



SEMINAR

The New Breeding Techniques Scientific, Technical, Social and Legal Aspects

12 December 2016 . Oeiras

Auditorium | ITQB NOVA

Instituto de Tecnologia Química e Biológica António Xavier

In Portuguese and in English | Simultaneous translation available

AIM

To launch and deepen the debate on the use of New Breeding Techniques (NBTs) in Portugal, which will undoubtedly be very important for crop improvement and are already being implemented by many companies and research centers.

To envisage the Portuguese position regarding NBTs adoption as tools to the development of new crop varieties.

PROGRAM

9h45 – Registration

10h00 – **Opening session**

10h10 – **What are NBTs?** (in Portuguese)

| **Pedro Fevereiro** - President of CiB – Centre for Biotechnology Information

10h50 – **Scientific and application aspects of NBTs** (in English)

| **Wendy Harwood** - Senior Scientist at the Crop Genetics Department (Crop Transformation Group) of John Innes Centre, Norwich, England.

11h30 – **Coffee-break**

11h45 – **Legal and social framework of NBTs** (in English)

| **Joachim Schiemann** - Director of the Institute for Biosafety in Plant Biotechnology at the Julius Kuehn Institute (JKI), Federal Research Centre for Cultivated Plants, Germany.

12h25 – **The Portuguese case (to be confirmed)**

13h10 – **Lunch**

15h00 – **Stakeholders roundtable | Use or not to use NBTs: how should Portugal react?**

| **Europabio** The European Association for Bioindustries, represented by Beat Späth

| **ANSEME** - National Association of Seed Producers and Traders represented by Joana Aleixo

| **FIPA** - Federation of Portuguese Food Industries represented by Jaime Piçarra

| **IACA** - National Association of Feed Industries represented by Jaime Piçarra

| **ANPROMIS** – National Association of Maize and Sorghum Producers represented by Tiago Silva Pinto

| **ANPOC** – National Association of Cereals, Oilseeds and Protein crops represented by Bernardo Albino

17h30 – **Closing remarks**

NEW BREEDING TECHNIQUES

New Breeding Techniques (NBTs) are a set of methodologies that allow changing the characteristics of agricultural varieties in a molecularly accurate way, to increase their productivity and tolerance to environmental factors.

NBTs are eight and include: Nucleases directed to a specific site; Interference RNA (RNAi); Directed mutagenesis for specific oligonucleotides; Agro-infiltration; Cisgenesis; Grafting on modified rootstock; Reverse improvement; and RNA-directed methylation of DNA.

This set of techniques has been developed to fine-tune characteristics of the agricultural varieties. As examples, interfering RNA has allowed the development of varieties resistant to different viruses, such as the introduction of resistance to the golden mosaic virus in beans, and Cisgenesis has allowed, in a few years, to obtain a durable resistance to late blight in potatoes.

The European Community is presently discussing the adoption of these technologies and in which legal frame should their products be evaluated.

REGISTRATION

The registration is free, but required by e-mail to: geral@cibpt.org
Please send us the following information: Name, E-mail, Mobile Phone and Institution.

LOCATION and MAPS

Address: ITQB NOVA - Av. da República - 2780-157 Oeiras - Portugal

GPS: 38° 41' 38" (38.694 N) | 9° 19' 7" (-9.318 W)

Instructions: http://www.itqb.unl.pt/contacts/itqb_location

ORGANIZATION



CiB – Centro de Informação de Biotecnologia
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