



**31st International Conference on Yeast Genetics and Molecular
Biology
ICYGMB31**

<https://www.yeastflorence2023.com/>

Local Conference Organizer: Duccio Cavalieri, University of Florence.

International Organizing Scientific Committee

Terrance Cooper, Jens Nielsen, Diethard Mattanovich, Steve Oliver, Andriy Sibirny, and the Finance and Policy Committee (FINPOL).

National Organizing Scientific Committee.

Alberto Amaretti, Paola Branduardi, Stefano Campanaro, Valentina Cappelletti, Tiziana Cervelli, Cristina Dallabona, Alberto Inga, Ileana Ferrero, Marco Foiani, Marco Fondi, Alvaro Galli, Sergio Giannattasio, Paola Goffrini, Stefano Mancuso, Valeria Mapelli, Enzo Martegani, Massimiliano Marvasi, Cristina Mazzoni, Marco Muzi Falconi, Luigi Palmieri, Graziano Pesole, Danilo Porro, Edoardo Puglisi, Rino Rappuoli, Teresa Rinaldi, Maddalena Rossi, Irene Stefanini, Arianna Tavanti, Marco Vanoni.

On site support team.

Giovanni Bacci, Francesca Bucci, Benedetta Cerasuolo, Francesca Coscione, Agnese Gori, Irene Marcantelli, Giulia Marino, Valentina Mirannalti, Siria Mucci, Stefano Nenciarini, Luisa Ponticelli, Sonia Renzi.

Sunday 20th August

16.00-17.00	Registration
17.00-17.15	OPENING CEREMONY Welcome address
17.15-18.15	Opening Keynote Lecture: Brenda Andrews: "Mapping biological networks using systematic genetics and cell biology".
18.30-20.00	Welcome party

Monday 21st August-Palazzo Dei Congressi

Palazzo dei Congressi-Piazza Adua

08.30-10.30	Plenary Session 1 - Yeast Evolutionary Genomics <i>Chairs: Gianni Liti and Daniela Delneri</i> Joseph Schacherer - "Genome Evolution" Daniela Delneri - "Interspecific Hybridization and yeast species evolution"? 2 Talks selected from abstracts
10.30-11.00	Coffee Break
11.00-13.00	Plenary Session 2 - Systems Level Reconstruction of Cell-Cell Interactions <i>Chairs: Sophie Martin, Liz Ballou, and Stefano Campanaro</i>

Liz Ballou - "Yeast-environment interactions"
 Kiran Patil - "Yeast metabolism in ecological context"
 Sophie Martin - "Molecular mechanisms of yeast cell mating"
 Zdena Palkova - "Spatially structured yeast populations: Interactions, differentiation and regulatory networks"
 1 Talk selected from abstracts

13.00-14.30 Lunch Break

14.30-16.00 Poster Session

16.00-16.30 Coffee Break

16.30-18.30 WORKSHOPS 1-2-3

Workshop 1 – Cell death, ageing, Telomeres (Cristina Mazzoni, Frank Madeo)
 Workshop 2 – Yeast Sociobiology-Sensing and Signaling (Gianluigi Cardinali, Sophie Martin)
 Workshop 3 – Yeast Evolution and Ecology (Pietro Buzzini, Rosa Margesin).

Tuesday 22nd August

08.30-10.30 Plenary Session 3 - Yeast Commensalism and Pathogenesis

Chairs: Arianna Tavanti and Neil Gow

Suzanne Noble –

Neil Gow – "Shaking hands with the enemy: Candida cell wall – immune receptor interactions."

Frank Madeo – "From regulated cell death in yeast to anti-aging and anti-fungal treatments"

Short Talk Selected from Abstracts Jurgen Wendland - "Predator Yeasts"

10.30-11.00 Coffee Break

11.00-13.00 Plenary Session 4- Yeast Biotechnology

Chairs: Danilo Porro, Valeria Mapelli and Diethard Mattanovich

Tom Ellis - "Synthetic Yeast Chromosomes and their biotechnological applications"

Irina Borodina - "Engineering yeast for production of novel foods"

Paola Branduardi - "Closing the loop: The power of microbial biotransformations from traditional bioprocesses to biorefineries, and beyond"

2 Talks selected from abstracts

13.00-14.30 Lunch Break

14.30-16.00 Poster Sessions-wine and cheese break.

16.00-18.00 WORKSHOPS 4-5-6

Workshop 4 - Growth control and metabolism (Sergio Giannattasio, Marco Vanoni)

Workshop 5 - Gene expression: from epigenetic regulation to mRNA stability and Cell Cycle Control (Naama Barkai, Matteo Barberis)

Workshop 6 – Stress Response, aggregation and Misfolding (Valentina Cappelletti, Tiago Outeiro).

18.00-19.00 Keynote Lecture: Yoshinori Oshumi-Nobel Prize for Medicine 2016-Yeast as a model in biomedical research-(pending).

Wednesday 23th August

08.30-09.30 Hot Topics Session- Singer Instruments Workshop

Chair: Pascale Daran Lapujade, John Morrissey, Harry Singer.

[Speakers selected from the most innovative abstracts.](#)

09.30-10.30 Resources for the yeast community SGD & Pombase Workshop-

Chair Mike Cherry

Speakers from SGD and Pombase

10.30-11.00 Coffee Break

11.00-13.00 Plenary Session 5 – Classical Yeast Genetics and Molecular Biology

Chairs: Terrance Cooper, Ileana Ferrero, and Marco Muzi Falconi

Marco Foiani – “Topological mechanisms mediating intra and inter chromosomal connections”

J. Marie Hardwick– “Amino acid sensing, vesicle trafficking to the vacuole, cell death and virulence”

Claudio De Virgilio – “Metabolic control of TORC1”.

