



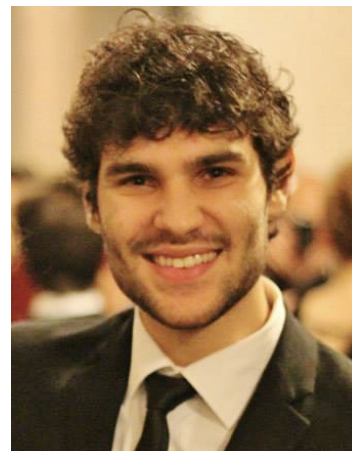
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KEYWORDS – Organic Chemistry, Medicinal Chemistry, Cancer Therapy

MAIN FIELDS OF RESEARCH; ABSTRACT

The research of the Group Neri focuses on the development of therapeutic proteins, with a particular emphasis on the isolation and in vivo characterization of antibody-derivatives. capable of selective localization on new blood vessels (e.g., tumor blood vessels). Further research topics of the group include the development of encoded self-assembling chemical libraries, as an avenue towards the isolation of nonpeptidic high-affinity binding molecules, to be used in targeted therapeutic applications.

At the beginning of my PhD I got involved on DNA-based compounds trying to improve binding affinity of known ligands (Submitted Manuscript).

In parallel, I started working on new targeted therapy against melanoma. With the aim of drive a cytotoxic compound to the tumour site, I developed an Antibody Drug Conjugate to compare with a future Small-Molecule Drug Conjugate. Hopefully, the two projects will be connected once we discover a Small-Molecule against the antigen of interest via DNA-encoded chemical library.

SPECIAL TECHNIQUES AND EQUIPMENT

DNA-encoded chemical libraries; Organic Synthesis, MS-spectroscopy; Fluorescence Polarization; Thermophoresis; Protein Derivatisation; Protein Expression and Purification;