

Special Issue

Genetics of Newborn Screening

Message from the Guest Editors

Newborn screening (NBS) is an important and critical public health program aimed at identifying functional disorders (genetic, metabolic, hormonal, and others) in newborns early in life. The genetics of NBS involve the detection of genetic disorders by identifying the genetic variations that indicate a higher risk for certain conditions. These disorders can be inherited in different ways, including autosomal recessive, autosomal dominant, X-linked, or mitochondrial inheritance patterns. Some common genetic disorders that NBS tests for are Phenylketonuria (PKU), cystic fibrosis, congenital hypothyroidism, sickle cell disease, galactosemia, spinal muscular atrophy, and many others. With recent advancements in technologies like high throughput DNA sequencing, so-called Next Generation Sequencing (NGS), it is possible to screen for a broader range of childhood-onset genetic conditions, many of which have not been routinely screened, with higher accuracy and efficiency. This Special Issue will cover the past, present, and future widespread genetic landscape of NBS.

Guest Editors

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

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