberry Symposium, May 1-5, 2021, Rimini, Italy.
50. **Iorizzo M.**, M.A. Lila, P. Perkins-Veazie, M. Pottorff, C. Finn, N. Vorsa, P. Edger, N. Bassil, P. Munoz, J. Zalapa, K.R. Gallardo, A. Atucha, D. Main, L. Giongo, C. Li, J. Polashock, C. Sims, E. Canales, L. DeVetter, D. Chagne, R. Espley and M. Coe. VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
51. Mengist M.F., H.M. Grace, J. Xiong, C.D. Kay, N. Bassil, K. Hummer, M. Ferruzzi, M.A. Lila and **M. Iorizzo**. Diversity in metabolites and fruit quality traits in blueberry enables ploidy and species differentiation and establishes a strategy for bioactive genetic studies. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
52. **Iorizzo M.**, H. Bostan, J. Curaba, S. Ellison, D. Senalik and P.W. Simon. Improved Hybrid de novo Genome Assembly, Gene Prediction and Annotation of Carrot (Daucus carota). XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
53. Kulkarni K., J. Callwood, L. Mulozi, B. Manzanero, N. Vorsa, **M. Iorizzo**, U.K. Reddy, S. Elavarthi and K. Melmaiee. Development of Transcriptome-Derived SSR Markers in Blueberry. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.

54. Zielinski K., D. Honigs, M. Grace, M.F. Mengist, M.A. Lila and **M. Iorizzo**. Leveraging a High-Throughput Phenotyping Method to Study Anthocyanin Genetics in Blueberry. American Society of Horticultural Science Annual meeting, July 21-25, 2019, Las Vegas, NV, USA.
55. Hayes M., M. Pottorff, C. Kay, A. Van Deynze, J. Osorio-Marin, M.A. Lila, **M. Iorizzo** and M. Ferruzzi. Diversity in the Bioaccessibility of Carotenoid and Chlorophyll Compounds in 69 Spinach Genotypes. Annual Nutrition Science Meeting, June 8-11, 2019, Baltimore, USA.
56. Burtch H., C. Kay, M.A. Lila, C.E. Finn, M.F. Mengist, **M. Iorizzo** and M.G. Ferruzzi. Adaptation of an in vitro digestion model for high throughput phenolic bioaccessibility phenotyping within cultivated (highbush) blueberry cultivars. Annual Nutrition Science Meeting, June 8-11, 2019, Baltimore, USA.
57. Young E., L. Redpath, **M. Iorizzo** and H. Ashrafi. Fruit quality related trait evaluation in a segregating F₁ population of blueberry from a cross between “Reveille” and “Arlen” cultivars. National Association of Plant Breeders, Annual Meeting, August 7-10, 2018, Guelph, Ontario, Canada.
58. Hulse-Kemp A.M., H. Bostan, H. Ashrafi, K. Stoffel, W. Sanseverino, L. Li, S. Cheng, E. Tseng, **M. Iorizzo** and A. Van Deynze. A spinach genome for the next generation of breeders. National Association of Plant Breeders, August 7-10, 2018, Guelph, Ontario, Canada.
59. Ellison A.L., C.H. Luby, K. Corak, K. Coe, D. Senalik, **M. Iorizzo**, I.L. Goldman, P.W. Simon and J.C. Dowson. Association analysis reveals the importance of the Or gene in carrot (*Daucus carota* L.) carotenoid accumulation and domestication. Population, Evolutionary, and Quantitative Genetics Conference, May 13-16, 2018, Madison, WI.
60. Corak K., S. Ellison, C.H. Luby, D. Senalik, **M. Iorizzo**, D. Spooner, I.L. Goldman, P.W. Simon and J.C. Dowson. Development of Genomic-Based Strategies for Screening and Selection of Accessions from a Carrot (*Daucus carota*) Germplasm Collection. Population, Evolutionary, and Quantitative Genetics Conference, May 13-16, 2018, Madison, WI.
61. Aryal R., H. Bostan, A.G. Yow, E. Tseng, **M. Iorizzo** and H. Ashrafi. Differential Gene Expression during Flower and Fruit Development of the Blueberry Cv. O'neal. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
62. **Iorizzo M.**, R.K. Gallardo, P. Edger, J. Polashock, C. Rodriguez-Soana, J. Zalapa, A. Atucha, H. Ashrafi, E. Babiker, P.R. Munoz, N. Bassil, M.A. Lila, C. Li, L. Giongo, P. Perkins-Veazie, N. Vorsa and C. Finn. Building a Vaccinium Community to Advance Blueberry and Cranberry Breeding Programs in US. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
63. Simon P., S. Ellison, D. Senalik, M. Colley, J. Dawson, S. Tanumihardjo, D. Spooner, E. Spalding, J. Nunez, A. Van Deynze, D. Sumner, P.A. Roberts, L. du Toit, T. Waters, **M. Iorizzo**, W. Matthews, H. Lee and L. McKenzie. Identifying Phenotypes, Markers, and Genes in Carrot Germplasm to Deliver Improved Carrots to Growers and Consumers. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
64. Bostan H., S. Ellison, D. Senalik, P. Simon and **M. Iorizzo**. Improving the Carrot Genome Assembly and Gene Prediction: Strategies to Overcome Challenges from Short Read Genome Assemblies. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
65. **Iorizzo M.**, H. Bostan, R. Aryal, L.J. Rowland, J. Zalapa and H. Ashrafi. Towards Developing a Chromosome Scale Reference Genome Sequence of Blueberry. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
66. Ellison S., C.H. Luby, K. Corak, K. Coe, D. Senalik, **M. Iorizzo**, I.L. Goldman, P.W. Simon and J.C. Dawson. A novel carotenoid accumulation mechanism revealed through analysis of genetic structure

