



Dottorato in Genetica, Biologia Molecolare e Cellulare

Scuola di Dottorato in Scienze della Vita "Camillo Golgi" - Università degli Studi di Pavia

## Corso "Evoluzione: dal fenotipo agli approcci molecolari"

### *"The driving force of life: evolution"*

#### *How prokaryotes and eukaryotes adapt their genomes in space and time*

In this course, Italian and international scientists (geneticists, microbiologists, parasitologists and molecular and cellular biologists) will present evolution from their particular point of view.

**Organizers:** 2<sup>nd</sup> year PhD students (XXVII ciclo) of the Program in Genetics, Molecular and Cellular Biology

**Faculty Advisors:** C. Fenoglio, L. Gomulski, E. Raimondi, L. Sacchi, O. Semino, A. Torroni, (Dipartimento di Biologia e Biotecnologie, Università di Pavia) e F. Focher (Istituto di Genetica Molecolare, CNR)

#### **Tuesday, 21<sup>st</sup> May 2013**

10:30 – 12:30 **Federico Focher** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Alfred Russel Wallace (1823-1913), l'evoluzionista dimenticato"

15:00 – 17:00 **Johannes Krause** - Aula Grande, Dip. Biologia e Biotecnologie, Botta 2  
"Paleopathogenomics: the evolution of human pathogens from ancient skeletons"

#### **Wednesday, 22<sup>nd</sup> May 2013**

11:00 – 13:00 **Johannes Krause** - Aula Grande, Dip. Biologia e Biotecnologie, Botta 2  
"What makes us human: insights from archaic human genomes"

#### **Tuesday, 28<sup>th</sup> May 2013**

10:30 – 12:30 **Luciano Sacchi** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Origine ed evoluzione della cellula eucariotica: sviluppi storici e modelli sperimentali"

14:00 – 16:00 **Serap Aksoy** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Evolution of bacterial symbiosis"

#### **Thursday, 30<sup>th</sup> May 2013**

10:30 – 12:30 **Claudio Bandi** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Coevolution, inter-genomic conflicts and genome evolution in host-symbiont associations"

14:00 – 16:00 **Serap Aksoy** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Community dynamics shaping host infection outcomes"

#### **Tuesday, 4<sup>th</sup> June 2013**

15:00 – 17:00 **Kevin Sullivan** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie

"The centromere: structure and function of an epigenetic locus"

**Wednesday, 5<sup>th</sup> June 2013**

10:30 – 12:30 ***Kevin Sullivan*** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Evolution of chromosome segregation systems"

15:00 – 17:00 ***Antonio Torroni*** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Mitochondrial genome variation: a female perspective in evolution"

**Thursday, 6<sup>th</sup> June 2013**

15:00 – 17:00 ***Michele Morgante*** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Plant genome evolution: transposable elements and structural variation-part1"

**Friday, 7<sup>th</sup> June 2013**

10:30 – 12:30 ***Michele Morgante*** - Aula "A. Buzzati-Traverso", Dip. Biologia e Biotecnologie  
"Plant genome evolution: transposable elements and structural variation-part2"