

- 15:40** Dr. A. Beccu (ICB-CNR)
Tetrazole-Based Peptidomimetic as Catalysts and Building Blocks for Bioactive Molecules.
- 15:55** Dr. C. Giraldo (ICB-CNR)
Complexation of side-chain peptide intermediates with magnesium chloride for facilitation of API preparation: an example of Tirzepatide.
- 16:10** Dr. M. Monticelli (ICB-CNR)
Small molecules and missense mutations.
- 16:25** Dr. M. Solinas (ICB-CNR)
Design and synthesis of new benzoxazole derivatives and study of their interaction with the human telomeric G-Quadruplex.
Coffee break
- 17:00** Prof. R. Battistutta (Università di Padova-Associato ICB)
Structural evidence of negative cooperativity for a dimeric enzyme.
- 17:20** Dr. A. Cattaneo (ICB-CNR)
Biotreatment of polyester plastic pollutants by carboxyl ester hydrolases from extremophilic bacteria.
- 17:35** Dr. L. Ferreri (ICB-CNR)
Nanotechnology to improve the performance of small molecules.
- 17:50** Dr. V. Giglio (ICB-CNR)
Calixarene-based Cryopolymers towards an efficient platform for air and water remediation.
- 18:05** Dr. R. Villano (ICB-CNR)
Green organic synthesis of bioactive molecules for biomedical studies.
- 19:30** **Aperitivo in piscina**
Durante l'aperitivo è previsto un riconoscimento ai giovani ricercatori che hanno partecipato con i loro contributi alle giornate del VII Convegno ICB.
- 20:30** **Cena sociale**

Dicembre 7

Chairperson: Dr. V. Di Marzo – Dr. P. Ruzza

- 09:30** Dr. J. D'Amato Tóthová (Alchimia)
The Synergy between Industry and Academia in Medical Devices Development.
- 09:45** Dr. A. Ricci (Fresenius Kabi Ipsum)
Therapeutic Peptide Manufacturing Processes Design and Development: Fresenius ICB Collaboration.
- 10:00** Dr. S. Petrosino (Epitech Group)
To follow where Nature Leads. Innovative Research from the Collaboration between Epitech Group SpA and ICB.
- 10:15 - 10:45** **Dibattito**
- 11:15 - 12:30** **Tavola Rotonda**
- 12:45 - 13:00** **Saluti**
- 13:00 - 14:30** **Lunch**



7 Convegno
**Istituto
di Chimica
Biomolecolare**

PADOVA
Best Western Plus
Hotel Galileo

**DIC
5-7
2023**



11:00 Apertura iscrizione

13:00 Pranzo di benvenuto

Chairperson: Prof. A. Fontana - Dr. P. Ruzza

14:00 Saluti Istituzionali

(Direttore DiSC Unipd Prof. S. Mammi; Direttore DSCTM CNR, Prof. L. Armelao)

14:30 Prof. S. Gross (Invited: Università di Padova)

Rethinking chemistry: the role of chemical sciences in the circular economy.

15:10 Dr. N. Forte (ICB-CNR)

Combined electrophysiological and behavioural approaches for the screening of small neuroactive molecules' biological activity.

15:25 Dr. F. Albiani (ICB-CNR)

Sulphur metabolites: a new potential source of immunomodulators.

15:40 Dr. V. Di Marzo (ICB-CNR)

Effect of dietary oils rich in omega-3 polyunsaturated fatty acids on the metabolome of the human intestinal microbiota simulated ex vivo.

Coffee break

16:45 Prof. E. Schievano (Università di Padova - Associato ICB)

New NMR-based protocol for assessment of honey authenticity.

17:05 Dr. D. Carbone (ICB-CNR)

Identification of natural compounds as inducers of Immunogenic Cell Death (ICD) in cancer/melanoma.

17:20 Dr. M. Rotondo (UniNa/ICB-CNR)

Vimentin peptide fragments interacting with G4-Repeats.

17:35 Dr. A. Nicois (ICB-CNR)

Cell cultures and live cell time-lapse scanning in the biological characterization of small neuroactive molecules.

17:50 Dr. L. Cristino (ICB-CNR)

Integrative approaches by multiscale imaging, biochemical and functional screening to study neuroactive molecules.

Serata libera



09:40 Dr. R. Villano (ICB-CNR)

New reaction methodologies and organic synthesis, from green chemistry to life sciences.

09:50 Dr. F. Cunsolo (ICB-CNR)

Supramolecular chemistry: from macrocycles to nanotechnology and polymeric materials looking for technology transfer opportunity.

10:05 Dr. B. Biondi (ICB-CNR)

Peptides & Proteins Today: from conformational features to biological properties.

10:20 Dr. L. Cristino (ICB-CNR)

Orexins, small neuropeptides with pleiotropic functions at the interface of chemistry and cell biology for life sciences: complementary approaches of study at ICB.

10:35 Dr. E. Mollo (ICB-CNR)

Chemical ecology: a functional approach to natural products.

10:50 Dr. M. L. Ciavatta (ICB-CNR)

From complex mixtures to single small molecules: the role of Natural Products chemistry in Life Sciences.

Coffee break

11:30 Dr. A. Patti (ICB-CNR)

Biocatalysis as multifaceted tool in organic synthesis: facts and perspectives.

11:45 Dr. D. Fabbri (ICB-CNR)

Synthesis of natural-like phenols and biphenols as potential bioactive molecules.

12:00 Dr. C. Gallo (ICB-CNR)

Innovative Chemical Biology approach for the identification of small molecules and their functional role.

12:15 Dr. A. Poli (ICB-CNR)

Microbial resources toward green and sustainable future.

12:30 Dr. P. Spanu (ICB-CNR)

Synthetic Organic Chemistry Research Group. Development of Sustainable Synthesis and Application in Drug Discovery.

12:45 Dr. G. d'Ippolito (ICB-CNR)

Biosynthesis of green hydrogen.

13:00-13:30 Discussion

13:30-15:00 Lunch

Chairperson: Dr. P. Spanu - Dr. M. Gavagnin

15:00 Prof. F. Formaggio (Invited: Università di Padova-Associato ICB)

Quaternary α -amino acids: privileged molecules for the design of drugs and complex 3D-structures.

Chairperson: Prof. A. Fontana - Dr. N. D'Antona

09:00 Intervento del Direttore ICB

09:10 Dr. V. Di Marzo (ICB-CNR)

The Joint International Research Unit between the CNR and Université Laval, Quebec City (CA) on Chemical and Biomolecular Studies on the Microbiome and its Impact on Metabolic Health and Nutrition (JIRU-MicroMeNu).

09:20 Dr. M.G. Melilli (ICB-CNR)

Food quality and novel foods

09:30 Dr. G. Andreotti (ICB-CNR)

Studying bioactive small molecules and protein targets: examples from our 10-years' experience with rare diseases.

