Aria **Dolatabadian**
Crop Genomics and Phytopathology
School of Biological Sciences, The University of Western Australia
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Qualifications

- **PhD in Crop Genomics** 2019

The University of Western Australia, Perth, Australia.
Thesis title: Characterising the role of *Brassica napus* genomic structural variation in disease resistance

- **Master's Degree in Crop Physiology** 2008

Tarbiat Modares University, Tehran, Iran.
Thesis title: Effect of vitamin C foliar application on physiological and morphological traits of grain corn (*Zea mays* L.) under water deficit stress

- **Bachelor's Degree in Agronomy and Plant Breeding** 2010

Azad University, Rasht, Iran.

Awards

- 2022 A Letter of Intent, titled “Canola’s new disease: managing *Verticillium* through genetics, beneficial microbes and understanding interactions”, was approved to secure a research grant with up to $615,250 by the Canola AgriScience Cluster funding program under the Canadian Agricultural Partnership.
- 2018 Awarded a UWA Convocation Postgraduate Research Travel Award to travel to Poland to visit the Institute of Plant Genetics, Polish Academy of Science.
- 2018 Awarded a UWA Graduate Research School Travel Award to travel to France to attend and present at the Brassica 2018 Conference.
- 2014 Awarded a Scholarship for International Research Fees and an International Living Allowance Scholarship (Ad Hoc Postgraduate Research Scholarship) by The University of Western Australia.
- 2012 Awarded a research grant from Iran National Science Foundation
- 2012 Awarded a travel grant to visit the Centre for Integrative Legume Research (CILR) at the University of Queensland, Brisbane, Australia.

Employment

Research Associate: January 2024-now
Batley Lab, School of Biological Sciences, The University of Western Australia, Perth, Australia.

Research Officer: August 2022-January 2024
Batley Lab, School of Biological Sciences, The University of Western Australia, Perth, Australia.

Postdoctoral Research Fellow: February 2021-July 2022.
Department of Plant Science, University of Manitoba, Winnipeg, Canada.

Technical Officer: February 2020-August 2020.
Indian Ocean Marine Research Centre, Department of Primary Industries and Regional Development, Watermans, Australia

Research Assistant: September 2019-February 2020.
Indian Ocean Marine Research Centre, The University of Western Australia, Perth, Australia.

Operations Manager: 2013-2015.
Sooshia Cooperative Company, Tehran, Iran

Teaching and Research Assistant: 2010-2013.
Agronomy Department, Faculty of Agriculture, Tarbiat Modares University, Tehran, Iran

Skills

Genetics and genomics skills

- Whole-genome sequencing and SNP genotyping assay (Illumina, Infinium assay)
- Whole-genome sequencing data analysis
- GWAS analysis
- QTL analysis

Molecular biology skills

- DNA/RNA extraction (Plants, Bacteria, Fungi, Soil)
- DNA library preparation (Illumina)
- PCR, Multiplex PCR, qPCR, and Electrophoresis
- Phenotyping and Genotyping (SNP markers, KASP)

Microbiology and plant pathology skills

- Bacterial and fungal isolation, culture and inoculum preparation and inoculation
- Disease resistance phenotyping and screening
- Spore trapping and counting
- Fungal morphology identification
- *Agrobacterium* and heat-shock transformation

Plant physiology skills

- Microscopic examination, optical microscopes
- Hydroponics systems and plant tissue culture
- Phytochemistry skills
- Spectrophotometer, HPLC, GC-MS,

- Evaluation of antioxidant enzymes activity (Catalase, Peroxidase, Superoxide dismutase)
- Malondialdehyde and peroxidation assay

Plant breeding skills

- Plant phenotyping and genotyping
- Plant population development and germplasm cataloguing
- Crossing: *Arabidopsis*, *Brassica* species (production of introgression lines)

Agronomy skills

- Crop production, organic farming
- Glasshouse experience and familiarity with PC2 and quarantine laboratory procedures

Soil science skills

- Measurement of elements content in soil and plant tissues (N: Kjeldahl method, P: Colorimetric method, K, Ca, Mg and Na: Atomic absorption spectroscopy)

