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Amyloid Hetero-Aggregation

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Message from the Guest Editors

This Special Issue will address the molecular and cellular mechanisms of amyloid hetero-aggregation, deposition, and toxicity of various proteins – human, bacterial, and viral. Amyloid formation is a widespread phenomenon due to in the generic property of polypeptide chains that self-assemble into cross-β-sheet superstructures and are manifested in numerous amyloid-related diseases, as well as in functional amyloids. The amyloid cascade lies at the center of amyloid disease pathology, involved in up to 50 human diseases. Amyloid formation in neurodegenerative disease and others is often associated with inflammation as a common denominator of those diseases. Since amyloids formed by individual polypeptides are highly polymorphic, their co-aggregates add up to the complexity and heterogeneity of the amyloid mixture. Despite the key clinical importance of amyloid formation, the mechanisms of co-aggregation of different amyloid species remain elusive. There is an unmet need to understand the architecture and mechanisms of self-assembly leading to the formation of hetero-aggregates composed of various amyloid polypeptides.

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Message from the Editor-in-Chief

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