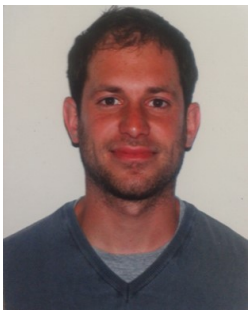
PERSONAL INFORMATION

Alessandro Panattoni



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Sex Male | Date of birth 13/09/1987 | Nationality Italian

WORK EXPERIENCE

10/2012 – 07/2014

Research project at the University of Pisa, Pisa, Italy.

Reaserch project on alkynylation reaction of azoles and synthesis of novel imidazole-based chromophores for dye-sensitized solar cells applications.

05/2015- to date

PhD studies under the supervision of Prof. Michal Hocek at the Institute of Organic Chemistry and Biochemistry AS CR, Prague, Czech Republic.

Research project on Enzymatic incorporation of DNA-targeting molecular scissors and side project on competitive incorporation of modified 5'-deoxyribonucleosides triphosphates.

EDUCATION AND TRAINING

21/07/2014

Graduated in Organic Chemistry at the Univerity of Pisa (Italy).
Degree score 110/110 with high honors.
Thesis work on the synthesis of novel imidazole-based chromophores for dye-sensitized solar cells applications exploiting Sonogashira-type alkynylation reactions.

12/2010 - 04/2011

Third year research project, under the supervision of Prof. Adriano Carpita, on Suzuki reaction catalyzed by Palladium nanoparticles supported on mesoporous silica.

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Publications

Panattoni, A.; El-Sagheer, A. H.; Brown, T.;Kellett, A. and Hocek, M.; Oxidative DNA Cleavage with Clip-Phenanthroline Triplex Forming Oligonucleotide Hybrids; *ChemBioChem*, **2020**, 21, 991–1000.

Lessi, M.; Panattoni, A. ; Guglielmero, L.; Minei, P.; Bellina, F.; Imidazole-Fused Enediynes by Selective C5-C4 Alkynylations of 4,5-Dibromoimidazoles; *Synthesis* **2019**; 51(04): 933-943.

Panattoni, A.; Pohl, R. and Hocek, M.; Flexible Alkyne-Linked Thymidine Phosphoramidites and Triphosphates for Chemical or Polymerase Synthesis and Fast Postsynthetic DNA Functionalization through Copper-Catalyzed Alkyne–Azide 1,3-Dipolar Cycloaddition; *Org. Lett.*, **2018**, 20, 3962–3965.

Cahová, H.; Panattoni, A.; Kielkowski, P.; Fanfrlík, J.; Hocek, M.: "5-Substituted Pyrimidine and 7-Substituted 7-Deazapurine dNTPs as Substrates for DNA Polymerases in Competitive Primer Extension in the Presence of Natural dNTPs" *ACS Chem. Biol.* **2016**, *11*, 3165 - 3171.

Barone, V.; Bellina, F.; Biczysko, M.; Bloino, J.; Fornaro, T.; Latouche, C.; Lessi, M.; Marianetti, G.; Minei, P.; Panattoni, A.; Pucci, A. "Toward the design of alkynylimidazole fluorophores: computational and experimental characterization of spectroscopic features in solution and in poly(methyl methacrylate)" *Phys. Chem. Chem. Phys.* **2015**, *17*, 26710 - 26723.

Bellina, F.; Lessi, M.; Marianetti, G.; Panattoni, A. "Highly regioselective C-5 Alkynylation of Imidazoles by One-pot Sequential Bromination and Sonogashira Cross Coupling" *Tetrahedron Lett.* **2015**, *56*, 3855 – 3857.

Oral communications:

Towards Enzymatic Production of DNA Targeting Molecular Scissor, Clickgene & COST CM1201 Meeting, Grenoble, France 25.-27. April 2016.

Enzymatic production of DNA-targeting molecular scissor, ClickGene mid-term meeting, Bologna, Italy 29/11/2016- 02/12/2016.

Referees

Fabio Bellina — Professor at the Department of Chemistry, University of Pisa. (fabio.bellina@unipi.it)

Michal Hocek — Professor at Charles University, Prague (hocek@uochb.cas.cz)

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