



PhD Course in MOLECULAR and CELLULAR BIOLOGY

Ph.D. RETREAT March 14-16, 2024 - VENEZIA

Thursday 14th

Chair: Prof. Thomas Vaccari

-13:30 **C. Banfi**

Unveil the molecular mechanisms regulating apomixis in dandelion

-14:05 **C. Astori**

Control of female germline specification: from molecular characterization to evolutionary conservation

-14:40 **G. Orozco Arroyo**

Modulating cytokinin content in rice to promote higher grain productivity

-15:15 **Break**

Chair: Prof.ssa Lucia Colombo

-15:45 **C.C. Ferrario**

Modifying phyllotaxis in Brassica seed crop species for yield improvement

-16:20 **E. Marone Fassolo**

New antimicrobial peptides for a sustainable agriculture

-16:55 **V. Torricella**

Exploiting the barley genetic variability for improving crop adaptation to fluctuating light intensities in the field

-19:00: Open discussion

After PhD: Researcher profile in public vs private. A platform for open positions (academy)?

Job placement activities (private sector)?

-20:00 Dinner (Ph.D. students and Supervisors)



Friday 15th

Chair: Prof. Paolo Landini

-8:30 **G.A. Bono**

Defining the function of rice florigenic proteins during the reproductive transition and inflorescence development

-9:05 **C. Paleni**

Genomic studies in *Salvia pratensis*: endemic species conservation and flower development

-9:40 **L.M.G. Palloni**

AMPK kinase modulates HCN4 channels through direct phosphorylation of serine 1157

-10:15 **Break**

Chair: Prof. Marco Nardini

-10:45 **M. Tiberi**

Integrated structural biology on transcription factors: NFIX and NF-Y

-11:20 **S. Ravishankar**

Anti-biofilm activity of fluorocytosine (5-FC) and its synergy with new generation beta-lactam antibiotics impair pre-formed *Escherichia coli* clinical biofilm

-11:55 **F. Ballabio**

Accurate and Efficient SAXS/SANS Implementation Including Solvation Layer Effects Suitable for Molecular Simulations

-12:30 **G. Pagani**

The interplay between alternative polyadenylation and microRNAs in the regulation of oncogenic factors

-13:05 **Lunch**

Chair: Prof.ssa Elena Cattaneo

-14:00 **G. Cesare**

Characterization of the E3 ligase Hecw function in autophagy

-14:35 **A. Scolz**

ADAM10 (dys)function at the Huntington's Disease cortico-striatal synapse

-15:10 **S. Poletti**

The alternative splicing of NF-YA governs differentiation of mouse Embryonic Stem Cells

-15:45 **Break**

-16:15 **M. Zaccaria**

Dissecting DpaA role for *Escherichia coli* survival to outer membrane stress

-16:50 **R. Pizzoccheri**

Development of models and assays for the functional analysis of human PNPase pathological variants

-20:00 Dinner (Ph.D. students)