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**1. Educational background:**

2009 - Ph.D., Agrobiological and Agrochemistry, University of Naples (Italy), “Genomic tools to study advanced potato lines obtained by genetic and genomics engineering”. Major Advisors: Domenico Carputo and Luigi Frusciante

2005 - M.S., Agricultural Science, 2005, University of Naples (Italy)

**2. Appointment and research experience:**

Aug. 2020-present Associate Professor, North Carolina State University, Plants for Human Health Institute and Department of Horticultural Science, NC

Jul. 2015-Aug. 2020 Assistant Professor, North Carolina State University, Plants for Human Health Institute and Department of Horticultural Science, NC

Apr. 2010-Jun. 2015 Assistant Scientist and post-doctoral fellow, University of Wisconsin-Madison, Department of Horticulture

Apr. 2006-Apr. 2010 Ph.D. student and Post-doctoral fellow, University of Naples, Department of Horticulture

Nov. 2006-Apr. 2008 Visiting student, University of Minnesota, Department of Plant Pathology

**3. Scholarly and creative activities:**

- Authored 319 (since 2009) publications and presentations, including 80 peer-reviewed publications, 147 poster/abstract presentations at national and international conferences, 50 oral presentations and 42 reports and extension articles/resources;
- Director and/or co-principal investigator in 23 projects, totaling over \$ 13.4M in awarded funds, \$ 8.4M directly awarded to his research program;
- Mentored and trained 34 graduate, undergraduate students and post-docs in plant genetics and genomics;
- Established the first *Vaccinium* breeding and genetic community, that include >50 blueberry and cranberry breeders, geneticists and allied extension specialists and scientists from US and international collaborators from Canada, Italy, Scotland and New Zealand.
- Google scholar citations (2008-2022), 2,334, h-index 24, i10-index 42, [Link](#)

**4. Membership in professional organizations:**

- |                                                                  |              |
|------------------------------------------------------------------|--------------|
| 1. National Association of Plant Breeding (General member)       | 2017-present |
| 2. American Society of Horticultural Science (ASHS)              | 2017-present |
| - Chair Elected of the Genetic and Germplasm working group       | 2020-present |
| 3. International Phytomedomics and Nutriomics Consortium (IPNC), | 2019-present |
| - Member of the Organizing Committee                             | 2020-present |
| 4. Genetic Society of America                                    | 2017-2019    |

**5. Scholarly awards and highlights:**

- Merit Student Fellowship, University of Naples, Federico II, 1999-2004;
- PhD Fellowship, Department of Horticulture, University of Naples, Federico II, 2005-2008;
- Outstanding Ph.D. thesis Award in plant breeding and plant genetics, Italian Association of Agricultural Scientific Societies, 2010

- Journal issue covers and highlights: *Nature Genetics* issue cover, Vol. 48-6, June 2016; *HortScience* issue cover, Vol. 53-7, 2018; *Genetics* issue cover, Vol. 210-4, 2018; *American Journal of Botany*, issue highlights, Vol. 104-2;

## 6. Administrative service at NCSU

### **University Service/College (committee and working groups)**

- NCSU-GSL, member of the panel discussion for acquisition of a Pacific Bioscience Sequel sequencing machine, 2016
- Graduate Student Representative, Nutrition program, 2015-present
- Plant breeding consortium –member of the bioinformatics support advisory committee - 2019-present

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

- Search committee:
- a. Translational Food Science and Nutrition, 2015-2016
  - b. Regenerative Medicine, 2015-2016
  - c. PHHI Business Director Search Committee, 2017

### Departmental committee:

- a. Graduate admission committee, 2015 – 2019
- b. Fruits working group committee, 2015 – 2016
- c. Vegetables working group committee, 2015 – 2016
- d. Awards and Nominations committee, 2016
- e. Plant Elucidation Pathway technical committee, 2015 – present
- f. Advisory committee, 2019-present
- g. Department of Hort Sci Strategic plan Executive Committee, 2019-present
- h. Post-Tenure Review committee, 2020-present
- i. Strategic Plan, Crop improvement group, Chair, 2021-present

## 7. Professional service outside NCSU:

- Member of the Small Fruits Crop Germplasm Committee, National Germplasm System, 2016-present
- Reviewer for funding agencies: USDA-NIFA Hatch project (1); USDA-NIFA Special Grant for Potato Breeding Research (1); Foundation for Food and Agriculture Research (FFAR) (5); United States - Israel Binational Agricultural Research & Development Fund (BARD)(1); Canada Foundation for Innovation (CFI)(1);
- Reviewer for 45 journals (83 articles) Including *Nature Genetics*, *Nature Biotechnology* 2014-present
- Served as external industry consultant to review research proposal, 2019
- Chaired and moderated four International conference workshops (Fruit and Nut Workshop at the International Plant and Animal Genome conference 2018, Blueberry Europe 2019, ISHS Carrot Int. Symposium 2018, ISHS Vaccinium Int. Symposium 2021; Apiaceae Workshop at the International Plant and Animal Genome conference, 2022);
- Guest editor for the following Research Topics:
  1. *“Interdisciplinary Approaches to Improve Quality of Soft Fruit Berries Volume II”* in *Frontiers Plant Science*, 2021.
  2. *“Genetic and Environmental Factors Influencing Anthocyanin Pigmentation in Crop Plants”* in *Plants*, 2021.
  3. *“Wild Crops Relatives and Herbals as Source of Metabolic Biodiversity: Biochemical, Genetic and Biotechnological Approaches for Their Exploitation”* in *Plants*, 2021.
  4. *“Interdisciplinary Approaches to Improve Quality of Soft Fruit Berries Volume II”* in *Frontiers Plant Science*, 2020.
- Member of the Advisory Board for the project: Tools for Polyploids - 2020-present

- Wrote early career award letter for the National Association of Plant Breeding (NAPB)

### Funding activity (since 2015)

Program type*	Number		Dollars		
	Submitted	Awarded	Requested	Awarded	Awarded to program
Federal/State/Commodity /International	33	16	21.1M	12.7M	7.7M
Unrestricted gifts/in kind services	7	7	0.7M	0.7M	0.7M
<b>Total</b>	<b>40</b>	<b>23(58%)</b>	<b>21.8M</b>	<b>13.45M</b>	<b>8.4M</b>
<b>Role</b>					
PD	11	10	8.2M	7.85M	7.85M
Co-PD	5	3	4.3M	0.08M	0.02M
Co-PI	24	10	9.1M	5.5M	0.5M
<b>Total</b>	<b>40</b>	<b>23</b>	<b>21.8M</b>	<b>13.45M</b>	<b>8.4M</b>
<b>Average/Year</b>	<b>6.2</b>	<b>3.5</b>	<b>3.4M</b>	<b>2.1M</b>	<b>1.29M</b>

