



MOLECULAR GENETICS AND METABOLISM

Official journal of the [Society for Inherited Metabolic Disorders](#)

AUTHOR INFORMATION PACK

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ISSN: 1096-7192

DESCRIPTION

Molecular Genetics and Metabolism contributes to the understanding of the metabolic and molecular basis of disease. This peer reviewed journal publishes articles describing investigations that use the tools of **biochemical genetics** and **molecular genetics** for studies of normal and disease states in humans and animal models.

In addition to original research articles, minireviews reporting timely advances and commentaries providing novel insights 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

AUDIENCE

Molecular geneticists, biochemical geneticists, endocrinologists, metabolists, biochemists, molecular biologists

IMPACT FACTOR

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INTRODUCTION

Molecular Genetics and Metabolism is a contribution to the understanding of the metabolic basis of disease. The journal publishes articles describing investigations that use the tools of biochemistry and molecular biology for studies of normal and diseased states.

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
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 - 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
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 - 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
 - Multicenter clinical trials
 - Pharmacogenetics / Pharmacogenomics

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R. Dorfman, A. Sandford et al., Complex two-gene modulation of lung disease severity in children with cystic fibrosis, *J. Clin. Invest.* 118 (2008) 1040-1049,
<http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2248329>.

K.M. Dipple, E.R.B. McCabe, Modifier genes convert "simple" Mendelian disorders to complex traits, *Mol. Genet. Metab.* 71 (2000) 43-50.

K.M. Dipple, E.R.B. McCabe, Phenotypes of patients with "simple" Mendelian disorders are complex traits: Thresholds, modifiers, and systems dynamics. *Am. J. Hum. Genet.* 66 (2000) 1729-1735.

K.M. Dipple, J.K. Phelan, E.R.B. McCabe, Consequences of complexity within biological networks: Robustness and health, or vulnerability and disease. *Mol. Genet. Metab.* 74 (2001) 45-50.

C.R. Scriver, P.J. Waters, Monogenic traits are not simple: Lessons learned from phenylketonuria. *Trends Genet.* 15 (1999) 267-272.

J. Vockley, P. Rinaldo, M.J. Bennett, G.D. Vladutiu, Synergistic heterozygosity: Disease resulting from multiple partial defects in one or more metabolic pathways. *Mol. Genet. Metab.* 71 (2000) 10-18.

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[2] Van der Geer, J., Hanraads, J.A.J., Lupton, R.A., 2018. The art of writing a scientific article. *Heliyon*. 19, e00205. <https://doi.org/10.1016/j.heliyon.2018.e00205>.

Reference to a book:

[3] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[4] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age, E-Publishing Inc.*, New York, 2009, pp. 281–304.

Reference to a website:

[5] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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