- and domestication in carrot (*Daucus carota* L.). XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
67. **Iorizzo M.** Cracking the genetic code controlling phytochemical accumulation in carrot and blueberry. American Council for Medicinally Active Plants Annual Meeting, June 20-23, 2017, Clemson University, Clemson, SC.
 68. **Iorizzo M.**, K. Zielinski, H. Bostan, D. Senalik, P. Cavagnaro, M.A. Lila and Simon P. Leveraging Genetic and Genomic Resources to Link Anthocyanin Genetics and Nutrigenomics in Carrot and Blueberry. XXV Plant & Animal Genome, January 14-18, 2017, San Diego, California, USA.
 69. Covarrubias-Pazaran G., B. Schlautman, L. Diaz-Garcia, L. Rodriguez Bonilla, J. Deutch, E. Grygleski, **M. Iorizzo**, J. Polashock, N. Vorsa, J. Zalapa. Development of genomic information in American Cranberry. American Society for Horticultural Science annual conference, August 7-11, 2016, Atlanta, GA
 70. Simon S., S. Ellison, D. Senalik D. and **Iorizzo M.** The carrot genome: a framework to study health-promoting metabolite accumulation. 37th Annual International Carrot Conference, September 15-17, 2015, Alliston, Ontario, Canada.
 71. Ellison S., **M. Iorizzo**, D. Senalik and P. Simon. Orange Is the New Yellow: Cracking the Genetic Code Controlling Beta-Carotene Accumulation in Carrot. XXIII Plant & Animal Genome, January 10-14, 2015, San Diego, California, USA.
 72. Ellison S., **M. Iorizzo**, D. Senalik and P. Simon. The Origin of Orange Pigment in Carrot. XXIII Plant & Animal Genome, January 10-14, 2015, San Diego, California, USA.
 73. Simon P., P. Cavagnaro, **M. Iorizzo**, M. Yildiz, D. Senalik, J. Parsons and S. Ellison. High-Resolution Mapping of Root and Leaf Anthocyanin Pigmentation QTL in Carrot. Plant and Animal Genome Conference, San Diego, CA, January 10-14, 2015. Poster Abstract P1077.
 74. **Iorizzo M.**, S. Ellison, D. Senalik, P. Sarapoomin, A. Van Deynze and P. Simon. The Carrot Genome: A Framework to Study Health-Promoting Metabolite Accumulation. XXIV Plant & Animal Genome, January 9-13, 2015, San Diego, California, USA.
 75. **Iorizzo M.**, D. Senalik, S. Ellison, P. Cavagnaro, S. Cheng, P. Zheng, Z. Zheng, A. Van Deynze and P. Simon. The building of the first Apiaceae Genome. Plant Animal Genome, San Diego, CA, January 12-15, 2014.
 76. **Iorizzo M.** and P. Simon. The carrot genome: establishing a genomic framework to accelerate carrot breeding and genetics and study genome evolution within the Apiaceae. Carrot and other Apiaceae International Symposium, Angers, France, September 17-19, 2014.
 77. Ellison S., **M. Iorizzo**, P. Simon and D. Senalik. Orange is the new yellow: cracking the genetic code controlling carotenoid accumulation in carrot (*Daucus carota* L.). Plant and Animal Genome Conference, San Diego, CA, January 10-15, 2014. Poster Abstract P0680.
 78. Simon P., **M. Iorizzo**, D. Senalik, S. Ellison, P. Cavagnaro and A. Van Deynze. Status of mapping carrot traits. International carrot conference, Madison, WI, August 15-16, 2013.
 79. Ellison S., **M. Iorizzo**, P. Simon and D. Senalik. Utilizing genotyping by sequencing to identify candidate genes underlying domestication traits in carrot. International carrot conference, Madison, WI, August 15-16, 2013.
 80. **Iorizzo M.**, D. Senalik, S. Ellison, D. Grzebelus, P. Cavagnaro, C. Allender, J. Brunet, D. Spooner, A. Van Deynze and P.W. Simon. Genetic structure and domestication for carrot (*Daucus carota* subsp. *sativus* L.)(Apiaceae). Botany 2013, New Orleans, July 27-30, 2013.

81. Cavagnaro P.F., **M. Iorizzo**, M. Yildiz, D. Senalik, J. Parsons, D.K. Willis, A. Van Daynze and P.W. Simon. Elucidating the genetic basis underlying anthocyanin pigmentation in carrot. International carrot conference, Madison, WI, August 15-16, 2013, Poster Abstract P07.
82. **Iorizzo M.**, D. Senalik, S. Ellison, P. Cavagnaro, A. Van Deynze and P. Simon. The building of the first Apiaceae Genome. International carrot conference, Madison, WI, August 15-16, 2013.
83. Satapoomin P., J. Parsons, **M. Iorizzo** and P.W. Simon. Mapping QTL Associated with Carotene Accumulation in Orange Carrot Roots. International carrot conference, Madison, WI, August 15-16, 2013, Poster Abstract P20.
84. Ali A., W.C. Matthews, P.F. Cavagnaro, **M. Iorizzo**, P.A. Roberts and P.W. Simon. Inheritance and mapping of *Mj-2*, a new source of root-knot nematode (*Meloidogyne javanica*) resistance in carrot. International carrot conference, Madison, WI, August 15-16, 2013, Poster Abstract P25.
85. **Iorizzo M.**, D. Senalik, S. Ellison, D. Grzebelus, P.F. Cavagnaro, D. Spooner, A. Van Deynze and P. Simon. Development of a high-throughput SNP resource to advance genomic, genetic and breeding research in carrot (*Daucus carota* L.). Plant and Animal Genome Conference, San Diego, CA, January 12-16, 2013, Poster Abstract P0762.
86. Grzebelus D., R. Baranski, **M. Iorizzo**, D. Senalik, S. Repinski, P. Cavagnaro, A. Macko-Podgorni, L. Heller-Uszynska, A. Kilian, T. Nothnagel, C. Allender, P.W. Simon. Diversity Arrays Technology (DArT) platform for genotyping and mapping in carrot (*Daucus carota* L.). Plant and Animal Genome Conference, San Diego, CA, January 12-16, 2013. Poster Abstract P0697.
87. Ellison S., **M. Iorizzo**, D. Senalik and P. Simon. Genome-wide Association of the Domestication Syndrome in Carrot (*Daucus carota* L.). Plant and Animal Genome Conference, San Diego, CA, January 12-16, 2013. Poster Abstract P0698.
88. Bradeen J.M., B.P. Millett, L. Gao, **M. Iorizzo** and D. Carputo. Evidence that organ-specific modulation of R gene function is achieved through transcriptional regulation. American Phytopathological Society Annual Meeting, Providence, RI, August 4-8, 2012.
89. **Iorizzo M.**, D. Senalik, M. Szklarczyk, D. Grzebelus and P. Simon. De novo Assembly of the Carrot Mitochondrial Genome. Plant and Animal Genome Conference, San Diego, CA, January 14-18, 2012, Poster Abstract P0040.
90. **Iorizzo M.**, M. Bowman, D. Senalik, P. Cavagnaro, D. Capruto, A. Van Deynze and P. Simon. Development of EST based markers for exploiting the carrot genome. Plant and Animal Genome Conference, San Diego CA, January 14-20, 2011, Poster Abstract P0175.
91. Aversano R., P. Adamo, L. Frsuciante, **M. Iorizzo**, C. Quetel, M.V. Zampella and D. Carputo. Molecular and chemical markers to trace the genetic identity and the geographical origin of potatoes. Proceedings of the Joint Meeting AGI-SIBV-SIGA, Assisi, Italy, September 19-22, 2011, Poster Abstract 9.20.
92. Miraglia V., A. Traini, J.M. Bradeen, **M. Iorizzo**, H. Mann, M.L. Chiusano and D. Carputo. Structural genomics of wild potato species based on DArT alignments. Proceedings of the Joint Meeting AGI-SIBV-SIGA, Assisi, Italy, September 19-22, 2011, Abstract 2A.86.
93. Sacco A., S. Vitale, **M. Iorizzo**, N. D'Agostino, A. Di Matteo, M.L. Chiusano and A. Barone. Characterization of an EST collection from potato genotypes resistant and susceptible to *Ralstonia solanacearum*. Società Italiana di Genetica Agraria Annual Meeting, Matera, Italy, September 27-30, 2010, Poster Abstract 4-53.
94. **Iorizzo M.**, H. Mann, D. Carputo, M.L. Chiusano, N. D'Agostino and J.M. Bradeen. Using the DArT platform and potato/tomato reference genome sequence for comparative genomics in Solanum. European Association of Potato Research/EUCARPIA Joint Meeting "Potato Breeding after