Computer Skills

- Programming language: Python and R
- Biotechnology and Bioinformatics Software: Geneious, CLC, MEGA, Circa, MapChart, LabChip Reviewer
- Statistical Software: SAS
- Image processing program: ImageJ, Python image processing packages
- Microsoft Office Suite
- Website designing

Editorial Board

- Editorial Board Member in Monocytomics
- Editorial Board Member in Seeds, MDPI
- Guest Editor in Biology, MDPI, Special issue "The Plant-Pathogen Interaction."
- Guest Editor in Biology, MDPI, Special issue "Recent Advances in Molecular Genetics of Plant-Microbe Interactions."
- Topic Editor in Frontiers in Agronomy, Disease Management, Frontiers, Research Topics " Modeling and Artificial Intelligence (AI) in Disease Management"
- Guest Associate Editor in Frontiers in Agronomy, Plant-Soil Interactions
- Review Editor in Frontiers in Microbiology, Virology
- Review Editor in Frontiers in Plant Science, Plant-Pathogen Interactions
- Review Editor in Frontiers in Agronomy, Disease Management

Publications

Journal publications

1. Thomas W.J.W, Amas J.C, Huang S, Zhang F, **Dolatabadian A**, Zandberg J.D, Neik T.X, Edwards D, Batley J. (2024). Recent advances in the improvement of genetic resistance against disease in vegetable crops. Plant Physiology. **ACCEPTED**

2. **Dolatabadian A**, Amas J.C, Al-Mamun H.A Edwards D, Batley J. (2024). Exploring Cloned Disease Resistance Gene Homologs (CDRHs) and Resistance Gene Analogs in *Brassica nigra*, *Sinapis arvensis*, and *Sinapis alba*: Identification, Characterisation, Distribution, and Evolution. **READY TO SUBMIT**

3. Moazzamnia E, Rezaei-Chiyaneh E, **Dolatabadian A**, Siddique K.H.M. (2024). Impact of vermicompost, plastic mulch, and straw mulch on physiological traits, seed yield, and linseed oil compounds under supplemental irrigation and rainfed conditions. Agricultural Research. **UNDER REVIEW**

4. Wu T, Al-Mamun H.A, Edwards D, Batley J, **Dolatabadian A**. (2024). Genome-wide identification of the resistance gene analogues (RGAs) and predicting cloned disease resistance gene homologs (CDRHs) in *Hirschfeldia incana*. Agriculture Communications. **UNDER REVIEW**

5. Upadhyaya S.R, Danilevicz M.F, **Dolatabadian A**, Neik T.X, Zhang F, Al-Mamun H.A, Bennamoun M, Batley J, Edwards D. (2024). Genomics-based plant disease resistance prediction using machine learning. Plant Pathology. **UNDER REVIEW**

6. **Dolatabadian A**, Neik T.X, Danilevicz M.F, Upadhyaya S.R, Batley J, Edwards D. (2024). Image-Based Crop Disease Detection using Machine Learning. Plant Pathology. **UNDER REVIEW**

7. Neik T.X, **Dolatabadian A**, Danilevicz M.F, Upadhyaya S.R, Zhang F, Batley J, Edwards D. (2024). Plant Disease Epidemiology in the Age of Artificial Intelligence and Machine Learning. Agriculture Communications. **UNDER REVIEW**

8. Shankar K, Singha S. R, Wangchua L, Phurailatpamb A.K, Shantikumarc L, Mariam Anald PS, Devchandraa N, Hazarikaa BN, **Dolatabadian A**. (2024). Morpho-physiochemical and seed protein profiling of Passiflora species found in the Northeastern Himalayan region of India. The Journal of Horticultural Science and Biotechnology. **UNDER REVIEW**

9. Shankar K, **Dolatabadian A.** (2024). Unraveling metabolomics: investigating sodium chloride stress responses and antioxidant potential in the sweet orange cultivar Pusa sharad grafted on various citrus rootstocks. Plant Stress. **UNDER REVIEW**

10. Rezaei-Chiyaneh E, Mosalman S, Mahdavikia H, **Dolatabadian A**, Siddique K.H.M. (2024). Enhancing rainfed safflower yield, oil content, and fatty acid composition through intercropping with chickpea and stress modifier biostimulants. Frontiers in Agronomy. 6:1389045.