\* Note funding from Test Service Agreement (\$20,000), and match (\$7.4M) are not included in this table, and

### Publications and presentations

#### Scholarly and creative activities:

<b>REFEREED ACTIVITIES<sup>‡</sup></b>	<b>Prior NCSU*</b>	<b>Since at NCSU**</b>	<b>Total***</b>
<i>Journal articles</i>	25	36	61
<i>Book Chapters</i>	1	7	8
<i>Book (edited)</i>	-	2	2
<i>Conference Proceedings</i>	-	9	9
<b>Subtotal</b>	<b>26</b>	<b>54</b>	<b>80</b>
<b>Average/year</b>	<b>4.3</b>	<b>7.7</b>	<b>6.1</b>
<b>NON-REFEREED ACTIVITIES</b>			
<i>Poster presentations</i>	25	38	63
<i>Conference abstracts</i>	44	40	84
<i>Research presentations (speaker)</i>	5	29	34
<i>Seminars, invited</i>	7	9	16
<i>Trade Magazine articles</i>	-	12	12
<i>Newsletter articles</i>	-	21	21
<i>Project report</i>	-	9	9
<b>Subtotal</b>	<b>81</b>	<b>158</b>	<b>239</b>
<b>Average/year</b>	<b>13.5</b>	<b>22.5</b>	<b>18.4</b>
<b>Total</b>	<b>107</b>	<b>212</b>	<b>319</b>
<b>Total average/year</b>	<b>17.8</b>	<b>30.3</b>	<b>24.5</b>

\* 2009-2015 (6 years); \*\*2015-2022 (7 years); \*\*\*2009-2022 (13 years)

‡ does not include 7 manuscript submitted

## Refereed Journal Articles

1. Yow A.G., H. Bostan, R. Castanera, V. Ruggieri, J. Curaba, R. Young, N. Gillitt and **M. Iorizzo**. 2021. An improved high-quality genome assembly and annotation of pineapple (*Ananas comosus*) cultivar MD2 revealed extensive haplotype diversity and expanded FAR1 gene family. *Genes* 2022, 13, 52.
2. Bannoud F., Carvajal S., Ellison S., D. Senalik, Talquenca S.G., **Iorizzo M.**, Simon P. and P.F. Cavagnaro. 2021. Genetic and transcription profile analysis of tissue-specific anthocyanin pigmentation in carrot root phloem. *Genes* 2021, 12, 1464.
3. 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.
4. Giongo L., Ajelli M., Pottorff M., Perkins-Veazie P. 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.
5. 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).
6. Hayes M. Corbin S., Nunn C., Pottorff M., Kay C., Lila M.A., **Iorizzo M.**, 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.
7. 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 Plan Science*, 12:692628.
8. Hulse-Kemp A.M., Bostan H., Chen S., Ashrafi H., Stoffe K., Sanseverino W., Li L., Cheng S., Schatz M., Garvin T., Tseng E., Chin J., **Iorizzo M.\*** 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*, 2021; 1-14.
9. Diaz-Garcia L., Garcia-Ortega L.F., Rodríguez M.G., Delays L., **Iorizzo M.** and J. Zalapa. Chromosome-level genome assembly of the American cranberry (*Vaccinium macrocarpon* Ait.) and its wild relative *Vaccinium microcarpum*. *Frontiers in Plant Science*, 12:633310.
10. Kulkarni K.P., Vorsa N., Natarajan P., Elavarthi S., **Iorizzo M.**, Reddy U.K. and. 2020. Genetic admixture analysis of northern- and southern highbush blueberries using genotyping-by-sequencing (GBS). *International Journal of Molecular Science*, 22: 163.
11. Mengist M.F., Burtch H., Debelo H., Pottorff M., Bostan H., Nunn C., Corbin S., Kay C.D., Bassil N., Hummer K., Lila M.A., Ferruzzi M. 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.
12. Farneti B., Emanuelli F., Giongo L., Toivonen P., **Iorizzo M.**, Folta K.M. and C.E. Finn. 2020. Editorial: Interdisciplinary Approaches to Improve Quality of Soft Fruit Berries. *Frontiers in Plant Science*, 11:592222.
13. **Iorizzo M.**, Curaba J., Pottorff M., Ferruzzi G.M., Simon. P. and Cavagnaro P. 2020. Carrot anthocyanins genetics and genomics: status and perspectives to improve its application for the food colorant industry. *Genes*, 11: 906.
14. Hayes M., Pottorff M., Kay C., Van Deynze A., Osorio-Marin J., Lila M.A., **Iorizzo M.\*** 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.
15. Mengist M.F., Grace M.H, Xiong J., Kay C.D., Bassil N., Hummer K., Ferruzzi M., Lila M.A. 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.
16. Curaba J., Bostan H., Cavagnaro P., Senalik D., Mengist M.F., Zhao Y., Simon P. and **M. Iorizzo\***. 2020. Identification of an SCPL gene Controlling Anthocyanin Acylation in Carrot (*Daucus carota* L.) Root. *Frontiers in Plant Science*, 10:1770.
  17. Strauch R.C., Mengist M.F., Pan K., Yousef G.G., **Iorizzo M.**, Brown A.F. and M.A. Lila. 2019. Variation in Anthocyanin Profiles of 27 Cultivars of Red Cabbage Over Two Growing Seasons. *Food Chemistry*, 301:125289.
  18. Bannoud F., Ellison S., Paolinelli M., Horejsi T., Senalik D., Fanzone M., **Iorizzo M.**, Simon P.W. 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
  19. **Iorizzo M.**, Cavagnaro P.F., Bostan H., Zhao Y., Zhang J. and Simon P.W. 2019. A Cluster of MYB Transcription Factors Regulates Anthocyanin Biosynthesis in Carrot (*Daucus carota* L.) Root and Petiole. *Frontiers in Plant Science*, 9:1927.
  20. Villano C., Esposito S., Carucci F., **Iorizzo M.**, Carputo D. and Aversano R. 2018. High-throughput genotyping in onion reveals structure of genetic diversity and informative SNPs useful for molecular breeding. *Molecular Breeding*, 39:5.
  21. Ellison A.L., Luby C.H., Corak K., Coe K., Senalik D., **Iorizzo M.**, Goldman I.L., Simon P.W. and Dowson J.C. 2018. Association analysis reveals the importance of the *Or* gene in carrot (*Daucus carota* L.) carotenoid accumulation and domestication. *Genetics*, 210:1497-1508. **Issue cover. Selected for Genetics February Spotlight.**
  22. Gallardo R.K., Zhang Q., Polashock J., Atucha A., Zalapa J., Rodriguez-Saona C., Vorsa N. and **Iorizzo M.\***. 2018. Breeding Trait Priorities of the Cranberry Industry in the United States and Canada. *HortScience*, 53:1467-1474.
  23. Covarrubias-Pazarán G., Schlautman B., Diaz-Garcia L., Grygleski E., Polashock J., Johnson-Cicalese J., Vorsa N., **Iorizzo M.** and Zalapa J. 2018. Validating Multivariate Genomic Selection and Genome-Wide Association Methods for Cranberry Breeding. *Frontiers in Plant Science*, 9:1310.
  24. Machaj G., Bostan H., Macko-Podgorni A., **Iorizzo M.** and Grzebelus D. 2018. Comparative transcriptomics of root development in wild and cultivated carrots. *Genes*, 9:431.
  25. Gallardo R.K., Zhang Q., Dossett M., Polashock J., Rodriguez-Saona C., Vorsa N., Edger P.P., Ashrafi H., Babiker E., Finn C.E. and **Iorizzo M.\***. 2018. Breeding Trait Priorities of the Blueberry Industry in the United States and Canada. *HortScience*, 53:1021-1028. **Issue cover.**
  26. Schlautman B., Diaz-Garcia L., Covarrubias-Pazarán G., Schlautman N., Vorsa N., Polashock J., Ogden E.L., Brown A., Lin Y.C., **Iorizzo M.**, Rowland L.J. and Zalapa J. 2018. Comparative genetic mapping reveals synteny and collinearity between the America cranberry and diploid blueberry genomes. *Molecular Breeding*, 38:9.
  27. Ellison S., Senalik D., Bostan H., **Iorizzo M.** and Simon P. 2017. Fine mapping, transcriptome analysis, and marker development for *Y<sub>2</sub>*, the gene that conditions beta-carotene accumulation in carrot (*Daucus carota* L.). *G3*, 7:2665-2675.
  28. Schlautman B., Covarrubias-Pazarán G., Diaz-Garcia L., **Iorizzo M.**, Polashock J., Grygleski E., Vorsa N. and Zalapa J. 2017. Construction of a high-density American cranberry (*Vaccinium macrocarpon*) composite map using genotyping-by-sequencing for multipedigree linkage mapping. *G3*, 7:1177-1189.
  29. Spooner D.M., Ruess H., **Iorizzo M.**, Senalik D. and Simon P. 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.**