Completion of the DNA Sequence of the Potato Genome”, Wageningen, The Netherlands, 23-27 Giugno 2010, Poster Abstract P61.

95. Miraglia V., **M. Iorizzo**, C. Villano, R. Aversano, L. Frusciante and D. Carputo. High Resolution Melting for potato hybrid genotyping. European Association of Potato Research/EUCARPIA Joint Meeting “Potato Breeding after Completion of the DNA Sequence of the Potato Genome”, Wageningen, The Netherlands, 23-27 Giugno 2010, Poster Abstract P70.
96. Mann H., **M. Iorizzo**, L. Gao, N. D’Agostino, M.L. Chiusano, D. Carputo and J.M. Bradeen. Emerging reference genome sequence and DArT marker platform facilitate comparative mapping in *Solanum*. Plant and Animal Genome Conference, San Diego, CA, January, 9-13, 2010, Poster Abstract P455.
97. Gao L., **M. Iorizzo**, H. Mann, D. Carputo and J.M. Bradeen. DArT based maps of wild potato species facilitate genome structure comparisons in the genus *Solanum*. Plant and Animal Genome Conference, San Diego, CA, January 10-14, 2010.
98. **Iorizzo M.**, H. Mann, N. D’Agostino, V. Miraglia, M.L. Chiusano, J.M. Bradeen and D. Carputo. Comparative structural genomics between incongruent wild potato species. Società Italiana di Genetica Agraria Annual Meeting, Torino, September 16-19, 2009, Poster Abstract 1-17.
99. Vitale S., **M. Iorizzo**, A. Sacco, A. Di Matteo and A. Barone. A combined transcription profiling approach to investigate the response to *Ralstonia solanacearum* in potato. Società Italiana di Genetica Agraria Annual Meeting, Torino, September 16-19, 2009, Poster Abstract 2-27.
100. Gao L., **M. Iorizzo**, H. Mann, D. Carputo, J.M. Bradeen. Comparative structural genomics of disease resistant wild potato species comprising the tertiary gene pool of cultivated potato. American Phytopathological Society Annual Meeting, St. Paul, MN, July 26-30, 2008.
101. **Iorizzo M.**, D. Carputo, A. Kilian, P. Wenzl and J.M. Bradeen. Community resources for high throughput genome mapping and diversity analyses in 1EBN potato species. European Association for Potato Research Triennial Meeting, Brasov, Romania, July 6-10, 2008, Poster Abstract P403.
102. **Iorizzo M.**, D.S. Mollov, B.P. Millett, D. Carputo and J.M. Bradeen. Assessment of RB gene dosage and expression in transgenic potato. Solanaceae Genome Workshop, Cologne, Germany, October 12-16, 2008, Poster Abstract 346.
103. **Iorizzo M.**, D.S. Mollov, B.P. Millett, D. Carputo, and J.M. Bradeen. Transcriptional studies of the late blight resistance gene RB in foliage of transgenic potato. Plant and Animal Genome Conference, San Diego, CA, January 12-16, 2008, Poster Abstract P434.
104. Millett B.P., **M. Iorizzo**, D.S. Mollov and J.M. Bradeen. Foliar blight resistance transgene RB transcription levels correlated with blight resistance in tubers. Plant and Animal Genome Conference, San Diego, CA, January 12-16, 2008, Poster Abstract P432.
105. **Iorizzo M.**, H. Mann, R. Aversano, L. Gao, D. Carputo and J.M. Bradeen. Structural genomics resource for exploiting the wild potato gene pool. Solanaceae Genome Workshop, Cologne, Germany, October 12-16, 2008.
106. Bradeen J.M., **M. Iorizzo**, H. Mann, L. Gao, N. D’Agostino, M.L. Chiusano and D. Carputo. DArT markers for linkage mapping and cross-species comparison of genome structures. American Society for Horticultural Science Annual meeting, Palm Desert, CA, August 2-5, 2010.
107. Satapoomin P., **M. Iorizzo** and P. Simon. Development and analysis of SSR and SNP markers for a carrot mapping population. 34th International Carrot Conference, Kennewick, WA, July 26-28, 2010.

108. Traini A., N. D'Agostino, M. Di Filippo, **M. Iorizzo**, R. Aversano, H. Mann, J.M. Bradeen, D. Carputo and M.L. Chiusano. Interpreting and exploiting data based on suitable integrated bioinformatics platform. European Association of Potato Research/EUCARPIA Joint Meeting "Potato Breeding after Completion of the DNA Sequence of the Potato Genome", Wageningen, The Netherlands, 23-27 Giugno 2010.
109. Carputo D., **M. Iorizzo**, J.M. Bradeen, R. Aversano, A. Barone, T. Cardi and L. Frusciante. Deployment of incongruent tuber-bearing *Solanum* species: integrated strategies of potential breeding value. Società Italiana di Genetica Agraria Annual Congress, Padova, Italy, September 14-17, 2008.
110. Mann H., E.A. Quirin, L. Gao, R. Aversano, **M. Iorizzo**, D. Carputo and J.M. Bradeen. Resource development for efficient mapping of disease resistance traits in *Solanum*. Centennial Meeting, American Phytopathological Society, St. Paul (Minnesota, USA) July 26-30, 2008.
111. Mollov D., **M. Iorizzo**, S. Wielgus, J. Raasch, D. Carputo, L. Frusciante, S. Austin-Phillips, J. Jiang and J. Bradeen. The transgene *RB* renders foliar late blight susceptible potato cultivars resistant. Potato Association of America Annual Meeting, Idaho Falls, ID, August 12-16, 2007.
112. Carputo D., A. Di Matteo, **M. Iorizzo**, A. Barone and L. Frusciante. Resistance to race 3 of *Ralstonia solanacearum* of (near) pentaploid hybrids used as bridge ploidies. European Association Potato Research Triennial Conference, Carlow, Ireland, November 20-22, 2006.
113. Carputo D., A. Barone, I. Caruso, **M. Iorizzo**, A. Zoina and L. Frusciante. Fertile *Solanum commersonii-Solanum tuberosum* sexual hybrids as source of resistance to *Ralstonia solanacearum*. Solanaceae Genome Workshop, Madison, WI, July 23-27, 2006.

