



CURRICULUM VITAE Form

For the website (1 to 2 pages max)

NAME / First name: PARIS Clemence

Nationality: French

Date of birth (dd/mm/yyyy): 18/12/1985

Title and present occupations: Genetic Project Lead for Sunflower

Professional address:

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Main field of activity and interest in relation to Sunflower:

- Good knowledge of breeding and Mendelian genetics (genetic gain theory, genetic models, simulation and experimental designs, BLUPs)
- Good knowledge and experience with statistical tools and methods involved in genetic information applications (genetic and QTL mapping, GWAS, MAS, GS and genetic diversity analysis)
- Good understanding of plant pathology principles
- Thorough understanding of genotyping systems, in particular SNPs
- Good organization, communication, analytical and computer skills
- Good interpersonal skills, required to work with crossfunctional, crosscultural and multilocation teams

Professional experiences:

Syngenta seeds Genetic project lead assistant for sunflower Since April 2018

- Deployment of genetic technologies, the generation of readily applicable trait specific information and the application of genetic information through innovative breeding approaches to improve the performance of Syngenta's germplasm
- Lead in germplasm development projects, together with product development scientists
- Lead in trait development projects, together with the Biology Research teams (Genetics, Bioinformatics, Molecular analytics,...) and any other relevant groups
- Ensure, for all projects, appropriate technical and business project reviews, as well as portfolio consolidation (including budget and planning insights)
- Ensure, with other Genetic Project Leads and similar functions across the company (other crops, other regions), availability and use of most useful and efficient information, tools, protocols and methodologies for molecular breeding
- International team leader

Syngenta seeds Genetic project lead assistant for sunflower April 2014 to April 2018

- Discovery, validation and implementation of Marker-Trait Associations (MTAs) for various traits in the sunflower breeding program
- Involvement in genomic selection and trait introgression strategy and deployment
- Design of downy mildew and wild program strategy
- Analysis of data (genotypic, phenotypic, environmental data, etc.) and use of dedicated tools (internal and external) FADA, PASTIS, Backcross application, DarWIN, DAPC, TASSEL, PLINK, R
- Strong connections with breeding team through several fields visits and notations in France, Spain, Romania and Ukraine, and recurrent meetings
- Interactions with others GPL teams, Seed Research teams (Genetics, Molecular Analytics, Bioinformatics), and the different platform members (genotyping labs and greenhouses)

Syngenta seeds Genotyping Projects coordinator Sept 2009 to April 2014

- Crop referent for sunflower
- Project coordination and planification for the genotyping platform

Nestlé R&D Center Internship

- Genetic mapping and QTL discovery for *Coffea arabica*

- Used of molecular technologies: Screening of SSR bank, Multiplex PCR, HRM, cloning, sequencing

Imperial Tobacco Group / Tobacco Institute Internship

- Set up marker-assisted pipeline to convert elite tobacco varieties with mutations of interest
- Optimization of backcross schema

Syngenta seeds Sunflower breeding technician

- Based in nursery and experimental hybrid locations
- Participation to the crossing program: Selfing, backcross, emasculation in crossing block
- Participation to the harvest activities: seeds cleaning and processing, counter season coordination

Education:

2005-2009 : Master degree (MSc) in plant biotechnologies - Paul Sabatier University, Toulouse III

2003 – 2005 : BTSA Biological and Biological Agricultural Analyzes - Toulouse - Auzeville

Languages: French : Mother tong / English: Fluent / Spanish: beginner, willing to progress

Selected publications:

Duriez, P., Vautrin, S., Auriac, M. *et al.* A receptor-like kinase enhances sunflower resistance to *Orobanche cumana*. *Nat. Plants* **5**, 1211–1215 (2019) doi:10.1038/s41477-019-0556-z

I accept to receive the ISA newsletter and I accept that the ISA keeps my e-mail address for receiving information regarding ISA activities.

Date and Signature

17/12/2019

Clémence Paris

Send to: contact@isasunflower.org