30. Macko-Podgórní A., Machaj G., Stelmach K., Senalik D., Grzebelus E., **Iorizzo M.**, Simon P.W. and Grzebelus D. 2017. Characterization of a genomic region under selection in cultivated carrot (*Daucus carota* subsp. *sativus*) reveals a candidate domestication gene. *Frontiers in Plant Science*, 8:12.
31. Mandel J. R., Ramsey A.J., **Iorizzo M.**, Simon P.W. 2016. Patterns of gene flow between crop and wild carrot, *Daucus carota* (Apiaceae) in the United States. *PLoS ONE*, 11(9):e0161971.
32. **Iorizzo M.**, Ellison S., Senalik D., Zeng P., Satapoomin P., Bowman M., Iovene M., Sanseverino W., Cavagnaro P., Yildiz M., Macko-Podgórní A., Moranska E., Grzebelus E., Grzebelus D., Ashrafi H., Zheng Z., Cheng S., Spooner D., Van Deynze A. and Simon P. 2016. A high-quality carrot genome assembly reveals new insights into carotenoid accumulation and Asterid genome evolution. *Nature Genetics* 48:657–666. **Issue cover.**
33. Covarrubias-Pazarán G., Diaz-García L., Schlautman B., Deutsch J., Salazar W., Hernández-Ochoa M., Grygleski E., Steffan S., Iorizzo M., Polashock J., Vorsa N. and Zalapa J. 2016. Exploiting genotyping by sequencing to characterize the genomic structure of an understudied species, the American cranberry, through high-density linkage mapping. *BMC Genomics*, 17-451.
34. Villano C., Miraglia V., **Iorizzo M.**, Aversano R. and Carputo D. 2016. Combined use of molecular markers and High-Resolution Melting (HRM) to assess chromosome dosage in potato hybrids. *Journal of Heredity*, 107:187-92.
35. Schlautman B., Covarrubias-Pazarán G., Diaz-García L.A., Johnson-Cicalese J., **Iorizzo M.**, Rodríguez-Bonilla L., Bougie T., Wiesman E., Steffan S., Polashock J., Vorsa N. and Zalapa J. 2015. Development of a high-density cranberry SSR linkage map for comparative genetic analysis and trait detection. *Molecular Breeding*, 35: 177. 2-s2.0-84939151043
36. Kole C., Muthamilarasan M., Henry R., Edwards D., Sharma R., et al. 2015. Application of genomics-assisted breeding for generation of climate resilient crops: Progress and prospects. *Frontiers in Plant Science*, 6:563.
37. Aversano R., Contaldi F., Ercolano M.R., Grosso V., **Iorizzo M.**, Tantino F., Xumerle L., Dal Molin A., Avanzato C., Ferrarini A., Delledonne M., Sanseverino W., Aiese Cigliano R., Capella-Gutierrez S., Gabaldon T., Frusciante L., Bradeen J.M. and Carputo D. 2015. The *Solanum commersonii* genome sequence provides insight into adaptation to stress conditions and genome evolution of wild potato relatives. *The Plant Cell*, tpc.114.135954. **Issue cover.**
38. Millett B., Gao L., **Iorizzo M.**, Carputo D. and Bradeen J. 2015. Potato tuber blight resistance phenotypes correlate with RB transgene transcript levels in an age-dependent manner. *Phytopathology*, 105(8):1131-6.
39. Parsons J., Roberts R., **Iorizzo M.**, Matthews W. and Simon P. 2014. QTL for *Meloidogyne incognita* nematode resistance in carrot. *Molecular Breeding*, 25:114.
40. Cavagnaro P.F., **Iorizzo M.**, Yildiz M., Senalik D., Parsons J., Ellison S. and Simon P. 2014. A gene-derived SNP-based high-resolution linkage map of carrot including the location of QTL conditioning root and leaf anthocyanin pigmentation. *BMC Genomics*, 15(1):1118.
41. **Iorizzo M.**, Gao L., Mann H., Traini A., Chiusano M.L., Carputo D., Kilian A., and Bradeen J.M. 2014. Structural genome comparison of A and B genome *Solanum* species facilitated by DArT marker/reference genome sequence analysis. *BMC Genetics*, 15:123. Highly accessed article.
42. Macko-Podgórní A., **Iorizzo M.**, Smólka K., Simon P.W. and Grzebelus D. 2014. Conversion of a Diversity Arrays Technology marker differentiating wild and cultivated carrots to a co-dominant Cleaved Amplified Polymorphic Site marker. *Acta Biochimica Polonica*, 61: 19-22.
43. Aamir A., Matthews W.C., Cavagnaro P.F., **Iorizzo M.**, Roberts P.A. and Simon P.W. 2014. Inheritance and mapping of *Mj-2*, a new source of root-knot nematode (*Meloidogyne javanica*) resistance in carrot. *Journal of Heredity*, 105: 288-291.

