2013

Publications, Patents & Chapter of books

Chimie Thérapeutique Group

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Biography

Mouâd Alami was born in 1959 in Fez (Morocco). He did his undergraduate studies at the University Pierre and Marie Curie in Paris and his PhD in 1987 at the same university with Pr. J.-F. Normant and G. Cahiez. After a two years (1987-89) post-doctoral position in collaboration with the Elf- Atochem company he joined on 1989 the CNRS (National Center for Scientific Research) at the Ecole Normale Superieure, ENS-Paris (Dr. G. Linstrumelle). In 1993, he spent one year of postdoctoral studies at the University of Santa-Barbara in the laboratory of Prof. B. H. Lipshutz and in 1997, he moved as an independent researcher at the CNRS to Cergy-Pontoise University. In 1999, he accepted a position at the, Faculty of Pharmacy (University Paris-Sud) where he became CNRS Research Director. Dr. ALAMI, team leader within the UMR BioCIS, was a member of the Scientific Council of the Department of Chemistry and the National Committee of CNRS - Section 12 (2004-08) and in 2012 was appointed to the National Council of universities (CNU Section-32). Since 2008 he is a deputy director of the UMR 8076 – BioCIS.

Dr Alami's field of specialization includes organometallic chemistry applied to organic synthesis, homogeneous catalysis, and medicinal chemistry. He published more than 140 papers, 5 international patents and 12 book chapters.

- **THE DEVELOPMENT OF NOVEL SYNTHETIC METHODOLOGIES INVOLVING ORGANOMETALLIC CHEMISTRY** (hydro and carbometallation reactions, selective C-C and C-N bonds formation in **heterocyclic chemistry** and **polyunsaturated molecules**, and the development of **new multi-components reactions** (MCR) towards organic synthesis,
- **MEDICINAL CHEMISTRY** particularly, the synthesis of structurally challenging and biologically relevant natural and non-natural products with antitumoral activity. We have a special interest in the design and synthesis of **anti-mitotic agents** that mediate their primary biological activity through a direct binding interaction with tubulin. Specific applications are in the discovery and development of **vascular disrupting agents (VDA)** for the treatment of solid tumors and ophthalmologic disorders. Additional projects include **anti-angiogenic agents**, **novel hsp90 inhibitors**, particularly those targeting C-terminal domain, as well as **progesterone receptor antagonists**.

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