

Curriculum Vitae

Tommaso Fantoni



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POSIZIONE RICOPERTA

Assegnista

Alma Mater Studiorum – Università di Bologna, Dipartimento di Chimica “Giacomo Clamician”

ISTRUZIONE ed ESPERIENZE LAVORATIVE

03/11/2019 – 21/06/2023 Bologna, Italy

PhD - Alma Mater Studiorum - University of Bologna

Research group: TOLOMELLI CABRI / P4I LAB - PEPTIDOMIMETICS AND PEPTIDES

TARGETING PROTEIN- PROTEIN INTERACTION

- Title of thesis: “Green approach to Palladium Cross-Coupling reactions and development of new methodologies based on highly abundant metals”

- Green and sustainable synthesis of peptides and peptidomimetics with SPPS technique.
- Identification and synthesis of peptides that inhibit ephrin binding and Eph receptor/ ephrin signaling.
- Investigation of green and sustainable Cross-Coupling reactions
- Late-Stage-Functionalization of pepitdes through metal catalyzed cross-coupling reactions

COMUNICAZIONI a CONGRESSO

Author of 7 communications: 3 poster and 4 oral communications.

Comunicazioni Selezionate

- Fantoni, T.; Palladium Catalyst Recycling for Heck-Cassar-Sonogashira Cross-Coupling Reactions in Green Solvent/Base Blend. *A. Corbella" International Summer School on Organic Synthesis-ISOS*, Gargnano, 14/06/2021 – 17/06/2021 (Oral communication)
- Fantoni, T.; The twelve principles of green chemistry translation guide for palladium catalyzed cross coupling reactions. *Merck Young Chemists' Symposium*, Rimini, 22/11/2021 – 24/11/2021 (Oral communication)

PUBBLICAZIONI

8 articles published on international journals.

Pubblicazioni Selezionate

- Ferrazzano, L.; Martelli, G.; Fantoni, T.; Daka, A.; Corbisiero, D.; Viola, A.; Ricci, A.; Cabri, W.; Tolomelli, A. Fast Heck–Cassar–Sonogashira (HCS) Reactions in Green Solvents. *Org.Lett*, **2020**, 22, 3969–3973.
- Fantoni, T.; Bernardoni, S.; Mattellone, A.; Martelli, G.; Ferrazzano, L.; Cantelmi, P.; Corbisiero, D.; Tolomelli, A.; Cabri, W.; Vacondio, F.; Farlenghi, F.; Mor, M.; Ricci, A. Palladium Catalyst Recycling for Heck-Cassar-Sonogashira Cross-Coupling Reactions in Green Solvent/Base Blend. *ChemSusChem*, **2021**, 14, 2591–2600.
- Fantoni, T.; Tolomelli, A.; Cabri, W. A translation of the twelve principles of green chemistry to guide the development of cross-coupling reactions. *Catalysis Today*, **2022**, 397, 265–271.
- Martelli, M.; Cantelmi, P.; Tolomelli, A.; Corbisiero, D.; Mattellone, A.; Ricci, A.; Fantoni, T.; Cabri, W.; Vacondio, F.; Farlenghi, F.; Mor, M.; Ferrazzano, L. Steps towards sustainable solid phase peptide synthesis: use and recovery of N-octyl pyrrolidone. *Green Chem.* **2021**, 23, 4095–4106.