44. Grzebelus D., **Iorizzo M.**, Senalik D., Repinski S., Cavagnaro P., Macko-Podgorni A., Heller-Uszynska K., Kilian A., Nothnagel T., Simon P.W. and Baranski R. 2014. Diversity Arrays Technology (DArT) platform for genotyping and mapping in carrot (*Daucus carota* L.). *Molecular Breeding*, 33: 625-637.
45. Muccillo L., Gambuti A., Colantuoni V., **Iorizzo M.**, Frusciante L., Moio L., Raieta K., Rinaldi A. and Aversano R. 2013. Chemical and genetic profiling of autochthonous grapevines from Campania region. *Food Chemistry*, 143: 506-13.
46. **Iorizzo M.**, Senalik D., Ellison S., Grzebelus D., Cavagnaro P., Allender C., Brunet J., Spooner D., Van Deynze A. and Simon P.W. 2013. Genetic structure and domestication of carrot (*Daucus carota* subsp. *sativus* L.)(Apiaceae). *American Journal of Botany*, 100: 930-938.
47. Traini A., **Iorizzo M.**, Mann H., Bradeen J.M., Carputo D., Frusciante L. and Chiusano M.L. 2013. Genome microscale heterogeneity among wild potatoes revealed by Diversity Arrays Technology marker sequences. *International Journal of Genomics*, doi:10.1155/2013/257218.
48. Yildiz M., Willis D.K., Cavagnaro P.F., **Iorizzo M.**, Abak K. and Simon P.W. 2013. Expression and mapping of anthocyanin biosynthesis genes in carrot. *Theoretical and Applied Genetics*, 10.1007/s00122-013-2084-y.
49. Alessandro M.S., Galmarini C.R., **Iorizzo M.** and P.W. Simon P.W. 2012. Molecular mapping of vernalization requirement and fertility restoration genes in carrot. *Theoretical and Applied Genetics*, 126: 415-23.
50. **Iorizzo M.**, Grzebelus D., Senalik D., Szklarczyk M., Spooner D. and Simon P. 2012. Against the traffic: The first evidence for mitochondrial DNA transfer into the plastid genome. *Mobile Genetic Elements*, 2:1-6.
51. Adamo P., Zampella M., Quetel C., Aversano R., Dal Piaz F., De Tommasi N., Frusciante L., **Iorizzo M.**, Lepore L. and Carputo D. 2012. Biological and geochemical markers of the geographical origin and genetic identity of potatoes. *Journal of Geochemical Exploration*, 121: 62-68.
52. **Iorizzo M.**, Senalik D., Szklarczyk M., Grzebelus D., Spooner D. and Simon P. 2012. *De novo* assembly of the carrot mitochondrial genome using next generation sequencing of whole genomic DNA provides first evidence of DNA transfer into an angiosperm plastid genome. *BMC Plant Biology*, 12: 61. **Highly accessed article**.
53. Villano C., Aversano R., Frusciante L., Garramone R., **Iorizzo M.** and Carputo D. 2012. Utilizzazione di marcatori molecolari SSR e AFLP per l'identificazione varietale in patata. *Minerva Biotecnologica*, 24: 3-10.
54. **Iorizzo M.**, Senalik D., Grzebelus D., Bowman M., Cavagnaro P., Matvienko M., Ashrafi H., Van Deynze A. and Simon P. 2011. *De novo* assembly and characterization of the carrot transcriptome reveals novel genes, new markers, and genetic diversity. *BMC Genomics*, 12: 389. **Highly accessed article**.
55. Cavagnaro P., Chung S., Manin S., Yildiz M., Ali A., Alessandro M., **Iorizzo M.**, Senalik D. and Simon P. 2011. Microsatellite isolation and marker development in carrot, genomic distribution, linkage mapping, genetic diversity analysis and marker transferability across Apiaceae. *BMC Genomics*, 12: 386.
56. **Iorizzo M.**, Mollov D., Carputo D. and Bradeen J.M. 2011. Disease resistance gene transcription in transgenic potato is unaltered by temperature extremes and plant age. *European Journal of Plant Pathology*, 130: 469-476.
57. **Iorizzo M.**, Aversano R., Bradeen J.M., Frusciante L. and Carputo D. 2011. Fertilization fitness and offspring ploidy in 3x x 2x matings in potato. *Plant Biosystems*, 146: 317-321.
58. Miraglia V., Iorizzo M. and Aversano R. 2010. A new approach to assess chromosome dosage in potato hybrids. *Minerva Biotecnologica*, 22: 46-48.
59. Bradeen J.M., **Iorizzo M.**, Mollov D.S., Raasch J., Cotton Kramer L., Millet B.P, Austion-Phillips S., Jiang J. and Carputo D. 2009. Higher copy numbers of the potato *RB* transgene

correspond to enhanced transcript and late blight resistance levels. *Molecular Plant-Microbe Interactions*, 22: 437-446.

60. Millet B.P., Mollov D.S., **Iorizzo M.**, Carputo D., Bradeen J.M. 2009. Changes in disease resistance phenotypes correlated with plant physiological age are not caused by variations of R gene transcription. *Molecular Plant-Microbe Interactions*, 22: 362-366.
61. Carputo D., Aversano R., Barone A., Di Matteo A., **Iorizzo M.**, Sigillo L., Zoina A. and Frusciante L. 2009. Resistance to *Ralstonia solanacearum* of sexual hybrids between *Solanum commersonii* and *S. tuberosum*. *American Journal of Potato Research*, 86: 196-202.

## **Books**

### **Published book chapters**

1. **M. Iorizzo**, M. Fentie Mengist, and N. D'Agostino. Perspectives of Advanced Genetics and Genomics Approaches to Exploit Solanum Wild Crop Relatives for Breeding. 2021. In: Wild Solanum Genomes. Compendium of Plant Genomes. Springer International Publishing, (In press).
2. Bostan H., Senalik D., Simon PW, and **Iorizzo M.** 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
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### **Book (edited)**

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1. Humann J., Cheng C.-H., Lee T.L., Buble K., Jung S., Yu J., Hough H., Crabb J., Frank M., Scott K., **Iorizzo M.** and D. Main. 2021. Using the Genome Database for Vaccinium for



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2. Perkins-Veazie P., G. Ma, M. Pottorff, M.A. Lila and **M. Iorizzo**. 2021. New tools for rapid fruit quality analysis in blueberry. Proceedings of the XII International Vaccinium Symposium, in press.
  3. **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. 2021. 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, in press.
  4. Giongo L., M. Ajelli, M. Pottorff, K. Coe, P. Perkins-Veazie, N. Bassil, K. Hummer, B. Farneti, **M. Iorizzo**. Comparative study on texture: a key for blueberry quality breeding. Proceedings of the XII International Vaccinium Symposium, in press.
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### **Poster Presentations**

1. 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, 2021, Angers, France.
2. 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.
3. 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.
4. Pottorff M., Zielinski K., Mengist M., Honigs D., Grace M., Lila M.A. 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.
5. Yalcin O., Finn C., Mackey T., M. Pottorff, **M. Iorizzo**, M. Hardigan, C. Luby, 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.

