



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



CENTER FOR
CHEMICAL CATALYSIS

C³ Kick-Off Meeting Bologna, 31st May 2022

Final Programme

9:00-9:30; Opening Remarks (Bandini, Mazzoni, Direttori)

Chair (E. Tagliavini)

9:30-10:15 IL1; **Dr. Jacopo Roletto**

Procos S.p.A. (CBC Group)

"API manufacturing: scale up of hydrogenation reactions through a multidisciplinary approach"

Chair (A. Gualandi)

10:15-10:25 OC1; **Chiara Portolani**

Enantio- and diastereoselective synthesis of novel N-N atropisomeric hydrazides by sequential catalysis.

10:25-10:35 OC2; **Giandomenico Magagnano**

Photochemical Processes for the Functionalization of Alkenes and Alkynes

10:35-10:45 OC3; **Federica Mariani**

Amplification of Electrocatalytic Signals with Organic Electrochemical Transistors

10:45-11:05; Coffee break

Chair (G. Bencivenni)

11:05-11:15 OC4; **Giulio Bertuzzi**

Reductive cross-electrophile couplings: nickel-catalysis and electrosynthesis

11:15-11:25 OC5; **Francesca Forti**

Bimetallic Ruthenium carbonyl cluster: synthesis, characterization and study of catalytic activity



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11:25-11:35 OC6; **Demetra Giuri**

Are supramolecular gels suitable media to control catalytic reactions?

11:35-11:45 OC7; **Stefano Corrà**

Stereodynamics of Mechanically Interlocked Molecules

Chair (P. Benito-Martin)

11:45-11:55 OC8; **Giorgia Pagnotta**

Nanostructured polymeric sustainable materials as supports for heterogeneous catalysis

11:55 -12:05 OC9; **Dario Corbisiero**

Fast, Enantioselective and Tailored MacMillan's Imidazolidinone-Catalysis for the Synthesis of Polyfunctionalized δ_4 -Isoxazoline Scaffold

12:05-12:15 OC10; **Danilo Arcangeli**

Electrocatalytic Oxidation of Uric Acid on PEDOT:PSS Films for Wound Health Status Monitoring

12:15; Greetings by the Rector of the Alma Mater Studiorum - Università di Bologna
Prof. Giovanni Molari

12:30-14:00 Light lunch

Chair (A. Quintavalla)

14:00-14:10 OC11; **Federico Poli**

Biochar based electrodes for oxygen reduction reaction in microbial fuel cell

14:10-14:20 OC12; **Tainha Marforio**

Deciphering Reaction Mechanisms in Bio- and Nano- Catalysis

14:20-14:30 OC13; **Francesco Maluta**

Development of an Experimental/Computational approach for the characterization of tubular reactors with heterogeneous catalysts

Chair (F. Cavani)

14:30-15:15 IL2; **Dr. Paolo Pollesel - Dr. Carlo Perego**

Renewable Energy & Environmental R&D, Eni S.p.A.

"Development of catalytic technologies in Eni"



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15:15-15:30; Networking

Chair (A. Quintavalla)

15:30-15:40 OC14; **Andrea Cantelli**

EPR probes for the detection of binding events in aqueous and non-conventional environments

15:40-15:50 OC15; **Alessia Ventimiglia**

Catalytic systems in low environmental impact processes: a theoretical and experimental study

Chair (R. Mazzoni)

15:50-16:00 OC16; **Fermi Andrea**

Enabling metallaphotoredox catalysis with visible light

16:00-16:10 OC17; **Alessandro Allegri**

Aquivion® PFSA-based spray-freeze dried composite catalysts for the one-pot domino reaction from furfural to γ -valerolactone

16:10-16:20 OC18; **Davide Carboni**

Hydrofunctionalization of Allenamides

16:20-16:40; Networking

Chair (R. Mazzoni)

16:40-16:50 OC19; **Andrea Fasolini**

Catalysis for renewables and innovative processes: consolidated and novel research lines toward a greener future

16:50-17:00 OC20; **Valentina Girdali**

Biocatalysis in organic synthesis: application of the Laccase Mediator System for greener oxidation reactions of alcohols and amines

Chair (P. Benito-Martin)

17:00-17:10 OC21; **Francesco Calcagno**

Disclosing the mechanism of the Guerbet reaction: a computational and experimental study



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17:10-17:20 OC22; **Giorgiana Denisa Bisag**

Organocatalytic reactions of stabilized sulfoxonium ylides with salicylaldehyde derivatives for the synthesis of chromane structures

17:20-17:30 OC23; **Andrea Canciani**

Electrocatalytic conversion of biomass-derived molecules

17:30-17:45; Closing Remarks