

Luc LEBEAU, PhD

Design & Applications of Bioactive Molecules Laboratory
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Education

Ph. D. (December, 1989), DEA (June, 1986), Chem. Eng. (June, 1984): Louis Pasteur University, Strasbourg.

Academic Carrier

1989 (September): “Chargé de Recherche” CNRS, Bioorganic Chemistry Department (C. Mioskowski’s group), Bioorganic Synthesis Laboratory, Faculty of Pharmacy, Louis Pasteur University, Strasbourg;

1999 (September): “Directeur de Recherches” CNRS, Bioorganic Chemistry Department, Bioorganic Synthesis Laboratory, Faculty of Pharmacy, Louis Pasteur University, Strasbourg;

2001 (January): Head of Synthetic Organic Chemistry Laboratory, Bioorganic Chemistry Department, Faculty of Pharmacy, Louis Pasteur University, Strasbourg;

2006 (January)-2008 (December): Assistant-Director of Gilbert-Laustriat Institute, Illkirch;

2009 (January)-: Director of Design & Applications of Bioactive Molecules Laboratory.

Awards and Honors

CNRS Bronze medal (1991).

Total Publications

(SCI: 82), Citation (SCI): 1,218 (2011, September), h-index: 18.

Research Interests

Research mainly focusses on the development of synthetic methodologies and fabrication of molecular tools for applications at the interface of chemistry and biology. Such tools consist *i.e.* in fluorescent probes for time-resolved FRET measurements or nanoparticle tracking, analogs of polyphosphorylated biological compounds (vitamins, nucleosides and dinucleosides polyphosphate) for the development of immunoassays, or sophisticated lipid architectures for various applications. Concerning that last point, extensive efforts have been devoted to develop lipid compounds with original self-assembly properties. These properties are tailored to be exploited in the two-dimensional crystallization of water-soluble or membrane proteins at the air-water interface (structural biology), in the coating of surfaces (diagnostic), in the measurement of femto-forces (physics, biology), and in nucleic acid and drug delivery (therapeutic).