11. Gholamhoseini M and **Dolatabadian A**. (2024). Sesame germination dynamics: unravelling sesame's response to salinity and temperature variability. Seeds 3(1):76-87

12. Jamshidi Jam B, Shekari F, Andalibi B, Fotovat R, Jafarian V, **Dolatabadian A**. (2023). The effects of salicylic acid and silicon on safflower seed yield, oil content, and fatty acids composition under salinity stress. Silicon. 15: 4084-4094.

13. Rezaei-Chiyaneh E, Mahdavikia H, Alipour H, **Dolatabadian A**, Leonardo Battaglia M, Maitra S, Tom Harrison M. (2023). Biostimulants alleviate water deficit stress and enhance essential oil productivity: a case study with savory. Scientific Reports. 13 720.

14. Gasemi S, Mahdavikia H, Rezaei-Chiyaneh E, Banaei-Asl F, **Dolatabadian A**, Sadeghpour A. (2023) Co-inoculation of mycorrhizal fungi and plant growth-promoting rhizobacteria improve growth, biochemical and physiological attributes in Dracocephalum kotschyi Boiss. under water deficit stress. PeerJ, Plant Biology 11: e16474.

15. Shankar K, Awasthi O P, Dubey A K, Singh A, Prakash J, **Dolatabadian A**. (2023). Rootstock mediated alteration in morphology and photosystem in sweet orange (*Citrus sinensis*) scion cv. Pusa Sharad under NaCl stress. Indian Journal of Agricultural Sciences 93 (10): 1103-1107.

16. Vazayefi M, Shekari F, Zangani E, **Dolatabadian A**, Janda T, Mastinu A. (2023). Seed treatment with chlormequat chloride improves the physiological and biochemical characteristics of *Brassica napus* L. under salt stress. Plant Stress 9:1-9.

17. Rezaei-Chiyaneh E, Mahdavikia H, Alipour H, **Dolatabadian A**, Battaglia ML, Maitra S, Harrison MT (2023) Biostimulants alleviate water deficit stress and enhance essential oil productivity: a case study with savory. Scientific Reports 13(720)

18. Jamshidi Jam B, Shekari F, Andalibi B, Fotovat R, Jafarian V, **Dolatabadian A** (2023) The Effects of Salicylic Acid and Silicon on Safflower Seed Yield, Oil Content, and Fatty Acids Composition under Salinity Stress. Silicon 15:4081–4094.

19. **Dolatabadian A**, Yuan Y, Bayer P, Petereit J, Severn-Ellis A, Tirnaz S, Patel D, Edwards D, Batley J (2022) Copy number variation among resistance genes analogues in *Brassica napus*. Genes 13(11), 2037.

20. Sayari M, **Dolatabadian A**, El-Shetihy M, Rehal PK, Daayf F (2022) Genome-Based Analysis of *Verticillium* Polyketide Synthase Gene Clusters. Biology 11(9), 1252.

21. Zamanmirabadi A, Hemmati R, **Dolatabadian A**, Batley J (2022) Genetic structure and phylogenetic relationships of *Leptosphaeria maculans* and *L. biglobosa* in northern regions of Iran. Archives of Phytopathology and Plant Protection. 55(9): 1062-1081.

22. Fernando WGD and **Dolatabadian A** (2022). Microbiome: Diversity, Distribution, and Potential Role in Sustainable Crop Production. Journal of National Science Foundation 50 (Special): 133-152.

23. **Dolatabadian A**, Fernando WGD (2022) Genomic variations and mutational events associated with plant-pathogen interactions. Biology. 1(3), 421.

24. Chen S, Hayward A, Dey SS, Choudhary M, Hmon KPW, Inturrisi FC, **Dolatabadian A**, Neik TX, Yang H, Siddique KHM, Batley J, Cowling WA (2022) Quantitative trait loci for heat stress tolerance in *Brassica rapa* L. Are distributed across the genome and occur in diverse genetic groups, flowering phenologies and morphotypes. Genes. 13, 296.

