Annotating New Genes: From in Silico Screening to Experimental Validation (Woodhead Publishing Series in Biomedicine)

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In recent years, a number of academic and commercial software packages and databases have been developed for the analysis and screening of biological data; however, the usability of these data is compromised by so-called novel genes to which no biological function is assigned. Annotating new genes outlines an approach to the analysis of evolutionary-conserved, heart-enriched genes with unknown functions, offering a step-by-step description of the procedure from screening to validation. The book begins by offering an introduction to the databases and software available, before moving on to cover programming guidelines, including a specific case study on the use of C-It for in silico screening. The second half of the book offers a step-by-step guide to experimental validation concepts and procedures, as well as an overview of additional potential applications of this approach in the field of stem cells and tissue regeneration, before a concluding chapter summarises the concepts and theories presented.

- Focuses not only on screening but also on biological validations
- Provides details of databases and software (web interface) products for biologists with minimal computation skills
- Offers a step-by-step outline of the procedure involved

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