RESEARCH PRESENTATIONS (*indicate International conference/events, Underlined indicate keynote speaker or featured presentation)

1. **Iorizzo M.*** Genetics, genomics, germplasm improvement to advance breeding for specialty crops. Organized by the Academy of Science (Italy), March 12, 2024, Rome.
2. **Iorizzo M.** Exploring fruit/vegetable nutrigenomic properties as new target traits to improve phytochemicals and nutrients uptake/health outcomes. 7th Biennial NC State Plant Breeding Symposium, February 1, 2024, Raleigh, NC, USA.
3. **Iorizzo M.*** Orange Carrot: Unveiling the Genetics of a Masked Phenotype. XXXI Plant & Animal Genome, January 12-17, 2024, San Diego, California, USA.
4. **Iorizzo M.*** Functional characterization of *DcMYB11*, an R2R3 MYB associated with the purple pigmentation of carrot petiole. XXXI Plant & Animal Genome, January 12-17, 2024, San Diego, California, USA.
5. **Iorizzo M.*** Identification and characterization of genes associated with anthocyanin acylation in blueberry. XXXI Plant & Animal Genome, January 12-17, 2024, San Diego, California, USA.*
6. **Iorizzo M.*** Using a population genomic approach to uncover the genetics of carrot domestication and improvement. 1st UNTRM Plant Breeding Symposium: Tools for modern crop breeding, Nov 16, 2023, Peru.
7. **Iorizzo M.*** Recent advances in characterizing the carrot genome. International Carrot and Other Apiacea Symposium, October 2-5, 2023, York, UK.
8. **Iorizzo M.*** Omics approach to uncover the origin of high carotenoid orange carrots. 66th Annual Congress Italian Society of Italian Genetics, September 5-8, 2023, Bari, Italy.

9. **Iorizzo M.*** Genetics, genomics, germplasm improvement to advance breeding of berries. 1st Latin American Congress of Berries, August 24-25, 2023, Chillán, Chile.
10. **Iorizzo M.** Assessing Genetic Parameters and Predictability for Shelf Life Parameters in Blueberry. ASHS 2023 Annual Conference, July 31-August 4, 2023, Orlando, FL, USA.
11. **Iorizzo M.*** Analysis of Global Carrot Germplasm Identifies Genomic Signatures of Domestication and Improvement and Uncovers the Origin of High Carotenoid Orange Carrots. XXX Plant & Animal Genome, January 13-18, 2023, San Diego, California, USA.
12. **Iorizzo M.** Exploring fruit/vegetable nutrigenomic properties as new target traits to improve phytochemicals and nutrients uptake/health outcomes. 7th Annual UF Plant Science Symposium, January 30-31, 2023, Gainesville, FL, US.
13. **Iorizzo M.** Vaccinium CAP status and updates: advancing genetic and genomic tools to improve fruit quality in blueberry and cranberry. Southeast Regional Fruit & Vegetable Conference, January 6, 2023, Savannah, GA.
14. **Iorizzo M.*** Toward a precise genetic strategy to regulate anthocyanin accumulation in carrot for improving its application in the natural food colorant industry. ISHS-IHC, International Symposium on Natural Colorants from Plants, August 14-20, 2022, Angers, France.
15. **Iorizzo M.*** Vaccinium CAP: a community-based project to develop advanced genetic and genomic tools to improve fruit quality in blueberry and cranberry. ISHS-IHC, International Symposium on Breeding and Effective Use of Biotechnology and Molecular Tools in Horticultural Crops, August 14-20, 2022, Angers, France.
16. **Iorizzo M.** Vaccinium CAP status and updates: advancing genetic and genomic tools to improve fruit quality in blueberry and cranberry. NABREW conference, June 27-29, 2022, virtual.
17. **Iorizzo M.*** Development of a Genetic Framework to Regulate Anthocyanin Accumulation in Carrot. XXIX Plant & Animal Genome, January 8-12, 2022, San Diego, California, USA.
18. **Iorizzo M.** VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. Southeast Regional Fruit & Vegetable Conference, January 6-9, 2022, Savannah, GA.
19. **Iorizzo M.*** From genome to genes and DNA markers to improve agronomic performance and quality of fruit and vegetables crops. Genetyka Aplikacyjna Roślin XXI, September 22-24, 2021, Warsaw, Poland.
20. **Iorizzo M.*** VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. XII ISHS International Vaccinium Symposium, August 30-September 1, 2021, virtual.
21. **Iorizzo M.*** Development of a genetic framework to improve the efficiency of bioactive stability and delivery from carrot and blueberry. Webinar: Current status of Phyomedicomics and Nutriomics. Organized by the Korean Academy of Science and Technology (KAST), December 15, 2020.
22. **Iorizzo M.*** VacCAP: A community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. Online talk, organized by Ministry of Agriculture and National Institute of Agricultural Innovation, Peru. June 25, 2020.
23. **Iorizzo M.*** VacciniumCAP, a community-based project to develop advanced genetic tools to improve fruit quality in blueberry and cranberry. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.