6. Yow, A.G., Bostan, H., Young, R.A., Gillitt, N., and **Iorizzo, M.** (2021, January). Improvements in Pineapple (*Ananas comosus*) cultivar 'MD2' Genome Assembly and Gene Models. Genomes of Animals & Plants Virtual Conference, January 12-14.
7. Hayes, M., Pottorff, M., Kay, C., Lila, M.A., **Iorizzo, M.** and Ferruzzi, M., 2020. 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).
8. Chacon Jimenez J.G., Olukolu B., Mollinari M., Louws F., **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.
9. Yow, A.G., Bostan, H., Young, R.A., Gillitt, N., and **Iorizzo, M.** A Phased Chromosome-Scale Genome Assembly for Pineapple (*Ananas comosus* var. *comosus*). NCSU Plant Breeding Symposium, February 6, 2020, Raleigh, NC.
10. **Iorizzo M.**, Lila M.A., Perkins-Veazie P., Pottorff M., Finn C, Vorsa N., Edger P., Bassil N., Munoz P., Zalapa J., Gallardo K.R., Atucha A., Main D., Giongo L., Li C., Polashock J., Sims C., Canales E., DeVetter L., Chagne D., Espley R., Coe 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.
11. Mengist M.F., Grace H.M., Xiong J., Kay. D.C, Bassil N., Hummer K., Ferruzzi M., Lila M.A., **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.
12. 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.
13. Yow, A.G., Bostan, H., Young, R.A., Gillitt, N., and **Iorizzo, M.** 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.
14. Hayes M., Pottorff M., Kay C., Van Deynze A., Osorio-Marin J., Lila M.A., **Iorizzo M.**, 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.
15. Burtch H., Kay C., Lila M.A., Finn C.E., Fentie Mengist M., **Iorizzo M.**, 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.
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17. Carvalho de Santana M., **Iorizzo M.**, Ferruzzi M., Lila M.A., Kay C. 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.
18. Quiroz E., Munoz B., James K. and **Iorizzo M.** Plant tissue-culture propagation of banana. VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.

19. James K., Muñoz B., Quiro E., Jin F., Fabian M. and **Iorizzo M.** Total phenolics characterization in selected banana cultivars. VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
20. 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.
21. Morrison R., Zielinski K., Mengist M.F., Ashrafi H., Lila M.A. and **Iorizzo M.** Exploring anthocyanin content variation in blueberry germplasm (*Vaccinium* sp.). VI Plant Pathways Elucidation Project Summer Research Symposium, August 1, 2018, Kannapolis, North Carolina, USA.
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30. Bostan H., Ellison S., Senalik D., Simon P., and **Iorizzo M.** 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.
31. Ratchford A., Choltus D., Mandujano V., Muñoz B., Bostan H., Muñoz M., Gillitt N. and **Iorizzo M.** BananaDB: A project data management system to organize lab and field data collected from banana germplasm collections. VI Plant Pathways Elucidation Project Summer Research Symposium, August 2, 2017, Kannapolis, North Carolina, USA.

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40. Ellison S., **Iorizzo M.**, Simon P. and Senalik D. 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.
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44. **Iorizzo M.**, Senalik D., Ellison S., Grzebelus D., Cavagnaro P.F., Spooner D., Van Deynze A. and Simon P. 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.
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  47. Bradeen J.M., Millett B.P., Gao L., **Iorizzo M.** and Carputo D. 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.
  48. **Iorizzo M.**, Senalik D., Szklarczyk M., Grzebelus D. and Simon P. De novo Assembly of the Carrot Mitochondrial Genome. Plant and Animal Genome Conference, San Diego, CA, January 14-18, 2012, Poster Abstract P0040.
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  51. Miraglia V., Traini A., Bradeen J.M., **Iorizzo M.**, Mann H., Chiusano M.L. and Carputo D. 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.
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### **Abstracts**

1. 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**. Autopolyploid inheritance and a heterozygous reciprocal translocation shapes chromosome genetic behavior in tetraploid blueberries. XXIX Plant & Animal Genome, January 8-12, 2022, San Diego, California, USA.
2. Coe K., S. Ellison, W. Rolling, D. Senalik, J. Dawson, **M. Iorizzo**, P. Simon. New Insights into the Genetic Mechanisms Controlling Carotenoid Accumulation in Carrot. XXIX Plant & Animal Genome, January 8-12, 2022, San Diego, California, USA.
3. **Iorizzo M.**, Mengist M.F., Bostan H., Curaba J., 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.
4. Pottorff M., Zielinski K., Mengist M., Honigs D., Grace M., Lila M.A. 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.
5. Qi X., E.L. Ogden, D.J. Sargent, H. Boston, J. Ward, J. Gilbert, **M. Iorizzo** and L.J. Rowland. 2021. 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.
6. Humann J., Cheng C.-H., Lee T.L., Buble K., Jung S., Yu J., Hough H., Crabb J., Frank M., Scott K., **Iorizzo M.** 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.
7. Phillips M., Diaz-Garcia L., Grygleski E., Giongo L., Atucha A., **M. Iorizzo** and J. Zalapa. Cranberry challenges in distinguishing soft and firm berries. ASHS Annual Conference, August 5-9, 2021, Denver, Colorado.
8. 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, **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.

9. 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.
10. 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.
11. 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.
12. Yalcin O., Finn C., Mackey T., M. Pottorff, **M. Iorizzo**, M. Hardigan, C. Luby, 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.
13. Chacon Jimenez J.G., Olukolu B., Mollinari M., Louws F., 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.
14. **Iorizzo M.**, Lila M.A., Perkins-Veazie P., Pottorff M., Finn C, Vorsa N., Edger P., Bassil N., Munoz P., Zalapa J., Gallardo K.R., Atucha A., Main D., Giongo L., Li C., Polashock J., Sims C., Canales E., DeVetter L., Chagne D., Espley R., Coe 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.
15. Mengist M.F., Grace H.M., Xiong J., Kay. D.C, Bassil N., Hummer K., Ferruzzi M., Lila M.A., **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.
16. Iorizzo M., Bostan H., Curaba J., Ellison S., Senalik D., and P.W. Simon. Improved 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.
17. 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.
18. Zielinski K., Honigs D., Grace M., Mengist M.F., Lila M.A 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.
19. Hayes M., Pottorff M., Kay C., Van Deynze A., Osorio-Marin J., Lila M.A., **Iorizzo M.**, 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.
20. Burtch H., Kay C., Lila M.A., Finn C.E., Fentie Mengist M., **Iorizzo M.**, 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.
21. Young E., Redpath L., **Iorizzo M.** and Ashrafi H. Fruit quality related trait evaluation in a segregating F<sub>1</sub> 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.
22. Hulse-Kemp A.M., Bostan H., Ashrafi H., Stoffel K., Sanseverino W., Li L., Cheng S., Tseng E., **Iorizzo M.** and Van Deynze A. A spinach genome for the next generation of breeders. National Association of Plant Breeders, August 7-10, 2018, Guelph, Ontario, Canada.

