

UNIVERSITÄT HOHENHEIM

INSTITUTE FOR ANIMAL PRODUCTION  
IN THE TROPICS AND SUBTROPICS

Prof. Dr. Anne Valle Zárate



## Certificate of Participation

**Mr. Ossama DIMASSI**

has participated in a five day course on

### **Biodiversity and Conservation of Farm Animal Genetic Resources**

an intensive course on methodological and organisational aspects of description, management, and conservation of biodiversity in farm animals

Held: November 13th to 17th, 2000, at University of Hohenheim, Stuttgart/Germany

By: PD Dr. Henner Simianer University of Hohenheim and Applied Genetics Network, Stuttgart

In co-operation with: Prof. Dr. Anne Valle Zárate University of Hohenheim  
Prof. Dr. Leo Dempfle Technical University of Munich, Freising-Weihenstephan

#### The course was organised in:

- **Lectures:** Introducing the major concepts and methods to describe and monitor biodiversity,
- **Exercises:** Familiarising with the presented mathematical and statistical methods,
- **Excursion:** Visit in-situ conservation activities for endangered farm animal breeds in Southwest Germany and to learn about the respective conservation strategies,
- **Discussions:** Different aspects of conservation activities in developed and developing countries.

#### Topics covered in detail:

1. Population genetics in small populations:  
Inbreeding, genetic drift, effective population size.
2. Approaches to quantification of biodiversity:  
Genetic markers and allele frequencies, genetic distances and various distance measures, distance matrices, constructing phylogenetic trees, the Weitzman concept of diversity.
3. Conservation strategies:  
In vivo and in vitro concepts, factors affecting the effective population size, minimising the increase of inbreeding.
4. Case studies of conservation programmes:  
The I-pig conservation programme in Vietnam,  
Conservation of trypanotolerant cattle and small ruminants in West Africa,  
Conservation of endangered pig breed and cattle breeds in Southwest Germany.

Hohenheim, November 17<sup>th</sup>, 2000

A handwritten signature in black ink, appearing to read 'H. Simianer', written over a horizontal line.

PD Dr. Henner Simianer

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