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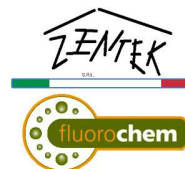
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IFCS 2025

Italian Flow Chemistry
Symposium

**Centro Polifunzionale Studenti,
Piazza C. Battisti**
Bari

MAY **08–09** 2025



THURSDAY, MAY 08

08:00 – 10:00 Registration

10:00 – 10:20 Welcome

Session 1 Chair: Renzo Luisi

10:20 – 11:05 PL1

Jean-Christophe Monbaliu
University of Liège

From fragile to feasible: flow and *in silico* tools to tame reactive nitrogen species



11:05 – 11:20 OC1 – Francesca Annunziata
University of Milano

Chemo-enzymatic flow synthesis of nature-inspired phenolic derivatives with potential neuroprotective, antimicrobial and antioxidant properties

11:20 – 11:40 Coffee Break

Session 2 Chair: Gabriele Laudadio

11:40 – 12:10 KN1

Alessandra Puglisi
University of Milano

Flow chemistry: a powerful tool for the synthesis of chiral molecules



12:10 – 12:25 OC2 – Ilenia Alfano
University of Napoli

Modular synthesis of benzoylpyridines exploiting a catalyst-free reductive arylation strategy

12:25 – 12:40 OC3 – Elena Quadri
University of Pavia

Synthesis of substituted cyclopentenones under flow conditions via decatungstate photocatalyzed preparation of 1,4-diketones

12:40 – 12:55 OC4 – Viktoriia Velichko
Politecnico di Milano

Photocatalytic oxidation of para-methoxy toluene using single-atom catalyst thin-film reactor in continuous flow

12:55 – 14:30 Lunch/Poster Session

Session 3 Chair: Gianvito Vilè

14:30 – 15:15 PL2

Julien Legros
University of Rouen Normandy

Generation of transient species in flow reactors for chemical synthesis and neutralization of toxic compounds



15:15 – 15:30

OC5 – Filippo Zanoni
Istituto di Chimica e Biochimica
"G. Ronzoni"

Lipid nanoparticles: encapsulation of polysaccharides

15:30 – 15:45 OC6 – Omar Ginoble Pandoli
University of Genova

Biochars in flow bed-packed reactor for methylene blue removal: the role of carbon permanent free radicals and hydroxyl radical ($\cdot\text{OH}$) generation

15:45 – 16:15 Coffee Break/Poster Session

Session 4 Chair: Alessandra Puglisi

16:15 – 16:45 KN2

Gabriele Laudadio
University of Graz

Automated electrochemical flow platform: medicinal chemistry applications



16:45 – 17:00 OC7 – Adam Cruise
University College Dublin

Overcoming past limitations of Giese reactions through continuous flow processing and substrate design - regenerating the π -bond

17:00 – 17:15 OC8 – Jasmin Wloka
Magritek GmbH

Benchtop NMR spectroscopy for optimization and monitoring of flow reactors

17:15 – 17:30 OC9 – Elena Graziano
University of Bari

Generation and use of bicyclo[1.1.0]butyllithium under continuous flow conditions

19:30 – 22:00 Dinner
Le muse e il mare

FRIDAY, MAY 09

Session 5 Chair: Lucia Tamborini

09:00 – 09:45 PL3

Heidrun Gruber-Wölfler
Graz University of Technology

Glow and grow in flow: approaches of (photo-, bio-, chemo-)catalysis and crystallization in continuous flow



09:45 – 10:00 OC10 – Francesco Secci
University of Cagliari

Development of continuous flow processes to support the synthesis of small organic molecules. Strained carbocyclic compounds, a case study

10:00 – 10:15 OC11 – Katy Elizabeth Medrano Uribe
University of Padova

Photocatalytic ring expansion of sulfonium salts for the synthesis of cyclic sulfides in flow

10:15 – 10:30 OC12 – Ina Varfaj
University of Perugia

Integrating analytical methods and *in silico* simulations to expedite continuous flow synthesis

10:30 – 10:45 OC13 – Lorenzo Gazzola
Zaiput Flow Technologies

Enhanced, scalable, continuous heterogenous catalysis

10:45 – 11:05 Coffee Break

Session 6 Chair: Antimo Gioiello

11:05 – 11:35 KN3

Jun Yue
University of Groningen

Continuous flow intensification of separation and chemical transformation in microreactors: synergy between transport phenomena and reaction kinetics



11:35 – 11:50 OC14 – Andrea Basso
University of Genova

Flow ketene 3-component Staudinger reaction to β -lactams

11:50 – 12:05 OC15 – Valeria Napolitano
University of Salerno

Synthesis of 3,4-dihydro-1H-benzo[e][1,4]diazepine-2,5-dione core: from in-batch to microwave-assisted and in-flow optimization approach

12:05 – 12:20 OC16 – Ruairi Crawford
University College Dublin

Direct photochemical synthesis of substituted benzo[b]fluorenes

12:20 – 12:35 OC17 – Leandro Nogueira
Alfatest

Flow chemistry: general application overview and tools

12:35 – 13:20 PL4

Richard Bourne
University of Leeds

Industry 4.0: Bayesian optimisation for accelerated development of sustainable processes



13:20 – 13:45 Concluding remarks and poster prizes