



Cell Biology and Functions of the Multifunctional Lysyl Oxidase Family of Proteins

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Message from the Guest Editor

The lysyl oxidase family of genes consists of five related paralogues, each possessing the active lysyl oxidase enzyme activity domain at the C-terminus of the corresponding proteins. All five enzymes participate in extracellular biosynthetic collagen and elastin cross-linking and maturation critical for normal extracellular structure and function. Some examples include modulation of growth factor signaling, tumor suppression, basement membrane assembly, differentiation and functions of cells as diverse as endothelial cells, osteoblasts and megakaryocytes, macrophages, functional interactions with matricellular proteins, and coordination of elastin biosynthesis. Abnormal regulation, and lysyl oxidase mutations, can result in pathologies including cancer and vascular abnormalities. This volume will bring together new data, ideas and methodologies from active experts which will help to integrate understanding of the latest findings in this field, in both health and disease, which is receiving ever increasing interest and attention.





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Message from the Editor-in-Chief

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