MOLECULAR GENETICS AND METABOLISM REPORTS

DESCRIPTION

*Molecular Genetics and Metabolism Reports* is a peer reviewed, open access journal that publishes reports describing investigations that use the tools of *biochemical genetics* and *molecular genetics* for studies of normal and disease states.

In addition to brief research articles, sequence reports, case reports and letters to the editor are considered.

Research Areas include:

- Newborn Screening and Diagnosis of Inherited Metabolic Diseases
- Clinical Management and Treatment of Inborn Errors of Metabolism
- Normal and Pathogenic Functioning Related to Biochemical Genetic Disease
- Biochemical Studies of Primary and Secondary Enzyme Defects
- Thresholds, Moonlighting Functions of Proteins and Biochemical Network Modules
- Intercellular and Intracellular Metabolic Relationships

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INTRODUCTION

Molecular Genetics and Metabolism Reports is an open access journal that publishes molecular and metabolic reports describing investigations that use the tools of biochemistry and molecular biology for studies of normal and diseased states. In addition to original research articles, sequence reports, brief communication reports and letters to the editor are considered.

Research Areas include:

• **Inherited Metabolic Diseases:**
  - Biochemical studies of primary enzyme defects
  - Molecular genetic analyses of mutations
  - Pathogenesis of these disorders, including not only primary but also secondary metabolic alterations
• **Systems Biology:**
  - Functional integration of biochemical network modules
  - Moonlighting functions of proteins
• **Intercellular** and **Intracellular Metabolic Relationships:**
  - Biochemical interactions between cells
  - Functional roles of and interactions between subcellular compartments and distinct regions within these cellular spaces, termed microcompartments
  - Metabolic relations between individual enzymes and pathways
• **Cellular Catalysts:**
  - Protein and nonprotein catalyst in normal and deranged cellular metabolism
  - Relationships between the structure and function of catalytic molecules
  - Interaction of these catalysts with other cellular components
• **Disease Pathogenesis:**
  - Underlying mechanisms of inherited and acquired diseases
  - Relationships between genotype and phenotype at the biochemical and molecular levels
• **Treatment:**
  - Drug, protein and dietary interventions
  - Transplantation and gene therapy

**Types of paper**

In addition to original research articles, occasional minireviews reporting timely advances as well as brief communications and letters to the editor are considered.

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