24. **Iorizzo M.*** Diversity in metabolites and fruit quality traits in blueberry enables ploidy and species differentiation and establishes a strategy for bioactive genetic studies. XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
25. **Iorizzo M.*** Improved Hybrid de novo Genome Assembly, Gene Prediction and Annotation of Carrot (*Daucus carota*). XXVII Plant & Animal Genome, January 11-15, 2020, San Diego, California, USA.
26. **M. Iorizzo.** Leveraging a High-Throughput Phenotyping Method to Study Anthocyanin Genetics in Blueberry. American Society of Horticultural Science Annual meeting, July 21-25, 2019, Las Vegas, NV, USA.
27. **Iorizzo M.*** Genome and genomic tools in northern and southern blueberry. Blueberry Europe, conference, November 12-14, 2018, Trento, Italy.
28. **Iorizzo M.*** Recent advance in carrot genomics. Carrot and other Apiacea, 2nd International Symposium, September 19-22, 2018, Krakow, Poland.
29. **Iorizzo M.** Improving the carrot genome assembly and gene prediction. 39th International Carrot Conference, August 21-24, 2018, Madison, Wisconsin, USA.
30. **Iorizzo M.*** Towards Developing a Chromosome Scale Reference Genome Sequence of Blueberry. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
31. **Iorizzo M.*** Leveraging Genetic and Genomic Resources to Link Anthocyanin Genetics and Nutrigenomics in Carrot and Blueberry. XXV Plant & Animal Genome, January 14-18, 2017, San Diego, California, USA.
32. **Iorizzo M.** Cracking the genetic code controlling phytochemical accumulation in carrot and blueberry. American Council for Medicinally Active Plants Annual Meeting, June 20-23, 2017, Clemson University, Clemson, SC.
33. **Iorizzo M.** Carrot genomics: improving the genome assembly and gene prediction. Carrot Advisory Panel meeting for USDA-NIFA-SCRI project. March 19, 2017, Bakersfield, CA.
34. **Iorizzo M.*** Leveraging Genetic and Genomic Resources to Link Anthocyanin Genetics and Nutrigenomics in Carrot and Blueberry. XXV Plant & Animal Genome, January 14-18, 2016, San Diego, California, USA.
35. **Iorizzo M.** The Carrot Genome: Building a Model to Study Phytochemical Accumulation in Root Crops. Plant Improvement Technologies Congress, March 30-31, 2016, Research Triangle, North Carolina, USA.
36. **Iorizzo M.** Cracking the genetic code controlling health-promoting phytochemicals accumulation in specialty crops. NCRC Catalyst Group Symposium, April 28, 2016, Kannapolis, North Carolina, USA.
37. **Iorizzo M.*** The Carrot Genome: A Framework to Study Health-Promoting Metabolite Accumulation. XXIV Plant & Animal Genome, January 9-13, 2015, San Diego, California, USA.
38. **Iorizzo M.** Building a genomic framework to identify genes regulating the accumulation of health-promoting phytochemicals in carrot. July 29, 2015. Summer research Symposium. North Carolina Research Campus.
39. **Iorizzo M.** Genetic and genomic prospective to increase bioactive compound content in berryfruits. October 6-8, 2015. US-NZ Science Workshop, North Carolina Research Campus.
40. **Iorizzo M.*** The Carrot Genome: A Framework to Study Health-Promoting Metabolite Accumulation. XXIV Plant & Animal Genome, January 9-13, 2015, San Diego, California, USA.

41. **Iorizzo M.*** The building of the first Apiaceae Genome. Plant Animal Genome, San Diego, CA, January 12-15, 2014.
42. **Iorizzo M.,** Senalik D., Ellison S., Cavagnaro P., Van Deynze A. and Simon P. The building of the first Apiaceae Genome. International carrot conference, Madison, WI, August 15-16, 2013.*
43. **Iorizzo M.*** The carrot genome: establishing a genomic framework to accelerate carrot breeding and genetics and study genome evolution within the Apiaceae. Carrot and other Apiaceae International Symposium, Angers, France, September 17-19, 2014.
44. **Iorizzo M.*** Structural genomics resource for exploiting the wild potato gene pool. Solanaceae Genome Workshop, Cologne, Germany, October 12-16, 2008.

INVITED SEMINARS (*indicate International events)

1. **Iorizzo M.** Population genomics identifies genetic signatures of carrot domestication and improvement and uncovers the origin of high carotenoid orange carrots. NCSU, INTRINSyC seminar series, December 1, 2023.
2. **Iorizzo M.*** Exploring fruit/vegetable nutrigenomic properties as new target traits to improve phytochemicals and nutrients uptake/health outcomes. University of Concepcion, Department of Agronomy and Fruit Culture, August 23, 2023, Chillán, Chile.
3. **Iorizzo M.*** Leveraging genetic and genomic tools to improve bioactive delivery/use from fruit and vegetables. CNR – ISPA, Italy. November 15, 2022.
4. **Iorizzo M.** Blueberry genetics and genomics for quality and nutrigenomics traits. University of Wisconsin-Madison, Department of Horticulture, Guest lecture for Hort 121, November 30, 2021.
5. **Iorizzo M.** Development of a genetic framework to improve bioactive delivery from fruit and vegetables. University of Florida, Horticultural Science Department Fall Seminar Series October 18, 2021 (remote seminar).
6. **Iorizzo M.*** Advancing genetic and genomic resources to study quality traits in fruit and vegetable crops. Seminar series, University of Agriculture in Krakow, Department of Plant Biology and Biotechnology. May 28, 2021 (remote seminar).
7. **Iorizzo M.*** Advancing genetic and genomic resources to study quality traits in fruit and vegetable crops. University of Naples Federico II (Naples, Italy), Department of Crops Science seminar series (on-line), Nov. 25, 2020. (remote seminar)
8. **Iorizzo M.** Leveraging genetic and genomic resources to improve quality, nutritional and health related traits in fruits and vegetables. September 30, 2019. Department of Horticultural Science, NCSU, Raleigh.
9. **Iorizzo M.** Leveraging genetic and genomic resource to link phytochemical accumulation and nutrient functionality in fruit and vegetables. February 18, 2019. Department of Genetics, NCSU Raleigh.
10. **Iorizzo M.** The carrot genome: a stepping stone to link plant genetics and nutritional value. April 6, 2017. Department of Molecular and Structural Biochemistry, NCSU Raleigh.
11. **Iorizzo M.** Breeding and genomics to improve the nutritional value of fruit and vegetables. NCSU Nutrition program seminars, October 13, 2016, Raleigh, North Carolina, USA.
12. **Iorizzo M.** Leveraging genomics to improve specialty crops. October 16, 2015. Department of Bioinformatics and Genomics, UNC Charlotte.