23. Ellison A.L., Luby C.H., Corak K., Coe K., Senalik D., **Iorizzo M.**, Goldman I.L., Simon P.W. and Dowson J.C. 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.
24. Corak K., Ellison A.L., Luby C.H., Senalik D., **Iorizzo M.**, Spooner D., Goldman I.L., Simon P.W. and Dowson J.C. 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.
25. Aryal R., Bostan H., Yow A.G., Tseng E., **Iorizzo M.** and Ashrafi H. 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.
26. **Iorizzo M.**, Gallardo R.K., Edger P., Polashock J., Rodriguez-Soana C., Zalapa J., Atucha A., Ashrafi H., Babiker E., Munoz P.R., Bassil N., Lila M.A., Li C., Giongo L., Perkins-Veazie P., Vorsa N. and Finn C. 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.
27. Simon P., Ellison S., Senalik D., Colley M., Dawson J., Tanumihardjo S., Spooner D., Spalding E., Nunez J., Van Deynze A., Sumner D., Roberts P.A., du Toit L., Waters T., **Iorizzo M.**, Matthews W., Lee H. and McKenzie L. 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.
28. Bostan H., Ellison S., Senalik D., Simon P. and **Iorizzo M.** 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.
29. **Iorizzo M.**, Bostan H., Aryal R., Rowland L.J., Zalapa J. and Ashrafi H. Towards Developing a Chromosome Scale Reference Genome Sequence of Blueberry. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
30. Ellison S., Luby C.H., Corak K., Coe K., Senalik D., **Iorizzo M.**, Goldman I.L., Simon P.W. and Dawson J.C. 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.
31. **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.
32. **Iorizzo M.**, Zielinski K., Bostan H., Senalik D., Cavagnaro P., Lila M.A. 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.
33. Covarrubias-Pazaran G., Schlautman B., Diaz-Garcia L., Rodriguez Bonilla L., Deutch J., Grygleski E., **Iorizzo M.**, Polashock J., Vorsa N., Zalapa J. Development of genomic information in American Cranberry. American Society for Horticultural Science annual conference, August 7-11, 2016, Atlanta, GA
34. Simon P., Cavagnaro P., **Iorizzo M.**, Yildiz M., Senalik D., Parsons J. and Ellison S. 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.
35. **Iorizzo M.**, Ellison S., Senalik D., Sarapoomin P., Van Deynze A. and Simon P. The Carrot Genome: A Framework to Study Health-Promoting Metabolite Accumulation. XXIV Plant & Animal Genome, January 9-13, 2015, San Diego, California, USA.



36. **Iorizzo M.**, Senalik D., Ellison S., Cavagnaro P., Cheng S., Zheng P., Zheng Z., Van Deynze A. and Simon P. The building of the first Apiaceae Genome. Plant Animal Genome, San Diego, CA, January 12-15, 2014.
37. **Iorizzo M.** and Simon P. 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.
38. Ellison S., **Iorizzo M.**, Simon P. and Senalik D. 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.
39. Cavagnaro P.F., **Iorizzo M.**, Yildiz M., Senalik D., Parsons J., Willis D.K., Van Deynze A. and Simon P.W. Elucidating the genetic basis underlying anthocyanin pigmentation in carrot. International carrot conference, Madison, WI, August 15-16, 2013, Poster Abstract P07.
40. **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.
41. Satapoomin P., Parsons J., **Iorizzo M.** and Simon P.W. Mapping QTL Associated with Carotene Accumulation in Orange Carrot Roots. International carrot conference, Madison, WI, August 15-16, 2013, Poster Abstract P20.
42. Ali A., Matthews W.C., Cavagnaro P.F., **Iorizzo M.**, Roberts P.A. and Simon P.W. 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.
43. **Iorizzo M.**, Senalik D., Ellison S., Grzebelus D., Cavagnaro P.F., Spooner D., Van Deynze A. and Simon P. 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.
44. Grzebelus D., Baranski R., **Iorizzo M.**, Senalik D., Repinski S., Cavagnaro P., Macko-Podgorni A., Heller-Uszynska L., Kilian A., Nothnagel T., Allender C., Simon P.W. 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.
45. Ellison S., **Iorizzo M.**, Senalik D. and Simon P. 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.
46. Bradeen J.M., Millett B.P., Gao L., **Iorizzo M.** and Carputo D. 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.
47. **Iorizzo M.**, Senalik D., Szklarczyk M., Grzebelus D. and Simon P. De novo Assembly of the Carrot Mitochondrial Genome. Plant and Animal Genome Conference, San Diego, CA, January 14-18, 2012, Poster Abstract P0040.
48. **Iorizzo M.**, Bowman M., Senalik D., Cavagnaro P., Carputo D., Allen V.D. and Simon P. 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.
49. Aversano R., Adamo P., Frsuciante L., **Iorizzo M.**, Quetel C., Zampella M.V. and Carputo D. 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.

50. Miraglia V., Traini A., Bradeen J.M., **Iorizzo M.**, Mann H., Chiusano M.L. and Carputo D. 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.
51. Sacco A., Vitale S., **Iorizzo M.**, D'Agostino N., Di Matteo A., Chiusano M.L. and Barone A. 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.
52. **Iorizzo M.**, Mann H., Carputo D., Chiusano M.L., D'Agostino N. and Bradeen J.M. 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.
53. Miraglia V., **Iorizzo M.**, Villano C., Aversano R., Frusciante L. and Carputo D. 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.
54. Mann H., **Iorizzo M.**, Gao L., D'Agostino N., Chiusano M.L., Carputo D. and Bradeen J.M. 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.
55. **Iorizzo M.**, Mann H., D'Agostino N., Miraglia V., Chiusano M.L., Bradeen J.M. and Carputo D. Comparative structural genomics between incongruent wild potato species. Società Italiana di Genetica Agraria Annual Meeting, Torino, September 16-19, 2009, Poster Abstract 1-17.
56. Vitale S., **Iorizzo M.**, Sacco A., Di Matteo A. and Barone A. 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.
57. Gao L., **Iorizzo M.**, Mann H., Carputo D. and Bradeen J.M. 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.
58. Gao L., **Iorizzo M.**, Mann H., Carputo D., Bradeen J.M. 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.
59. **Iorizzo M.**, Carputo D., Kilian A., Wenzl P. and Bradeen J.M. 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.
60. **Iorizzo M.**, Molloy D.S., Millett B.P., Carputo D. and Bradeen J.M. Assessment of RB gene dosage and expression in transgenic potato. Solanaceae Genome Workshop, Cologne, Germany, October 12-16, 2008, Poster Abstract 346.
61. **Iorizzo M.**, Molloy D.S., Millett B.P., Carputo D., and Bradeen J.M. 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.
62. Millet B.P., **Iorizzo M.**, Molloy D.S. and Bradeen J.M. 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.
63. **Iorizzo M.**, Mann H., Aversano R., Gao L., Carputo D. and Bradeen J.M. Structural genomics resource for exploiting the wild potato gene pool. Solanaceae Genome Workshop, Cologne, Germany, October 12-16, 2008.

