

Nicolas Langlade

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I started my career in Switzerland with Enrico Martinoia (PhD at University of Neuchatel) and then in the United-Kingdom with Enrico Coen (John Innes Centre, Norwich) working on the genetic basis of physiological and developmental adaptations of plants to their environment and evolutionary forces. I joined the INRA in 2006 as a post-doc in the laboratory of plant reproduction and development with Peter Rogowsky (Ecole Normale Supérieure, Lyon) where I briefly worked on maize kernel development.

I moved to the LIPM (INRA Toulouse) in 2007 as senior researcher, where I am developing a research program aiming at identifying the molecular and genetic basis of sunflower adaptation to abiotic stresses (i.e. mainly drought). I participated in 33 articles on sunflower including the description of the first high-quality sunflower genome sequence, the first genomic selection analysis, the first high-throughput phenotyping platform usage on sunflower and many articles on the genetic and genomic control of drought tolerance in sunflower.

I was and still am strongly involved in setting up infrastructures aimed to sunflower research such as phenotyping platforms. Furthermore, I develop genetic populations and genomic resources for our community. This constitutes as prerequisite to my research activities that I construct as a joined public and private research effort.