

Current Protein & Peptide Science

Thematic Issue on

Role of Transforming Growth Factor family of peptides in health and diseases

Call-for-Papers

Transforming Growth Factor beta (TGF- β) family of peptides is composed by the subfamilies of TGF- β , BMP and Activins. This broad and versatile family of peptide has several physiological and pathological functions in many tissues. The importance of these functions has been demonstrated in a wide variety of processes, including development, differentiation, angiogenesis, apoptosis and survival. Moreover a dysregulated expression or aberrant signaling associated to peptides of (TGF- β) family can contribute to the development and progression of multiple human pathophysiological processes such as diabetes, cancer, and cardiovascular, skeletal muscle and renal disease. These pathological status can be potentiated by aging which is highly relevant considering that the population affected by chronic disease and aging is increasing in the last decades.

We encourage investigators to contribute reviews articles that summarize recent findings in both basic and clinical research in the field of the role of TGF- β family of peptides in both physiological and pathological status that will help to discuss current outcome and to understand the cellular and molecular mechanism involved. The potential topics include, but are not limited to:

- New mechanisms involved on the deleterious effect of TGF- β family of peptides in aging and chronic diseases.
- Recent advances on cellular and molecular aspects of mechanism, therapy or prevention of diseases in which TGF- β family is involved and potentially can be a target for interventions.
- Studies directed to find and develop new drugs anti- TGF- β family for prevention of pathological status.
- Signaling pathways that contribute effect of TGF- β family of peptides during development or healthy status.

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