

DOTTORATO DI RICERCA IN BIOLOGIA EVOLUZIONISTICA ED ECOLOGIA



UNIVERSITÀ DI FERRARA



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UNIVERSITÀ DI PARMA

Starting October 5th, professor **Jaume Bertranpetit**, Pompeu Fabra University (Barcelona) and Director of ICREA (Catalan Institution for Research and Advanced Studies) (<http://biologiaevolutiva.org/jbertranpetit/>) will be our guest in Ferrara as Copernicus Visiting Student 2016.

Professor Bertranpetit will deliver a course entitled *Lessons from the variation in the genome*. All classes will start at 14.30 and last approximately two hours, with the following schedule:

Wed 5 Aula magna IUSS, via Scienze 41/b

Thu 6 Aula Colombo, Dipartimento di Scienze della Vita e Biotecnologie, via Borsari 46

Mon 10 Aula Colombo, Dipartimento di Scienze della Vita e Biotecnologie, via Borsari 46

Thu 13 Aula Colombo, Dipartimento di Scienze della Vita e Biotecnologie, via Borsari 46

Tue 18 Aula Colombo, Dipartimento di Scienze della Vita e Biotecnologie, via Borsari 46

Mon 24 Aula Colombo, Dipartimento di Scienze della Vita e Biotecnologie, via Borsari 46

Topics will include:

- What we can learn by comparing genomes: from population history to the understanding of biological function.
- Evolution at the molecular level as a paradigm, from future biomedicine to ecology.
- Understanding adaptation in the genome era
- Several talks on detecting natural selection in the genomes
- Introduction to evolutionary systems biology: the genetics of complex adaptations
- Natural selection and adaptation in apes
- Individual genomes: Lessons from my own genome
- Genomes and demography: reconstructing population history
- Study on Andamanese: selection, introgression, migration. Adaptation to insularity
- Is selection still acting in humans?
- Recombination as a population genetics tool
- African populations: interest, challenges, results
- The genetics of complex traits. Missing heritability. Future trends.
- The genetics and evolution of behavioral traits

All PhD students, and anybody else who is interested, are invited to participate.

IL COORDINATORE