Michael Lisby - “The proteome of DNA Repair”

13.00-14.30 Lunch Break

14.30-16.00 Poster Session-Wine and cheese event sponsored by a wine maker.

16.00-18.00 WORKSHOPS 7-8-9

Workshop 7 – DNA replication & recombination; DNA Damage & Repair (Dana Branzei, Marco Muzi Falconi)

Workshop 8 - Systems & Synthetic Biology of Yeasts (Paola Branduardi, John Morrissey).)

Workshop 9 - Yeast Biotechnology (Alberto Amaretti, Alberto Inga, Andri Sibirny).

18.00-19.30 Special Event 1 - Yeast Cell Cycle and modelling Transcriptional regulation.

In memory of Stefan Hohman-Novo Nordisk Session

Chairs: Lilia Alberghina and Steve Oliver

Matteo Barberis – “TBD”

Naama Barkai - “RNA stability and protein fate in Cell development”

Terrance Cooper - “Multivariant global control of the major nitrogen-responsive transcription activator, Gln3”.

Thursday 24th August

- 08.30-10.30 **Plenary Session 6 - Yeast as a Model to study mechanism of disease**
Chairs: Sergio Giannattasio, Cristina Mazzoni and Alvaro Galli
Tiago Outeiro - "From the baker to the bedside: yeast as a model of synucleinopathies"
Cristina Dallabona - "Yeast as a model to study mitochondrial disorders"
Dana Branzei "Good and bad about replication-associated recombination".
2 lectures selected from abstracts.
- 10.30-11.00 Coffee Break
- 11.00-13.00 **Plenary Session 7 - Yeast cells and organelles as cell factories.**
Chairs: Andrei Sibirny, Luigi Palmieri, Cristina Dallabona
Andriy Sibirny - "Metabolic engineering of non-conventional yeasts *Komagataella phaffii* and *Candida famata* for the production of bacterial antibiotics roseoflavin and aminoriboflavin"
Yongjin Zhou - "Engineering yeast for production of valuable chemicals through targeting pathways to specific organelles - in particular peroxisomes."
3 Talks selected from abstracts
- 13.00-14.30 Lunch Break
- 14.30-16.30 **Plenary Session 8 - Synthetic and Systems Biology**
Chairs: Jens Nielsen and Teresa Rinaldi
Ferian Li - "Mathematical modeling of yeast: a driver for innovation in biotechnology and human medicine"
Charlie Boone - "Mapping genetic and chemical-genetic networks in yeast"
Pascale Daran Lapujade- "Pathway swapping and chromosome engineering"
Daniel Segré - "Modeling the rise of microbial interdependences in yeast cheater-cooperator system"
Patrick Cai - "Constructing Synthetic yeast chromosomes with tRNA genes".
- 16.30-17.00 R.K. Mortimer and M. Polsinelli Lecture and Award for research on wine yeasts: Gianni Liti : "Origin, dispersal and domestication of the budding yeast *S. cerevisiae* "
- 17.00-18.00 Closing Ceremony, communications from IUMS (Rino Rappuoli) and FEMS (Davide Zannoni) Best poster and Best presentation prizes.
- 18.00-19.00 Closing Keynote Lecture-Jef Boeke - "Yeast Synthetic Biology: Past Present and Future"
- 19.00: Social Dinner-Farewell Party.

Friday 25th August-Polo delle Scienze Sociali di Novoli. Satellite workshop on Yeast from fermented foods to immune modulation

- 09.00-11.00 **Satellite workshop 1 - Yeast Ecology and Fermentations: the intimate relationship of *S. cerevisiae* and fermented foods**
Chairs: Irene Stefanini, Edoardo Puglisi, and Jurgen Wendland

Irene Stefanini – “Yeast-insects associations: from ecology and evolution to winemaking”
Kevin Vestrepen - “Interspecific hybridization as a driver of fungal evolution and adaptation”

Vladimir Jiranek – “The yeast consortia involved in tree sap fermentations performed by indigenous Australian peoples”

Jean Luc Legras - “From vineyard to winery: *S. cerevisiae* microbial diversity driving wine fermentation”.

11.00-13.00 Satellite Workshop 2- Yeast Research meets the Industry:

11.00-11.30 From Vine to winery-wine yeast research meets the wine industry.

11.30-12.00 From beer to Brewery-The future of beer yeast research .

12.00-12.30 Bread yeasts and Mediterranean diet for a sustainable nutrition. COOP sponsored event.

12.30-13.00 The future of the industrial applications of Yeasts.

13.00-14.30 Lunch Break

14.30-17.00 Satellite Workshop 2 - Yeast probiotics, trained immunity and the fungal microbiome.

Chairs: Duccio Cavalieri, Rino Rappuoli and Cristina Cuomo

Rino Rappuoli - “Role of yeasts in vaccines, immunity and adjuvants”

Duccio Cavalieri: “*S.cerevisiae* and the evolution of commensalism.”

Luigina Romani- "Yeasts: Immunity and therapeutics".

Johan Thevelein – “TBD”

Christina Cuomo – "Intra-host diversity and the emergence of systemic *Candida* infections".

17.30-19.30 Yeast Meets industry farewell cocktail: Event with the bread&wine&beer&Cheese producers and yeast companies.