64. Simon S., Ellison S., 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.
65. Ellison S., **Iorizzo M.**, Senalik D. and Simon P. 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.
66. Ellison S., **Iorizzo M.**, Senalik D. and Simon P. The Origin of Orange Pigment in Carrot. XXIII Plant & Animal Genome, January 10-14, 2015, San Diego, California, USA.
67. Simon P., **Iorizzo M.**, Senalik D., Ellison S., Cavagnaro P., and Van Deynze A. Status of mapping carrot traits. International carrot conference, Madison, WI, August 15-16, 2013.
68. Ellison S., **Iorizzo M.**, Simon P. and Senalik D. Utilizing genotyping by sequencing to identify candidate genes underlying domestication traits in carrot. International carrot conference, Madison, WI, August 15-16, 2013.
69. **Iorizzo M.**, Senalik D., Ellison S., Grzebelus D., Cavagnaro P., Allender C., Brunet J., Spooner D., Van Deynze A. and Simon P.W. Genetic structure and domestication for carrot (*Daucus carota* subsp. *sativus* L.)(Apiaceae). Botany 2013, New Orleans, July 27-30, 2013.
70. Bradeen J.M., **Iorizzo M.**, Mann H., Gao L., D'Agostino N., Chiusano M.L. and Carputo D. 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.
71. Satapoomin P., **Iorizzo M.** and Simon P. Development and analysis of SSR and SNP markers for a carrot mapping population. 34<sup>th</sup> International Carrot Conference, Kennewick, WA, July 26-28, 2010.
72. Traini A., D'Agostino N., Di Filippo M., **Iorizzo M.**, Aversano R., Mann H., Bradeen J.M., Carputo D. and Chiusano M.L. 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.
73. Carputo D., **Iorizzo M.**, Bradeen J.M., Aversano R., Barone A., Cardi T. and Frusciante L. 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.
74. Mann H., Quirin E.A., Gao L., Aversano R., **Iorizzo M.**, Carputo D. and Bradeen J.M. Resource development for efficient mapping of disease resistance traits in *Solanum*. Centennial Meetign, American Phytopathological Society, St. Paul (Minnesota, USA) July 26-30, 2008.
75. Mollov D., **Iorizzo M.**, Wielgus S., Raasch J., Carputo D., Frusciante L., Austin-Phillips S., Jiang J. and Bradeen J. The transgene *RB* renders foliar late blight susceptible potato cultivars resistant. Potato Association of America Annual Meeting, Idaho Falls, ID, August 12-16, 2007.
76. Carputo D., Di Matteo A., **Iorizzo M.**, Barone A., Frusciante L. 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.
77. Carputo D., Barone A., Caruso I., **Iorizzo M.**, Zoina A., Frusciante L. Fertile *Solanum commersonii-Solanum tuberosum* sexual hybrids as source of resistance to *Ralstonia solanacearum*. Solanaceae Genome Workshop, Madison, WI, July 23-27, 2006.

### Invited presentations

1. **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.

2. **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 69, 2022, Savannah, GA.
3. **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.
4. **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.
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.** Development of a genetic framework to improve the efficiency of bioactive stability and delivery from carrot and blueberry. Webinar: Current status of Phyto-medicines and Nutrigenomics. Organized by the Korean Academy of Science and Technology (KAST), December 15, 2020.
8. **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.
9. **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.
10. **Iorizzo M.**, Lila M.A., Perkins-Veazie P., Pottorff M., Finn C, Vorsa N., Edger P., Bassil N., Munoz P., Zalapa J., Gallardo K.R., Atucha A., Main D., Giongo L., Li C., Polashock J., Sims C., Canales E., DeVetter L., Chagne D., Espley R., Coe 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.
11. Mengist M.F., Grace H.M., Xiong J., Kay. D.C, Bassil N., Hummer K., Ferruzzi M., Lila M.A., **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.
12. **Iorizzo M.**, Bostan H., Curaba J., Ellison S., Senalik D., and P.W. Simon. Improved 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.
13. Zielinski K., Honigs D., Grace M., Mengist M.F., Lila M.A 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.
14. **Iorizzo M.** Breeding Traits in Blueberry. Western Washington Berry Workshop, March 8, 2019, Mount Vernon, OR, USA.
15. **Iorizzo M.**, Bostan B., Aryal R., Xinpeng Q., Mengist M.F., Rowland J. and Ashrafi H. Genome and genomic tools in northern and southern blueberry. Blueberry Europe, conference, November 12-14, 2018, Trento, Italy.
16. **Iorizzo M.** Recent advance in carrot genomics. Carrot and other Apiacea, 2<sup>nd</sup> International Symposium, September 19-22, 2018, Krakow, Poland.
17. **Iorizzo M.** Improving the carrot genome assembly and gene prediction. 39<sup>th</sup> International Carrot Conference, August 21-24, 2018, Madison, Wisconsin, USA.