25. **Dolatabadian A**, Cornelsen J, Huang S, Zou Z, Fernando WGD (2022) Sustainability on the Farm: Breeding for Resistance and Management of Major Canola Diseases in Canada Contributing towards an IPM Approach. Canadian Journal of Plant Pathology. 44: 157-190.

26. Zamanmirabadi A, Hemmati R, **Dolatabadian A**, Batley J (2021) Current progress in studying blackleg disease (*Leptosphaeria maculans* and L. *biglobosa*) of canola in Iran: Where do we stand now? Plant Pathology. 71: 239-250.

27. Zamanmirabadi A, Hemmati R, **Dolatabadian** A, Batley J (2021) Status of SSR, cSSR, iSSR and VNTR motifs from *Leptosphaeria maculans* based on high throughput sequencing data. Mycologia Iranica 8(2)

28. Yang C, **Dolatabadian A**, Fernando WGD (2022) The wonderful world of intrinsic and intricate immunity responses in plants against pathogens. Canadian Journal of Plant Pathology. 44: 1-20.

29. **Dolatabadian A** (2021) Plant-Microbe Interaction. Editorial, Special Issue: Plant-Microbe Interaction. Biology. 10(1),15.

30. Tirnaz S, Bayer P, Inturrisi F, Zhang F, Yang H, **Dolatabadian A**, Neik TX, Severn-Ellis A, Patel D, Ibrahim MI, Pradhan A, Edwards D, Batley J (2020) Resistance gene analogs in the Brassicaceae: Identification, characterisation, distribution, and evolution. Plant Physiology. 184: 909-922.

31. **Dolatabadian A,** Batley J, Edwards D, Barbetti MJ (2020) Virulence/avirulence patterns among *Leptosphaeria maculans* isolates determines expression of qualitative resistance and senescence involving programmed cell death in cotyledons of *Brassica napus*. European Journal of Plant Pathology 156: 1077-1089.

32. **Dolatabadian A,** Bayer P Tirnaz S Hurgobin B Edwards D Batley J (2019) Characterisation of disease resistance genes in the *Brassica napus* pangenome reveals significant structural variation. Plant Biotechnology Journal. 18: 969-982.

33. Gholamhoseini M, **Dolatabadian A**, Habibzadeh F (2019) Ridge-furrow planting system and wheat straw mulching effects on dryland sunflower yield, soil temperature and moisture. Agronomy Journal. 111: 3383-3392.

34. Hurgobin B, Golicz AA, Bayer PE, Chon-Kit KC, Tirnaz S, **Dolatabadian** A, Schiessl SV, Samans B, Montenegro JD, Parkin IAP, Pires JC, Chalhoub B, King GJ, Snowdon R, Batley J, Edwards D (2018) Homoeologous exchange is a major cause of gene presence/absence variation in the amphidiploid *Brassica napus*. Plant Biotechnology Journal. 16: 1265-1274.

35. Etemadi F, Hashemi M, Zandvakili O, **Dolatabadian A,** Sadeghpour A (2018) Nitrogen Contribution from Winterkilled Faba Bean Cover Crop to Spring-Sown Sweet Corn in Conventional and No-Till Systems. Agronomy Journal. 10: 1-8.

36. Hemmati P, Zafari D, Mahmoodi SB, Hashemi M, Gholamhoseini M, **Dolatabadian A,** Ataei R (2018) Histopathology of charcoal rot disease (*Macrophomina phaseolina*) in resistant and susceptible cultivars of soybean. Rhizosphere. 7: 27-34.

37. **Dolatabadian A,** Patel DA, Edwards D, Batley J (2017) Copy number variation and disease resistance in plants. Theoretical and Applied Genetics. 130: 2479-2490.

38. Ahmadi-Rad S, Gholamhoseini M, Ghalavand A, Asgharzadeh A, **Dolatabadian A** (2016) Foliar application of nitrogen-fixing bacteria increases growth and yield of canola grown under different nitrogen regimes. Rhizosphere. 2: 34-37.

39. Manafi E, Modarres Sanavy SAM, Aghaalikhani M, **Dolatabadian A** (2015) Exogenous 5-Aminolevulenic Acid Promotes Antioxidative Defence System, Photosynthesis and Growth in Soybean against Cold Stress. Notulae Scientia Biologicae. 7: 486-494.

