

## Special Issue

# Immune- and Neurobiology of Prothymosin Alpha

### Message from the Guest Editors

Prothymosin alpha (ProT $\alpha$ ), an immunoreactive polypeptide, was isolated from rat thymus in 1984. Initially, ProT $\alpha$  was thought to be a precursor of thymosin  $\alpha$ 1, but subsequent studies that suggested ProT $\alpha$  may have intrinsic biological actions different from those of thymosin  $\alpha$ 1. Since then, two important findings have been reported. Jiang et al. (2003) reported that ProT $\alpha$  disrupts apoptosome functions by binding to ApaF1. Interestingly, a later study (2007) revealed that ProT $\alpha$  converts starvation-induced neuronal necrotic cell death to an apoptotic one. A series of studies by the latter group have further revealed that ProT $\alpha$  is released from neurons due to several intense stresses in a non-classical and non-vesicular way. These reports suggest that ProT $\alpha$  may have distinct cell type-specific actions in cell death mechanisms. Further studies have recently suggested that ProT $\alpha$  exhibits neurogenerative actions, possibly through a putative cell surface receptor as a DAMPs/alarmins member. Here, we intend to invite ProT $\alpha$ -related studies and to sort out and understand the immunobiology and neurobiology of ProT $\alpha$ .

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### Guest Editors

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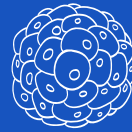
Dr. Sebok Kumar Halder

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### Deadline for manuscript submissions

closed (31 March 2023)



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