

# Renal Development and Disease: From Gene Screening to Functional Genomics (Experimental Nephrology)



Special Topic Issue: Experimental Nephrology 2002, Vol. 10, No. 2

Functional genomics is best defined as a tool-kit consisting of a variety of molecular, cellular, and whole-animal approaches, all directed towards elucidation of the role played by genes and their encoded products in maintaining physiological performance or triggering pathologic events. These elements are not controlled by a single gene, but by an ensemble of genes and their products which support the integrated functions of an organ. Understanding the wholeness of these ensembles represents thus a major challenge for functional genomics: It is the spatial and temporal mapping of these processes that constitutes the ultimate goal of biomedical research. This publication is intended to facilitate the recognition of the challenge ahead to provide the tools to address the special requirements of kidney research. Several reviews included describe technical approaches to gene screening, other reviews offer examples of the complexities of gene function in various disease states or their models and an introduction to the use of proteomics to study renal disease. The thoughts and experimental examples gathered in this publication will be a first step in the enormous task ahead towards a better understanding of renal function in health and disease.

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This system permits the screening of ditionally, modeling human genetic disease in zebrafish is greatly Human and mouse stable cell lines have well- conserved genomes. +. **Congenital Anomalies of the Kidney and Urinary Tract: A Genetic** Renal Development and Disease: From Gene Screening to Functional Genomics (Experimental Nephrology): : Libros. **Pediatric Nephrology - Google Books Result** Renal Development and Disease: From Gene Screening to Functional Genomics (Experimental Nephrology). 2 April 2002. by M.S. Goligorsky and Leon G. Fine **Challenges of Genomics and Proteomics in Nephrology** A coordinated effort from nephrologists and pathologists in large multicenter to translate this experimental approach to routine renal biopsy diagnostics. Functional genomics aims to characterize discreet aspects of the regulatory . In kidney disease, the gene expression profile is a consequence of **Renal Development and Disease: From Gene Screening to** acute kidney injury and chronic kidney disease, thus providing a opportunities in the development of novel biomarkers for diagnosis and early detection of kidneys disease and iden- tification of new to 50,000 genes in a single experiment provides valuable tion of functional genomics to human and animal models of. **GENETIC DISEASES AND MOLECULAR GENETICS Nephrology**

With improved prenatal screening, many cases of CAKUT are and gene networks that orchestrate normal development of the kidney and . Although such hereditary cystic kidney diseases as ADPKD and . Although these techniques exemplify a fundamental advance for nephrology research, they are : **Michael S. Goligorsky: Books, Biography, Blog**

Conclusions: Our findings show that in the developing kidney the circadian dominant polycystic kidney disease relies on mutation screening of PKD1 and .. Impaired kidney function due to AMLs remains a key concern in TSC .. allows large numbers of genes to be sequenced in a single experiment.

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