

Course on Orphan Crops: Plant Breeding in Developing Countries

Blockveranstaltung, 5 ECTS, 10. - 21. 9. 2007



Part I. Selected Topics on Genetics, Breeding and Evolution of Orphan Crops

Lectures given by **Prof. Nagib Nassar**, Universidade de Brasília, Brazil

Dates: 10-18 September 2007

Place: Institute of Plant Sciences, Altenbergrain 21, 3013 Bern

Contents of the lectures:

- History of the genetic resources movement
- Centers of diversity and centers of origin
- Conservation: aims, methods and dynamics
- Manipulation of plant genetic resources by interspecific hybridization: breaking barriers, restoring fertility by polyploidization
- Apomixis: advantages, anatomic basis, genetic control, selection and development
- Origin of agriculture: theories of Anderson, Childe, Binford, and Sauer
- Classification of cultivated plants: genetic concept of species, gene pool system for crop classification
- The dynamics of domestication: selection associated with seedling and harvest, differentiation- and hybridization cycles

Part II. Conference on 'New Approaches to Plant Breeding of Orphan Crops in Africa'

Dates: 19-21 September 2007

Place: Exakte Wissenschaften, Sidlerstrasse 5, 3012 Bern

Key speakers include:

- Prof. Rebecca J. Nelson, Cornell University, Ithaca, USA
- Prof. Jeff Bennetzen, University of Georgia, Athens, USA
- Prof. Felix Dakora, CTECH, Cape Town, South Africa
- Prof. Katrien Devos, University of Georgia, Athens, USA
- Dr. Hailu Teferra, IAR, Ethiopia
- Prof. Nagib Nassar, Universidade de Brasília, Brazil
- Dr. Shiv Kumar, Indian Institute of Pulses Research, India
- Prof. Ingo Potrykus, Golden Rice Board, Switzerland
- Prof. B.B. Singh, G.B. Pant University, India
- Dr. Alberto Mauer, Keygene N.V., The Netherlands
- Dr. Brad Till, Seattle TILLING Project, USA
- Dr. Andrzej Kilian, Diversity Arrays Technology, Australia.
- Prof. Roberto Tuberosa, University of Bologna, Italy
- Prof. Henk Schouten, Wageningen University, Netherlands
- Dr. Christof Sautter, ETH Zürich, Switzerland
- Dr. Peng Zhang, ETH Zürich, Switzerland
- Prof. Fernand Lambein, IPBO, Gent, Belgium
- Dr. Dan Kiambi, ICRISAT-Nairobi, Kenya
- Dr. Bridget Crampton, CSIR, South Africa
- Dr. Philipp Aerni, ETH Zürich, Switzerland
- Dr. Angelika Hilbeck, ETH Zürich, Switzerland
- Dr. Irmgard Hoeschle-Zeledon, GFU, Italy

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