13. **Iorizzo M.** Genomics and computing advances for precision breeding in plants. Department of Crop Science, University of Naples “Federico II”. December 4, 2013.
14. **Iorizzo M.** ABCDS Group Seminar (UW-Madison, Department of Horticulture). Insight the carrot mitochondrial genome through high-throughput sequences. University of Wisconsin, Madison. March 27, 2013.
15. **Iorizzo M.** ABCDS Group Seminar (UW-Madison, Department of Horticulture). Investigating the carrot domestication through the first high-throughput SNP resource. University of Wisconsin, Madison. December 5, 2012.
16. **Iorizzo M.** ABCDS Group Seminar (UW-Madison, Department of Horticulture). Development and characterization of the first carrot EST collection. University of Wisconsin, Madison. March 31, 2011.
17. **Iorizzo M.** Plant breeding and genetics group seminar. Genetic engineering to improve resistance to *Phytophthora infestans* in potato. Department of Crop Science, University of Naples “Federico II”. June 5, 2009.
18. **Iorizzo M.** Plant Breeding and Plant Genetics Public Thesis Defense. Genomic tools to study advanced potato lines obtained by genetic and genomics engineering. Department of Crop Science, University of Naples “Federico II”. February 5, 2009.
19. **Iorizzo M.** Genetic resources and physiology for a sustainable production in agriculture course. Development of DArT microarray platform and mapping of *S. commersonii* and *S. bulbocastanum* segregating population. Parco Tecnologico Padano, Lodi. Ju

INVITED EXTENSION PRESENTATIONS:

1. **Iorizzo M.** Vaccinium CAP status and updates: advancing genetic and genomic tools to improve fruit quality in blueberry and cranberry. 58th Annual Open House and Trade Show, January 17-18, 2024, Fayetteville, NC, USA.
2. **Iorizzo M.** VacCAP Project updates. North Carolina Blueberry Council – 57th Annual Open House and Trade Show, January 10, 2023, Fayetteville, NC, USA.
3. **Iorizzo M.** VacCAP Project updates. North Carolina Blueberry Council – 56th Annual Open House and Trade Show, January 11, 2022, Harrells, NC, USA.
4. **Iorizzo M.** Advances in nutritional genetics. Plant Breeding Consortium Specialty Crops Improvement Showcase. February 9, 2022.
5. **Iorizzo M.** Leveraging Genetic and Genomic Resources to Enable Development of Blueberry and Cranberry Cultivars with Improved Fruit Quality Attributes. NABC/USHBC Spring meeting, March 18, 2021.
6. **Iorizzo M.** VacCAP project update. North Carolina Blueberry Open House Virtual meeting. January 13, 2021.
7. **Iorizzo M.** Breeding Traits in Blueberry. Western Washington Berry Workshop, March 8, 2019, Mount Vernon, OR, USA.
8. **Iorizzo M.** A National Blueberry Breeding Survey – What are YOUR Priorities for the Perfect Cultivar?. North Carolina Blueberry Open House, January 10-11, 2017, Fayetteville, NC.
9. **Iorizzo M.** Breeding and genomics for source of natural products in specialty crops. Growing Color conference at The North Carolina Arboretum, November 5, 2016, Asheville, North Carolina, USA.

10. **Iorizzo M.** Improving the Nutritional Value of Cucumber Using Molecular Genetic Technologies. Pickle Packers International spring meeting, April 19-20, 2016, Raleigh, North Carolina, USA.

PODCAST AND WEBINAR PRESENTATIONS:

1. Enabling the next Frontier of Blueberry Genetics. The Business of Blueberry by U.S. Highbush Blueberry Council. May, 2023. <https://ushbc.blueberry.org/podcast/enabling-the-next-frontier-of-blueberry-genetics-with-massimo-iorizzo-ph-d/>
2. Coordinated Effort to Improve Blueberry Genetics. The Business of Blueberry by U.S. Highbush Blueberry Council. January, 2023. <https://www.vacciniumcap.org/podcastfeaturebusinessofblueberries>
3. Assessing Post-Storage texture and appearance characteristics in blueberry: lesson learned and application in blueberry breeding. April 22, 2024. <https://www.youtube.com/watch?v=OGTB3uuCB1Q&t=5s>
4. Autopolyploid inheritance and a Heterozygous reciprocal translocation shape chromosome genetic behavior in tetraploid blueberry. December 16, 2022. <https://www.youtube.com/watch?v=euRG7jB1K-M>

PROJECT REPORT:

1. VacCAP IV Advisory Panel Annual report, May 15-16, 2024. <https://www.vacciniumcap.org/annualreport>
2. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, 2023.
3. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, 2022.
4. VacCAP IV Advisory Panel Annual report, March 2-3, 2023. <https://www.vacciniumcap.org/annualreport>
5. VacCAP III Advisory Panel Annual report, November 5, 2021. <https://www.vacciniumcap.org/annualreport>
6. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 27-28, 2021. Organized on-line by North Carolina State University, Raleigh, NC.
7. VacCAP I Advisory Panel Annual report, November 12, 2020. <https://www.vacciniumcap.org/annualreport>
8. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 27-28, 2020. Organized on-line by North Carolina State University, Raleigh, NC.
9. Hummer K., Lewers K., Bassil N., Vorsa N., Zalapa J., Iorizzo M., Williams K. and I. Tzanetakis. 2018. USDA Vaccinium Crop Vulnerability Statement FY 2018 Part 2: Cranberries Small Fruit Crop Germplasm Committee.
10. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 23-25, 2018. Washington State University, Mount Vernon, WA.
11. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 24-26, 2017. Penn State, PA.
12. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 25-26, 2016. Virginia Tech University, Virginia Beach, VA.
13. North Carolina Blueberry Council, project report. Project title: Toward Mapping Quantitative Trait Loci (QTLs) for Fruit Firmness and Late Ripening in Southern Highbush Blueberry. Sponsor: North Carolina Blueberry Council.

WEBSITE:

- Developed and released the *Vaccinium* webpage to inform stakeholders/public about the *Vaccinium* planning grant project <https://pgnglab.plantsforhumanhealth.ncsu.edu/vaccinium-project/about/>

TRADE MAGAZINE ARTICLES:

- 1) What Makes Carrot Oranges? NC State News, September 28. <https://news.ncsu.edu/2023/09/what-makes-a-carrot-orange/>
- 2) Breeding Efforts in Berry Crops Growing By Leaps and Bounds. Growing Produce, Dec 20, 2022. https://www.growingproduce.com/fruits/berries/breeding-efforts-in-berry-crops-growing-by-leaps-and-bounds/?utm_source=gp&utm_medium=twitter&utm_campaign=2212
- 3) Mirtillo, a caccia dei geni per renderlo migliore. Terra e Vita, n. 34-2022, November 11.
- 4) Nationwide Project Going In Search of Better Berries. Growing Produce, Jan 18, 2022. <https://www.growingproduce.com/fruits/nationwide-project-going-in-search-of-better-berries/>
- 5) Giongo L. and Iorizzo M. (2020). Sinergie di ricerca per l'industria di mirtillo gigante e cranberry. Rivista di Frutticoltura e Ortofrutticoltura, 2, 2-4. (Italian trade journal).
- 6) Breeding blueberry breeders - New project puts national focus on fruit quality. Dec 29, 2020. <https://www.goodfruit.com/binding-blueberry-breeders/>
- 7) Research Team Seeks to Boost Berry Quality, Jan. 3, 2019. <https://www.growingproduce.com/fruits/berries/research-team-seeks-to-boost-berry-quality/>
- 8) Blueberry Survey Seeks Industry Input NC Blueberry Council, Dec. 19, 2016. <http://ncblueberrycouncil.org/blueberry-survey-seeks-industry-input/>
- 9) Blueberry survey seeks industry input on breeding needs. Fruit Growers News, March 2017. <https://pgnglab.plantsforhumanhealth.ncsu.edu/wp-content/uploads/sites/3/2016/11/FGNMarch17.pdf>
- 10) Blueberry and Cranberry Survey Seeks Industry Input. Small Fruits News, Vol. 16, No.4, October 2016. <http://smallfruits.org/assets/documents/sfn/Vol16-Issue4.pdf>
- 11) Simon P., Iorizzo M., Ellison S., Senalik D., Zeng P., Satapoomin P., Bowman M., Iovene M., Sanseverino W., Cavagnaro P., Yildiz M., Macko-Podgórni A., Moranska E., Grzebelus E., Grzebelus D., Ashrafi H., Zheng Z., Cheng S., Spooner D. and Van Deynze A. 2016. The Carrot Genome Provides Insights Into Crop Origins and a Foundation for Future Crop Improvement. *Chronica Horticulturae*, 56-4. *Issue cover*.
- 12) Carota, un terzo del suo DNA e' unico, (2016). Terra e Vita, 25: 118-119 <http://www.terraevita.it/carota-terzo-suo-dna-unico/>
- 13) Scientists seek industry input on key traits of blueberries cranberries. Chilean Blueberry Committee, Oct. 11, 2016. <http://www.comitedearandanos.cl/scientists-seek-industry-input-on-key-traits-of-blueberries-cranberries/>
- 14) Scientists seek industry input on key traits of blueberries, cranberries. The Packer, Oct. 11, 2016. <http://www.thepacker.com/news/scientists-seek-industry-input-key-traits-blueberries-cranberries>
- 15) Cranberry and Blueberry Survey Seeks Industry Input. Cranberry Crop Management Journal, Oct. 9, 2016. <http://wood.uwex.edu/files/2012/09/Cranberry-Newsletter-2016-10.2.pdf>

NEWSLETTER ARTICLES:

1. What Makes Carrot orange? NC State News, Sept 28, 2023. <https://news.ncsu.edu/2023/09/what-makes-a-carrot-orange/>

2. VacCAP Newsletter Issue9. December 2023. <https://www.vacciniumcap.org/sites/default/files/inline-files/VacCAP%20Newsletter%20Issue%209.pdf>
3. VacCAP Newsletter Issue8.August 2023. <https://www.vacciniumcap.org/sites/default/files/inline-images/VacCAP%20Newsletter%20Issue%208.pdf>
4. VacCAP Newsletter Issue7. June 2023. https://www.vacciniumcap.org/sites/default/files/inline-files/VacCAP%20Newsletter%20Issue%207_0.pdf
5. VacCAP Newsletter Issue6. March 2023. <https://www.vacciniumcap.org/sites/default/files/VacCAP%20Newsletter%20Issue%206.pdf>
6. VacCAP Newsletter Issue5. August 2022. <https://www.vacciniumcap.org/sites/default/files/inline-files/Newsletter%20Issue%205%20Layout.pdf>
7. VacCAP Newsletter Issue4. April 2022. <https://www.vacciniumcap.org/sites/default/files/inline-files/Newsletter%20Issue%204%20Layout.pdf>
8. VacCAP Newsletter Issue3. August 2021. <https://www.vacciniumcap.org/sites/default/files/inline-files/Newsletter%20Issue%203%20Layout.pdf>
9. VacCAP Newsletter Issue 2. May 2021. https://www.vacciniumcap.org/sites/default/files/inline-files/Newsletter%20Issue%202%20Layout_0.pdf
10. VacCAP Newsletter Issue 1. August 2020. https://www.vacciniumcap.org/sites/default/files/inline-files/Newsletter%20Issue%201%20August%202020_2.pdf
11. PHHI team lands \$12.8 Million to improve fruit quality of Blueberry and Cranberry. PHHI Web Site, December 3, 2019. <https://plantsforhumanhealth.ncsu.edu/2019/12/03/phhi-team-lands-12-8-million-to-improve-fruit-quality-of-blueberry-and-cranberry/>
12. NCSU research team lands \$6.4M federal grant for berry research. WRAL TechWire, December 11, 2019. <https://www.wraltechwire.com/2019/12/11/ncsu-research-team-lands-6-4m-federal-grant-for-berry-research/>
13. US (NC): USDA grant awarded to NCSU for berry research. Horti Daily, December 11, 2019. <https://www.hortidaily.com/article/9171920/us-nc-usda-grant-awarded-to-ncsu-for-berry-research/>
14. NCSU obtiene casi \$ 13 millones para mejora de arándanos. Portal de Campo, December 6, 2019. https://portaldelcampo.cl/Noticias/74497_NCSU-obtiene-casi---13-millones-para-mejora-de-ar%C3%A1ndanos.html
15. NCSU obtains almost US \$ 13 million for cranberry improvement. Blueberry Magazine Consulting, December 5, 2019. <https://www.blueberriesconsulting.com/en/ncsu-obtiene-casi-13-millones-para-mejora-de-arandanos/>
16. \$12.8M grant used to improve fruit quality of blueberry, cranberry. Fruit Grower News, December 5, 2019. <https://fruitgrowersnews.com/article/12-8m-grant-used-to-improve-fruit-quality-of-blueberry-cranberry/>
17. NC State lands \$12.8 million to improve blueberry and cranberry fruit quality. Fresh Plaza, December 5, 2019. <https://www.freshplaza.com/article/9170253/nc-state-lands-12-8-million-to-improve-blueberry-and-cranberry-fruit-quality/>
18. NC State team lands \$12.8 million to improve fruit quality. Salisbury Post, December 4, 2019. <https://www.salisburypost.com/2019/12/04/nc-state-team-lands-12-8-million-to-improve-fruit-quality/>