40. **Dolatabadian A,** Modarres Sanavy SAM, Ghanati F, Gresshoff PM (2013) *Agrobacterium rhizogenes* transformed soybean roots differ in their nodulation and nitrogen fixation response to genistein and salt stress. World Journal of Microbiology and Biotechnology (Formerly MIRCEN Journal of Applied Microbiology and Biotechnology). 29: 1327-1339.

41. **Dolatabadian A,** Modarres Sanavy SAM, Gholamhoseini M, Khodaei-Joghan A, Majd M, Beyraghdar-Kashkoli A (2013) The role of calcium in improving photosynthesis and related physiological and biochemical attributes of spring wheat subjected to simulated acid rain. Physiology and Molecular Biology of Plants. 19: 189-198.

42. Gholamhoseini M, Ghalavand A, **Dolatabadian A,** Jamshidi E, Khodaei-Joghan A (2013) Effects of arbuscular mycorrhizal inoculation on growth, yield, nutrient uptake and irrigation water productivity of sunflowers grown under drought stress. Agricultural Water Management. 117: 106-114.

43. Gholamhoseini M, Ghalavand A, Khodaei-Joghan A, **Dolatabadian A,** Zakikhani H, Farmanbar E (2013) Zeolite-amended cattle manure effects on sunflower yield, seed quality, water use efficiency and nutrient leaching. Soil and Tillage Research. 126: 193-202.

44. Zakikhani H, Ardakani MR, Rejali F, Gholamhoseini M, Khodaei-Joghan A, **Dolatabadian A** (2012) Influence of Diazotrophic Bacteria on Antioxidant Enzymes and Some Biochemical Characteristics of Soybean Subjected to Water Stress. Journal of Integrative Agriculture. 11: 1828-1835.

45. Gholamhoseini M, AghaAlikhani M, **Dolatabadian A,** Khodaei-Joghan A, Zakikhani H (2012) Decreasing Nitrogen Leaching and Increasing Canola Forage Yield in a Sandy Soil by Application of Natural Zeolite. Agronomy journal. 104:1467-1475.

46. Rahimi-Dehgolan R, Tahmasebi-Sarvestani A, Rezazadeh SA, **Dolatabadian A** (2012) Morphological and Physiological Characters of *Aloe vera* Subjected to Saline Water Irrigation. Journal of Herbs Spices & Medicinal Plants. 18: 222-230.

47. **Dolatabadian A,** Modarres Sanavy SAM, Ghanati F, Gresshoff PM (2012) Morphological and physiological response of soybean treated with the microsymbiont *Bradyrhizobium japonicum* pre-incubated with genistein. South African Journal of Botany. 79: 9-18.

48. Khodaei-Joghan A, Ghalavand A, Aghaalikhani M, Gholamhoseini M, **Dolatabadian A** (2012) How Organic and Chemical Nitrogen Fertilizers, Zeolite, and Combinations Influence Wheat Yield and Grain Mineral Content. Journal of Crop Improvement. 26: 116-129.

49. Mahdavi B, Modarres Sanavy SAM, Aghaalikhani M, Sharifi M, **Dolatabadian A** (2011) Chitosan Improves Osmotic Potential Tolerance in Safflower (*Carthamus tinctorius* L.) Seedlings. Journal of Crop Improvement. 25: 728-741.

50. Aghaalikhani M, Gholamhoseini M, **Dolatabadian A,** Khodaei-Joghan A, Asilan KS (2011). Zeolite influences on nitrate leaching, nitrogen-use efficiency, yield and yield components of canola in sandy soil. Archives of Agronomy and Soil Science. 58: 1-21.

51. **Dolatabadian A,** Modarres Sanavy SAM, Ghanati F (2011) Effect of Salinity on Growth, Xylem Structure and Anatomical Characteristics of Soybean. Notulae Scientia Biologicae. 3: 41-45.

52. Gholamhoseini M, Ghalavand A, **Dolatabadian A,** Jamshidi E, Khodaei-Joghan A (2010) Integrated fertiliser management to attain sunflower sustainable production under different irrigation regimes. Archives of Agronomy and Soil Science. 56: 295-309.

