

# **EMBO Workshop on “Molecular Biodiversity and DNA Barcode”**

Accademia Nazionale dei Lincei - Via della Lungara, 230  
Rome (Italy), 17 - 19 May 2007

**Thursday May 17, 2007**

10:45 – 11:30 - *Introductory remarks*

**Cecilia Saccone (Università di Bari, CNR)**

**Maurizio Brunori (Accademia dei Lincei)**

**Giantommaso Scarascia Mugnozza (Accademia Nazionale delle Scienze detta dei XL)**

**Giuseppe Martini (CNR)**

**Luigi Di Pace (IBM)**

## **Session 1 - Genome Biodiversity, Evolutionary Genomics and Metagenomics**

11:30 – 12:00 - *The variability of the mitochondrial genome at the inter- intra species level in mammals*

**Cecilia Saccone**

12:00 -12:30 - *Comparative metagenomics*

**Peer Bork**

12:30 – 13:00 - *Microbial Population Structure of the World's Oceans: an underexplored "rare biosphere"*

**Michael Sogin**

13:00 – 14:30 Lunch Buffet

14:30 – 15:30 Poster Session

## **Session 2 – Species concept and DNA barcode**

15:30 -16:00 – *DNA BARCODING AND THE CONSORTIUM FOR THE BARCODE OF LIFE*

**Scott E. Miller**

16:00 – 16:30 - *Delimitation of taxa, taxonomic identification and molecular characters*

**Simon Tillier**

16:30 – 17.00 - *Placing barcodes with precision against the Catalogue of Life*

**Frank Bisby**

17:00 – 17:30 Coffee Break

17:30 – 18:00 - *DNA barcoding and the biological species concept: exploring operational solutions*

**Valerio Sbordoni**

18:00 – 18:30 - *Probing Biodiversity and Evolutionary Processes Through DNA Barcoding*

**Paul Hebert**

18:30 – 19:00 - *Searching for a DNA barcode for land plants*

**Robyn Cowan**

19:00 – 19:30 - *Mosquito Barcoding Initiative*

**Yvonne-Marie Linton**

**Friday May 18, 2007**

**Session 3 - Molecular Biodiversity in different lineages**

9:30 – 10:00 - *Evolutionary Mitogenomics: one ring to divide them all*  
**Graziano Pesole**

10:00 – 10:30 - *Challenges in DNA barcoding of Angiosperms: reticulate evolution, glacial refugia and adaptive radiations*  
**Javier Fuertes Aguilar**

10:30 – 11:00 - *Molecular biodiversity of the reptiles and amphibian around the westernmost Mediterranean Basin*  
**Salvador Carranza**

11:00 – 11:30 Coffee Break

11:30 – 12:00 - *The Molecular Biodiversity of Protists*  
**Sandie Baldauf**

12:00 – 12:30 - *Barcoding, metagenomics, and inventorying Earth's species: systematic method should frame our strategy*  
**Joel L. Cracraft**

12:30 – 13:00 - *Incorporation of DNA barcodes into assessments of the biological integrity of aquatic ecosystems: precision, accuracy, and cost*  
**Mark Bagley**

13:00 – 14:30 Lunch Buffet

14:30 – 15:30 Poster Session

15:30 – 16:00 - *What do we mean when we talk about the evolutionary history of prokaryotes?*  
**James O. McInerney**

**Session 4 - Biodiversity databanks and methodologies**

16:00 – 16:30 - *Connecting Sequences, Voucher Specimens and Valid Taxonomic Names*  
**David Schindel**

16:30 – 17:00 - *The INSDC reserved keyword BARCODE: a new tool for cataloging molecular biodiversity*  
**Robert Hanner**

17:00 – 17:30 Coffe Break

17:30 -18:00 - *WASABI: A data processing pipeline for an evolutionary understanding of molecular biodiversity and phylogenetic inference of biological functions*

**François Lutzoni**

18:00 – 18:30 - *What is the molecular signature of speciation events ?*

**Michel Veuille**

18:30 – 19:00 - *Applications of the Chinese Restaurant process in phylogenetics*

**John Huelsenbeck**

19:00 – 19:30 - *Optimising DNA barcode region selection*

**Freek T. Bakker**

21:00 Social Dinner

**Saturday May 19, 2007**

**Session 5 - Molecular Biodiversity in Biotechnology**

9:00 – 9:30 - *The effects of species management on molecular biodiversity*

**Giorgio Bertorelle**

9:30 – 10:00 - *Tephritid Barcoding Initiative*

**Bruce McPheron**

10:00 – 10:30 - *"Barcode" Identification of Ciliates*

**Brunk Clifford**

10:30 – 11:00 Coffee Break

11:00 – 11:30 - *Comparison of two geographically remote bacterial populations reveals global dispersal and local predation pressures*

**Victor Kunin**

11:30 – 12:00 - *What we do not know might hurt us: Use of DNA barcodes in conservation, epidemiology, and invasion biology.*

**Gisella Caccone**

12:00 – 12:30 - *Amplicon sequencing analysis using Genome Sequencer FLX System - Potential application in genome variability*

**Katia Accorsi**

12:30 – 13:30 – *General Discussion*

13:30 Lunch Buffet