19. NC State team lands \$12.8 million to improve fruit quality of blueberry and cranberry. Independent Tribune, December 4, 2019. https://www.independenttribune.com/townnews/economics/nc-state-team-lands-million-to-improve-fruit-quality-of/article_67a02b3b-fee4-50e3-a889-e851c20e4815.html
20. USDA Grant Awarded to NCSU for Berry Research. North Carolina Biotechnology Center web site, December 10, 2019. <https://www.ncbiotech.org/news/usda-grant-awarded-ncsu-berry-research>
21. N.C. State genetics scientists awarded \$12.8M to improve blueberries, cranberries. Business North Carolina. December 3, 2019. <https://businessnc.com/n-c-state-scientists-awarded-12-8m-to-genetically-improve-blueberries-cranberries/>
22. NCSU scores nearly \$13 million to improve blueberries and cranberries. Triangle business Journal, December 4, 2019. <https://www.bizjournals.com/triangle/news/2019/12/04/ncsu-scores-nearly-13-million-to-improve.html>
23. The banana as we know it is doomed. Popular Science. August 27, 2019. <https://www.popsci.com/banana-panama-disease-deadly-fungus/>
24. Banana challenges: Dole invests in student research for solutions. NC Research Campus, News and Events, August 15, 2017. <https://transforming-science.com/featured-research/banana-challenges-dole-invests-student-research-solutions/>
25. Leading blueberry and cranberry researchers convene in Kannapolis. Salisbury Post, May 2, 2017. <http://m.salisburypost.com/2017/05/02/leading-blueberry-cranberry-researchers-convene-kannapolis/>
26. Blueberry and Cranberry Survey Seeks Industry Input. Plants for Human Health Institute News, Oct. 11, 2016. https://pgnlab.plantsforhumanhealth.ncsu.edu/wp-content/uploads/sites/3/2016/11/News-Release_SCR1-v4-general.pdf
27. Bugs Bunny's Knowledge Confirmed. NC State News, May 18, 2016. <https://news.ncsu.edu/2016/05/bugs-bunnys-knowledge-confirmed/>
28. Research at NC State improves the carrot. Technician, August 22, 2016. http://www.technicianonline.com/features/article_f6fa81bc-6820-11e6-8a87-a3d3d6df569f.html

BLUEBERRY BREEDING TRAIT FLYERS:

1. Iorizzo M. and P. Perkins-Veazie. VacTrait: Soluble Solids Concentration. <https://www.vacciniumcap.org/vactrait>
2. Iorizzo M., C. Luby, L. Hilsop, L. Giongo, A. Atucha and L. Wasko DeVetter. VacTrait: Blueberry Shelf Life. <https://www.vacciniumcap.org/vactrait>
3. Iorizzo M., P. Perkins-Veazie and H. Oh. VacTrait: Titratable Acidity (TA) and pH in Blueberry. <https://www.vacciniumcap.org/vactrait>
4. Iorizzo M. VacCAP Trait: Chlorogenic Acid in Blueberry. <https://www.vacciniumcap.org/vactrait>

VI. SERVICE TO THE UNIVERSITY AND PROFESSIONAL SOCIETIES

VI.A. University Service

VI.A.1. Department, NCSU-Horticultural Science and Plant for Human Health Institute

1. **Chair** – Post-Tenure Review committee, 2022-2023;
2. **Chair** – Strategic Plan, Crop improvement group, 2021-2023.
2. **Member** – Advisory committee, 2019-2022;
3. **Member** – Department of Hort Sci Strategic plan Executive Committee, 2019-present;
4. **Member** – Post-Tenure Review committee, 2020-2022;
5. **Member** – Graduate admission committee, 2015-2019, 2023-present;
6. **Member** – Fruits working group committee, 2015-2016;
7. **Member** – Vegetables working group committee, 2015-2016;
8. **Member** – Awards and Nominations committee, 2016;
9. **Member** – Plant Elucidation Pathway technical committee, 2015-2020;
10. **Member** – Graduate Student Representative, Nutrition program, 2015-present.

VI.A.2. College

CALS Search Committee for Tenure track faculty and administrative positions (6):

1. **Chair** – Assistant Professor, Vegetable molecular breeding for sustainable production, 2023-present (Position # 00109661)
2. **Member** – Advanced Nutrigenomics of Bioactive Phytochemicals, 2024-present;
3. **Member** – Translational Phenomics, 2022-2023 (Position # 00109869);
4. **Member** – Translational Food Science and Nutrition (Position # 00104962);
5. **Member** – Regenerative Medicine (Position 00104960)
6. **Member** – PHHI Business Director Search Committee (Position)

CALS Research and other committee (8):

1. **Member** – CALS Research Committee (CRC) – 2023-present;
2. **Member** – Emerging Research Showcase Steering Committee 2023-2024;
3. **Member** – Plant breeding consortium – bioinformatics support advisory committee, 2020-2022;
4. **Member** – Organizing committee workshop: Computing Skills in Plant Breeding, 2022;
5. **Member** – CALS, Plant Sciences Initiative Programing Group J interviews, 2016;
6. **Member** – NCSU-GSL, panel discussion for acquisition of a Pacific Bioscience Sequel sequencing machine, 2016;
7. **Member** – Plant breeding consortium – working group, 2019-present.
8. **Graduate Student Representative**, Nutrition program, 4 MS/PhD students, 2015-present

VI.B. Professional service off campus

National working groups/projects (3):

1. **Chair** – ASHS, Genetic and Germplasm working group, 2020-2022;
2. **Member** – Small Fruits Crop Germplasm Committee, National Germplasm System, 2016-present;
3. **Member** – Advisory Board member for the project: Tools for Polyploids - 2020-present.

National and international conference organization (9)

National conferences (1): Chair – Fruit Breeding workshop, ASHS 2023.

International conference (8):

1. **Organizer/Chair** – 41st International Carrot Conference, Raleigh July 9-10, 2023-2024;
2. **Chair/moderator** – Fruit and Nut Workshop at the International Plant and Animal Genome conference 2018;
3. **Chair/moderator** – Blueberry Europe 2019;
4. **Chair/moderator** – ISHS Carrot International Symposium 2018;
5. **Chair/moderator** – ISHS Vaccinium International Symposium 2021;

6. **Chair/moderator** – Apiaceae Workshop at the International Plant and Animal Genome conference, 2022;
7. **Chair/moderator** – IHC - Breeding and effective use of biotechnology and molecular tools in horticultural crops, Angers, 2022;
2. **Member** – Scientific committee, International Vaccinium Symposium Scientific Committee, 2023-2024.

Academic service outside NCSU:

National: Reviewer for tenure promotion, The Ohio State University

International: Member - PhD program committee, Environmental Health Sciences, University of Ferrara (Italy).

Consultant service outside NCSU - Served as external industry consultant to review research proposal, 2019

VII. EXTERNAL EVALUATIONS

Content to be added by the Department Head at a later date

VIII. DEPARTMENTAL ASSESSMENT AND RECOMMENDATION

Content to be added by the Department Head at a later date

IX. COLLEGE ASSESSMENT AND RECOMMENDATION

Content to be added by a College Representative at a later date