

## Laurent Devel

PhD in Organic Chemistry

Researcher

Born on June 2<sup>nd</sup>, 1972

### *Professional address*

Alternative Energies and Atomic Energy Commission (CEA)

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### *Cursus*

2000: PhD in Organic Chemistry under the supervision of Pr. Andrée Marquet (Pierre et Marie Curie University, Paris VI).

2001-2002: Post-Doctoral position in the group of Pr. David Gani, (University of Birmingham, UK).

Since 2003: Researcher at the CEA.

2013: "Habilitation à Diriger les Recherches" (degree needed to supervise PhD's) (Paris XI University).

Since 2019: Head of the "Proteins chemical labeling" team

- *Current Research Associates*: 1 researcher, 2 Engineer, 1 technician, 1 post-doc, 1 PhD student.
- 32 publications / 1 patent.
- Several invited lectures (2 Gordon conferences)
- *Current Research Topics*: Conception of chemical probes to study enzyme/metalloproteases, Activity-based profiling, Site-specific modification of proteins, Mass spectrometry imaging and Nanomedicine.

### *Selected recent publications*

- A new transcriptional role for matrix metalloproteinase-12 in antiviral immunity. Marchant DJ, Bellac CL, Moraes TJ, Wadsworth SJ, Dufour A, Butler GS, Bilawchuk LM, Hendry RG, Robertson AG, Cheung CT, Ng J, Ang L, Luo Z, Heilbron K, Norris MJ, Duan W, Bucyk T, Karpov A, Devel L, Georgiadis D, Hegele RG, Luo H, Granville DJ, Dive V, McManus BM, Overall CM. *Nat Med.* **2014**, 20(5), p 493-502
- Synthesis and in Vitro and in Vivo Evaluation of MMP-12 Selective Optical Probes. Bordenave T, Helle M, Beau F, Georgiadis D, Tepshi L, Bernes M, Ye Y, Levenez L, Poquet E, Nozach H, Razavian M, Toczek J, Stura EA, Dive V, Sadeghi MM, Devel L. *Bioconjugate Chemistry.* **2016**, 27(10), p 2407-2417.
- Zinc-Metalloproteinase Inhibitors: Evaluation of the Complex Role Played by the Zinc-Binding Group on Potency and Selectivity. Rouanet-Mehouas C, Czarny B, Beau F, Cassar-Lajeunesse E, Stura EA, Dive V, Devel L. *J. Med. Chem.* **2017**, 60 (1), p 403-414.
- Synthesis and structural/functional characterization of selective M14 metallo-carboxypeptidase inhibitors based on phosphinic pseudo peptide scaffold: Implications on the design of specific optical probes. Covalada G, Gallego P, Vendrell J, Georgiadis D, Lorenzo J, Dive V, Aviles FX, Reverter D, Devel L. *J Med Chem.* **2019** Feb 28;62(4):1917-1931.
- Novel Matrix Metalloproteinase 12 selective radiotracers for vascular molecular imaging. Toczek J, Bordenave T, Gona K, Kim HY, Beau F, Georgiadis D, Correia I, Yunpeng Y, Razavian M, Jung J, Lequin O, Dive V, Sadeghi MM, Devel L. *J Med Chem.* **2019** Oct 11. doi: 10.1021/acs.jmedchem.9b01186.