53. Mahdavi B, Modarres Sanavy SAM, Saberali SF, **Dolatabadian A** (2010) Influence of root-zone temperature on growth and nitrogen fixation in three Iranian grasspea landraces. Acta Agriculturae Scandinavica, Section B - Soil & Plant Science. 60: 40-47.

54. Bagheri M, Modarres Sanavy SAM, **Dolatabadian A** (2010) Impact of Inter-Row Spacing on Yield and Yield Components of several Annual Medics Species. Notulae Scientia Biologicae. 2: 116-124.

55. **Dolatabadian A,** Modarres Sanavy SAM, Asilan KS (2010) Effect of Ascorbic Acid Foliar Application on Yield, Yield Component and several Morphological Traits of Grain Corn under Water Deficit Stress Conditions. Notulae Scientia Biologicae. 2: 45-50.

56. Khodaei-Joghan A, Ghalavand A, Aghaalikhani M, Gholamhoseini M, **Dolatabadian A** (2010) Comparison among Different Integrated Nutrition Management for Soil Micro and Macro Elements after Winter Wheat Harvesting and Yield. Notulae Scientia Biologicae. 2: 107-111.

57. Balouchi HR, Modarres Sanavy SAM, Emam Y, **Dolatabadian A** (2009) UV radiation, elevated CO_2 and water stress effect on growth and photosynthetic characteristics in durum wheat. Plant Soil and Environment. 55: 443-453.

58. **Dolatabadian A,** Modarres Sanavy SAM, Sharifi M (2009) Effect of salicylic acid and salt on wheat seed germination. Acta Agriculturae Scandinavica, Section B - Soil & Plant Science. 59: 456-464.

59. **Dolatabadian A,** Saleh-Jouneghani R (2009) Impact of Exogenous Ascorbic Acid on Antioxidant Activity and Some Physiological Traits of Common Bean Subjected to Salinity Stress. Notulae Botanicae Horti Agrobotanici Cluj-Napoca. 37: 165-172.

60. **Dolatabadian A,** Modarres Sanavy SAM, Sharifi A (2009) Alleviation of Water Deficit Stress Effects by Foliar Application of Ascorbic Acid on *Zea mays* L. Journal of Agronomy and Crop Science. 195:347-355.

61. Tohidi-Moghadam HR, Shirani-Rad AH, Nour-Mohammadi G, Habibi D, Modarres-Sanavy SAM, Mashhadi-Akbar-Boojar M, **Dolatabadian A** (2009) Response of six oilseed rape genotypes to water stress and hydrogel application. Pesquisa Agropecuária Tropical. 39: 43-250.

62. Fattahi-Neisiani F, Modarres Sanavy SAM, Ghanati F, **Dolatabadian A** (2009) Effect of Foliar Application of Pyridoxine on Antioxidant Enzyme Activity, Proline Accumulation and Lipid Peroxidation of Maize (*Zea mays* L.) under Water Deficit. Notulae Botanicae Horti Agrobotanici Cluj-Napoca. 37: 116-121.

63. **Dolatabadian A,** Modarres Sanavy SAM (2008) Effect of the Ascorbic Acid, Pyridoxine and Hydrogen Peroxide Treatments on Germination, Catalase Activity, Protein and Malondialdehyde Content of Three Oil Seeds. Notulae Botanicae Horti Agrobotanici Cluj-Napoca 36: 61-66.

64. **Dolatabadian A,** Modarres Sanavy SAM, Chashmi NA (2008) The Effects of Foliar Application of Ascorbic Acid (Vitamin C) on Antioxidant Enzymes Activities, Lipid Peroxidation and Proline Accumulation of Canola (*Brassica napus* L.) under Conditions of Salt Stress. Journal of Agronomy and Crop Science. 194: 206-213.

Conference Proceedings

1. Amas J, Bayer P.E, **Dolatabadian D**, Thomas W.J.W, Edwards D, Batley J. (2024). Advancing disease resistance gene identification in *Brassica* crops using pangenomes. PAG XXXI

2. Amas J, Bayer P.E, Cantila A, **Dolatabadian A**, Thomas W.J.W, Edwards D, Batley J. (2024). Genome-wide identification and evolutionary analysis of disease resistance genes in *Brassica Carinata.* PAG XXXI

3. Sayari M, El-Shetehy M, **Dolatabadian A**, Rehal PK, Daayf F. (2022). Genome comparison revealed the repertoire of polyketide biosynthesis gene clusters in the members of *Verticillium*. Canadian Phytopathological Society (CPS) Manitoba regional meeting, University of Manitoba, Canada.

