



Meet the fascinating world of green genetics

A Summer School for Academic and Professional Bachelor students

Monday August 24th - Friday August 28th 2009

Wageningen, The Netherlands



WAGENINGEN UNIVERSITY

WAGENINGEN UR

An innovative world

The sector "Flowers & Food" has been designated as one of the key sectors for innovation in the Dutch economy. It covers horticulture, food production and plant breeding (green genetics).

Plant breeding focuses on the production of new varieties in crop plants. New varieties with improved traits like taste, health promoting ingredients, yield, resistance to diseases, resistance to stress conditions, etc. These varieties are the basis for sustainable production of healthy food, food ingredients and non-food products worldwide.

More and more, innovative techniques are included in breeding programs: molecular breeding, genomics, DNA sequencing, gene technology. The level of plant science research in The Netherlands is excellent when measured along international standards.

The Dutch plant breeding and propagation industry is an innovative and knowledge intensive industrial branch which has a leading position in the world. Graduates with an education in plant sciences or breeding can start a blooming career in this sector, with many challenges to develop themselves professionally and personally.



Is this a world you want to explore?

Then we invite you to participate in this Summer School.

You will:

- learn about the basic topics in plant breeding;
- hear about new promising technologies;
- visit research facilities and laboratories;
- be the special guest of world wide leading breeding companies.

You are:

- A 2nd year Academic Bachelor student in biology, plant science, agronomy, or a related field.
- A 3rd year Professional Bachelor student (HBO/ Fachhochschule/ Polytechnic) in agronomy, horticulture, biotechnology, laboratory techniques, applied biology.

Basic knowledge

A basic knowledge of genetics, statistics, molecular biology, and plant physiology is required. A good understanding of the English language is also necessary.

Credits

After completing the whole program, students will be awarded 2 ECTS.

This Summer School is sponsored by the **Technological Top Institute Green Genetics**. The mission of **TTI GG** is strengthening the knowledge base of the Dutch plant breeding and propagation industry. Through closer cooperation with research and education institutions, the sector seeks to improve the knowledge infrastructure and promote capacity building.



This Summer School is also sponsored by:



Program Summer School Green Genetics 2009

Monday August 24	Wageningen	Morning	Arrival & Welcome Lectures: Plant Breeding - state of the art <ul style="list-style-type: none"> • History and impact of plant breeding • Plant genetic resources • Plant reproduction systems
	Wolfheze	Afternoon	Excursion to Barenbrug Visit to the breeding and selection fields
Tuesday August 25	Wageningen	Morning	Lectures: From genotype to variety <ul style="list-style-type: none"> • Breeding and selection methods • Seed production and technology • Intellectual property and breeders' rights
	Wageningen	Afternoon	Excursion to Seminis Open field vegetables, breeding for resistance
Wednesday August 26	Wageningen	Morning	Lectures: Technological developments in breeding <ul style="list-style-type: none"> • Genetically modified organisms (GMO's) • Marker assisted breeding • Genomics and breeding
	Wageningen	Morning	Excursion to Keygene Sequence-based breeding in practice: Novel technologies and IP protection.
Thursday August 27	Enkhuizen		All day excursion to Seed Valley
		Morning	Introduction to Seed Valley & Visit to Enza Zaden Greenhouse vegetables, molecular research Breeding of organic seeds Network lunch with Seed Valley companies
		Afternoon	Visit to Incotec Seed technology & diagnostics
Friday August 28	Roelofarendsveen	Morning	Excursion to Naktuinbouw Quality in propagation material
	Rijsenhout	Afternoon	Excursion to Royal van Zanten Breeding of ornamental crops

Practical information

The Summer School is organized by Wageningen Business School and Wageningen UR Plant Breeding, both part of Wageningen University and Research Center. The program includes lectures, located at Wageningen University Campus, and excursions. Transportation will be arranged to all excursions, with Wageningen as a starting point.

Costs

The Summer School is sponsored by the Technological Top Institute Green Genetics, and contributions made by the hosting companies. This includes all lectures and excursions, transportation to excursions, lunches and refreshments. Costs for students travelling to Wageningen and – if necessary – hotel accommodation are not included. Wageningen Business School can provide assistance in booking accommodation.



www.wbs.wur.nl

Registration

Registration is possible until July 1st and will be limited to a maximum of 30 participants. Please send your name, a CV, and a short motivation letter to info.wbs@wur.nl

More information

For more information you can contact
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Wageningen UR contributes fundamentally to the quality of life by a combination of research and education in the field of life sciences.