# **Special Issue**

# 10th Anniversary of Biology: Amyloid Interaction in Regulation of Protein Function, Prion Propagation, and Cell Death

## Message from the Guest Editor

Amyloid aggregation has been involved in severe neurodegenerative disease as well as in the regulation of cell functions. Physical properties of amyloid fibrils are useful for natural biofilms and are utilized for artificial nanotube elaboration. However, they also form membrane pores leading to cellular lysis. How can amyloid proteins govern cell viability through hydrophobic interactions, and how do cells deal with the formation of toxic aggregates? These are the questions that this review series aims to answer. Several aspects of amyloid aggregation, such as structural characterizations, the spread of yeast prions, cellular necroptosis, and neurodegeneration, will be examined. Recent interest in anti-prion systems (such as chemical or natural chaperones) and in the viral ability to block necroptosis by targeting amyloid interaction will add a therapeutic perspective to this series.

### **Guest Editor**

Dr. Marie Lise Maddelein

CNRS, IPBS (Institut de Pharmacologie et de Biologie Structurale),
Forotte de Narbonne BP64182, F-31077 Toulouse, France
UPS, IPBS, Université de Toulouse, F-31077 Toulouse, France
LCC UPR8241 CNRS, F-31400 Toulouse, France

### Deadline for manuscript submissions

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Biology Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 biology@mdpi.com

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Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56. FI-00014 Helsinki. Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

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