

Dariusz Grzebelus, Professor

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Research interests: crop genomics, mobile genetic elements in plant genomes and their relevance to the structure and function of host genomes with special emphasis on traits related to domestication, genetic determinants of crop plant tolerance to abiotic stresses, development of molecular tools to assist in breeding new varieties of agricultural and horticultural plants. In particular, he has been investigating transposable elements in the genome of carrot and other plant species, and their importance to the host. Also, he has been working on the biodiversity of wild and cultivated carrot populations, with a particular focus on genetic determinants of traits related to domestication, including carotenoid accumulation, storage root development and vernalization, using multi-omics-based approaches.