4. Tirnaz S, Bayer PE, Inturrisi F, Neik TX, Yang H, **Dolatabadian A**, Zhang F, Severn-Ellis A, Patel DA, Pradhan A, Edwards D, Batley J (2020) Genome-wide identification of resistance gene analogs in the Brassicaceae. PAG XXVIII

5. **Dolatabadian A**, Bayer P, Tirnaz S, Hurgobin B, Edwards D, Batley J (2019) Characterisation of Resistance Genes in the *Brassica napus* Pangenome. PAG XXVII.

6. Scheben A, Bayer P, **Dolatabadian A**, Golicz A, Hurgobin B, Tirnaz S, Chan KC, Edwards D, Batley J (2019) *Brassica* Pangenomes as a Novel Source of Disease Resistance Genes. PAG XXVII.

7. Inturrisi FC, Tirnaz S, Bayer P, Neik TX, Yang H, **Dolatabadian A**, Zhang F, Severn-Ellis A, Patel DA, Pradhan A, Lee HT, Edwards D, Batley J (2018) Genome-Wide Analysis of NBS-LRR Genes in the Brassicaceae and Applications for Breeding. PAG XXVI.

8. **Dolatabadian A**, Hurgobin B, Bayer P, Edwards D, Batley J (2018) Characterisation of disease resistance genes in the *Brassica napus* pangenome. Brassica 2018, St-Malo, France.

9. **Dolatabadian A**, Bayer P, Edwards D, Batley J (2018) Characterisation and genetic mapping of resistance genes in the *Brassica napus* pangenome. The Integrative Plant Biology Conference IPG PAS, Poznan, Poland.

10. **Dolatabadian A**, Batley J, Edwards D, Barbetti M, Hurgobin B, Bayer P (2016) Association of Copy Number Variation with Qualitative and Quantitative Resistance against *Leptosphaeria maculans* in *Brassica napus*. Brassica 2016, Melbourne, Australia.

11. Chen S, Hayward A, Witt Hmon KP, Dey SS, Inturrisi FC, **Dolatabadian A**, Neik TX, Yang H, Nelson MN, Turner NC, Siddique KHM, Cowling WA, Batley J (2016) Genome-wide association analyses provide genomic insights into natural variation in heat tolerance of *Brassica rapa*. Brassica 2016, Melbourne, Australia.

12. Batley J, **Dolatabadian A**, Yang H, Severn-Ellis A, Alamery S, Tollenaere R, Bayer P, Hurgobin B, Golicz A, Edwards D (2016) The More the Merrier? Investigating Copy Number Variation in *Brassica* Disease Resistance. PAG ASIA.

13. **Dolatabadian A**, Modarres Sanavy SAM, Ghanati F, Gresshoff PM (2012) Nodulation and Nitrogen Fixation of Transformed Soybean Hairy Roots by *Agrobacterium rhizogenes* Affected by Genistein and Salt Stress. VIPCA; Austria.

14. **Dolatabadian A**, Modarres Sanavy SAM, Ghanati F, Gresshoff PM (2011) Effects of Genistein on Nodulation, Nitrogen Fixation and Physiological Attributes of Soybean under Salt Stress. TROPENTAG; Germany, 2011.

Book chapter

1. **Dolatabadian A**, Yang H, Batley J. (2018) Case Study for Trait-Related Gene Evolution: Disease Resistance Genes in *Brassica napus*. In: The *Brassica napus* genome (Ed Shengyi Liu, Rod Snowdon and Boulos Chalhoub) Springer (India) pp 223-232.

2. Arutselvan R, Pati K, **Dolatabadian A**, Dutta SK. (2023). Citrus Diseases and Management. In: Recent Advances in Citrus Fruits (Ed Sukhvinder Singh Purewal, Sneh Punia Bangar, Pinderpal Kaur) Springer pp 501–526.

Referees

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