18. **Iorizzo M.** Towards Developing a Chromosome Scale Reference Genome Sequence of Blueberry. XXVI Plant & Animal Genome, January 13-17, 2018, San Diego, California, USA.
19. **Iorizzo M.**, Zielinski K., Bostan H., Senalik D., Cavagnaro P., Lila M.A. 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.
20. **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.
21. **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.
22. **Iorizzo M.**, Zielinski K., Bostan H., Senalik D., Cavagnaro P., Lila M.A. 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, 2016, San Diego, California, USA.
23. **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.
24. **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.
25. **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.
26. **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.
27. **Iorizzo M.**, Ellison S., Senalik D., Sarapoomin P., Van Deynze A. and Simon P. The Carrot Genome: A Framework to Study Health-Promoting Metabolite Accumulation. XXIV Plant & Animal Genome, January 9-13, 2015, San Diego, California, USA.
28. **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.
29. **Iorizzo M.** Genetic and genomic perspective to increase bioactive compound content in berryfruits. October 6-8, 2015. US-NZ Science Workshop, North Carolina Research Campus.
30. **Iorizzo M.**, Ellison S., Senalik D., Sarapoomin P., Van Deynze A. and Simon P. The Carrot Genome: A Framework to Study Health-Promoting Metabolite Accumulation. XXIV Plant & Animal Genome, January 9-13, 2015, San Diego, California, USA.
31. **Iorizzo M.**, Senalik D., Ellison S., Cavagnaro P., Cheng S., Zheng P., Zheng Z., Van Deynze A. and Simon P. The building of the first Apiaceae Genome. Plant Animal Genome, San Diego, CA, January 12-15, 2014.
32. **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.
33. **Iorizzo M.** and Simon P. 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.
34. **Iorizzo M.**, Mann H., Aversano R., Gao L., Carputo D. and Bradeen J.M. Structural genomics resource for exploiting the wild potato gene pool. Solanaceae Genome Workshop, Cologne, Germany, October 12-16, 2008.

## Seminars

1. **Iorizzo M.** Blueberry genetics and genomics for quality and nutrigenomics traits. University of Wisconsin-Madison, Department of Horticulture, Guest lecture for Hort 121.
2. **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).
3. **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 (virtual seminar).
4. **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. (virtual seminar)
5. **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.
6. **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.
7. **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.
8. **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.
9. **Iorizzo M.** Leveraging genomics to improve specialty crops. October 16, 2015. Department of Bioinformatics and Genomics, UNC Charlotte.
10. **Iorizzo M.** Genomics and computing advances for precision breeding in plants. Department of Crop Science, University of Naples "Federico II". December 4, 2013.
11. ABCDS Group Seminar (UW-Madison, Department of Horticulture). Insight the carrot mitochondrial genome through high-throughput sequences. University of Wisconsin, Madison. March 27, 2013.
12. 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.
13. ABCDS Group Seminar (UW-Madison, Department of Horticulture). Development and characterization of the first carrot EST collection. University of Wisconsin, Madison. March 31, 2011.
14. 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.
15. 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.
16. 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. June 25, 2008.

## Reports

1. VacCAP I Advisory Panel Annual report, November 5, 2021.

2. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, November 2-3, 2021. Organized on-line by North Carolina State University, Raleigh, NC.
3. VacCAP I Advisory Panel Annual report, November 12, 2020.
4. 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.
5. 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.
6. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 23-25, 2018. Washington State University, Mount Vernon, WA.
7. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 24-26, 2017. Penn State, PA.
8. Project report. NCCC-212 “Small Fruit and Viticulture” Report. NCCC-212, October 25-26, 2016. Virginia Tech University, Virginia Beach, VA.
9. Project report. 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.

### **Trade Magazine articles**

- 1) 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/>
- 2) 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).
- 3) Breeding blueberry breeders - New project puts national focus on fruit quality. Dec 29, 2020. <https://www.goodfruit.com/binding-blueberry-breeders/>
- 4) Research Team Seeks to Boost Berry Quality, Jan. 3, 2019.
- 5) Blueberry Survey Seeks Industry Input NC Blueberry Council, Dec. 19, 2016.
- 6) Blueberry survey seeks industry input on breeding needs. Fruit Growers News, March 2017.
- 7) Blueberry and Cranberry Survey Seeks Industry Input. Small Fruits News, Vol. 16, No.4, October 2016.
- 8) Simon P., **Iorizzo M.**, Ellison S., Senalik D., Zeng P., Satapoomin P., Bowman M., Iovene M., Sanseverino W., Cavagnaro P., Yildiz M., Macko-Podgórní 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*.
- 9) Carota, un terzo del suo DNA e' unico, (2016). *Terra e Vita*, 25: 118-119
- 10) Scientists seek industry input on key traits of blueberries cranberries. Chilean Blueberry Committee, Oct. 11, 2016.
- 11) Scientists seek industry input on key traits of blueberries, cranberries. *The Packer*, Oct. 11, 2016.
- 12) Cranberry and Blueberry Survey Seeks Industry Input. *Cranberry Crop Management Journal*, Oct. 9, 2016.

### **Newsletter articles**

1. VacCAP Newsletter #3. August 2021. [Link here](#)
2. VacCAP Newsletter #2. May 2021. [Link here](#)
3. VacCAP. VacCap Newsletter #1, August 25, 2020. [Link here](#)
4. PHHI team lands \$12.8 Million to improve fruit quality of Blueberry and Cranberry. PHHI Web Site, December 3, 2019. [Link here](#)
5. NCSU research team lands \$6.4M federal grant for berry research. WRAL TechWire, December 11, 2019. [Link here](#)

6. US (NC): USDA grant awarded to NCSU for berry research. Horti Daily, December 11, 2019. [Link here](#)
7. NCSU obtiene casi \$ 13 millones para mejora de arándanos. Portal de Campo, December 6, 2019.
8. NCSU obtains almost US \$ 13 million for cranberry improvement. Blueberry Magazine Consulting, December 5, 2019. [Link here](#)
9. \$12.8M grant used to improve fruit quality of blueberry, cranberry. Fruit Grower News, December 5, 2019. [Link here](#)
10. NC State lands \$12.8 million to improve blueberry and cranberry fruit quality. Fresh Plaza, December 5, 2019. [Link here](#)
11. NC State team lands \$12.8 million to improve fruit quality. Salisbury Post, December 4, 2019. [Link here](#)
12. NC State team lands \$12.8 million to improve fruit quality of blueberry and cranberry. Independent Tribune, December 4, 2019. [Link here](#)
13. USDA Grant Awarded to NCSU for Berry Research. North Carolina Biotechnology Center web site, December 10, 2019. [Link here](#)
14. N.C. State genetics scientists awarded \$12.8M to improve blueberries, cranberries. Business North Carolina. December 3, 2019. [Link here](#)
15. NCSU scores nearly \$13 million to improve blueberries and cranberries. Triangle business Journal, December 4, 2019. [Link here](#)
16. The banana as we know it is doomed. Popular Science. August 27, 2019. [Link here](#)
17. Banana challenges: Dole invests in student research for solutions. NC Research Campus, News and Events, August 15, 2017.
18. Leading blueberry and cranberry researchers convene in Kannapolis. Salisbury Post, May 2, 2017. [Link here](#)
19. Blueberry and Cranberry Survey Seeks Industry Input. Plants for Human Health Institute News, Oct. 11, 2016. [Link here](#)
20. Bugs Bunny's Knowledge Confirmed. NC State News, May 18, 2016. [Link here](#)
21. Research at NC State improves the carrot. Technician, August 22, 2016. [Link here](#)