

# Modern breeding techniques for potato improvement

Monday June 10<sup>th</sup> – Friday June 29<sup>th</sup> 2019

## Program

### Venue:

IPBO, Technologiepark 122, 9052 Gent-Zwijnaarde

With the support of:



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THE BELGIAN  
DEVELOPMENT COOPERATION



MARG & NORA  
VAN MONTAGU  
FUND

## Week 1:

Monday June 10 <sup>th</sup> , 2019		Venue: AA Tower – First floor
Arrival of the participants		
Tuesday June 11 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 10:30	Administrative opening of the training course Overview of the course objectives + Introduction to the group work that has to be prepared and presented on the last day of this course	IPBO team
10:30 – 11:00	Coffee break	
11:00 – 13:00	Course attendee presentations	
13:00 – 14:00	Lunch	
14:00 – 15:30	Basic concepts and nomenclature in potato breeding (part I)	Prof. Geert Haesaert
15:30 – 16:00	Coffee break	
16:00 – 17:30	Basic concepts and nomenclature in potato breeding (part II)	Prof. Geert Haesaert
Wednesday June 12 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 10:30	Basic concepts in plant biotechnology	Prof. Godelieve Gheysen
10:30 – 11:00	Coffee break	
11:00 – 13:00	Genetic transformation of potato	Prof. Godelieve Gheysen and Dr. Marc Ghislain
13:00 – 14:00	Lunch	
14:00 – 15:30	New breeding techniques	VIB-PSB speaker
15:30 – 16:00	Coffee break	
16:00 – 17:30	Gene editing for potato amelioration	Tba
Thursday June 13 <sup>th</sup> , 2019		FSVM building
09:00 – 20:00	Seed potato workshop	Solynta, WUR, Groningen, UGent
Friday June 14 <sup>th</sup> , 2019		FSVM building
09:00 – 17:00	Seed potato workshop	Solynta, WUR, Groningen, UGent

## Week 2:

Monday June 17 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 10:30	Molecular markers for breeding	tba
10:30 – 11:00	Coffee break	
11:00 – 13:00	Molecular markers for breeding	tba
13:00 – 14:00	Lunch	
14:00 – 15:30	Genomic selection in plant breeding	tba
15:30 – 16:00	Coffee break	
16:00 – 17:30	Genomic selection in plant breeding	tba

Tuesday June 18 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 10:30	GWAS for agronomic traits	tba
10:30 – 11:00	Coffee break	
11:00 – 13:00	GWAS for agronomic traits	tba
13:00 – 14:00	Lunch	
14:00 – 17:30	Visit potato processing company Agristo	tbc

Wednesday June 19 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 10:30	Phytophthora infestans: a serious threat for potato production	tba
10:30 – 11:00	Coffee break	
11:00 – 13:00	Biotic stress (PVY, PLRV, and Bacterial wilt,	tba
13:00 – 14:00	Lunch	
13:00 – 14:00	Biotic stress (nematodes)	
14:00 – 15:30	Abiotic stresses (drought and heat tolerance)	tba
15:30 – 16:00	Coffee break	
16:00 – 17:30	IPM	tba

Thursday June 20 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 11:00	Global regulatory developments of GMO	Dr. Patrick Rüdelsheim
11:00 – 11:30	Coffee break	
11:30 – 13:00	Regulatory status for crop improvement in Africa	Dr. Barbara Zawedde
13:00 – 14:00	Lunch	
14:00 – 15:30	General aspects of GM crop safety assessment	Dr. Patrick Rüdelsheim
15:30 – 16:00	Coffee break	
16:00 – 17:30	Problem formulation	Dr. Patrick Rüdelsheim

Friday June 21 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 13:00	Study design and data collection	Dr. Patrick Rüdelsheim
13:00 – 14:00	Lunch	
14:00 – 17:30	Decision making and management	Dr. Patrick Rüdelsheim

### Week 3:

Monday June 24 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 10:00	2011: potato field trial in Flanders: Overview	Dr. Bart Van Droogenbroeck tbc
10:00 – 10:30	Coffee break	
10:30 – 11:30	The Bintje plus project	Dr René Custers tbc
11:30 – 12:30	Generating Phytophthora infestans resistant varieties for Africa (including field trial results)	Dr.Marc Ghislain
12:30 – 13:30	Lunch	
13:30 - 17:00	Visit to a potato field trial Or potato farmer	Geert Haesaert

Tuesday June 25 <sup>th</sup> , 2019		Venue: IPBO
09:00 – 10:30	GMO perception in Europe and worldwide	Prof. Godelieve Gheysen
10:30 – 11:00	Coffee break	
11:00 – 12:30	Ethical considerations coming with the use of modern biotechnology tools for variety creation	tba
12:30 – 13:30	Lunch	
13:30– 15:00	Technology adoption: intuition and/or rationale thinking	tba
15:00 – 15:30	Coffee break	
15:30– 15:30	The science of science communication	tba
16:30 – 17:30	Experience of communicating biotechnology to different stakeholders in Africa	tba

Wednesday June 26 <sup>th</sup> , 2019		Venue: AA Tower – First floor
09:00 – 13:00	Design and analysis of field experiments (part I) (bioinformatics)	Dr. Marnik Vuylsteke (Gnomixx)
13:00 – 14:00	Lunch	
14:00 - 17:00	Design and analysis of field experiments (part II) (bioinformatics)	Dr. Marnik Vuylsteke (Gnomixx)

Thursday June 27 <sup>th</sup> , 2019		Venue: IPBO
09:00 – 17:00	Principles of effective communication Understanding audiences Message mapping, story telling How to handle a media interview Developing a communication strategy	tba

Friday June 28 <sup>th</sup> , 2019		Venue: IPBO
09:00 – 10:30	Presentation of the group work (part I)	
10:30 – 11:00	Coffee break	
11:00 – 13:00	Presentation of the group work (part II)	
13:00 – 14:00	Lunch	
14:00 – 15:30	Evaluation of the participants	
15:30 – 16:00	Evaluation of the course by the participants	
16:00	Certificate delivery and reception	