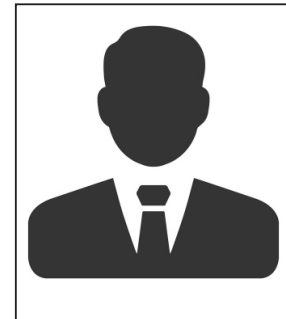


## **Title: Carboxypeptidase A3—A Key Component of the Protease Phenotype of Mast Cells**

**Dmitri Atiakshin**

Peoples' Friendship University of Russia, Moscow, Russia



Received: May 17, 2022; Editor assigned: May 18, 2022, Reviewed: May 25, 2022, QC No. Q-00001;  
Published: August 08, 2022, Invoice No. PPB-0000F3

Carboxypeptidase A3 (CPA3) is a specific mast cell (MC) protease with variable expression. This protease is one of the preformed components of the secretome. During maturation of granules, CPA3 becomes an active enzyme with a characteristic localization determining the features of the cytological and ultrastructural phenotype of MC. CPA3 takes part in the regulation of a specific tissue microenvironment, affecting the implementation of innate immunity, the mechanisms of angiogenesis, the processes of remodeling of the extracellular matrix, etc. Characterization of CPA3 expression in MC can be used to refine the MC classification, help in a prognosis, and increase the effectiveness of targeted therapy

### **Biography**

Dr. Dmitri Atiakshin Research and Educational Resource Center for Immunophenotyping, Digital Spatial Profiling and Ultrastructural Analysis Innovative Technologies, Peoples' Friendship University of Russia, Moscow, Russia.