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Culture of Animal Cells

A MANUAL OF BASIC TECHNIQUE

R. Ian Freshney

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R. Ian Freshney



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Freshney's Culture of Animal Cells Amanda Capes-Davis, R.

Ian Freshney, 2021-03-17 FRESHNEY'S CULTURE OF ANIMAL CELLS THE NEW EDITION OF THE LEADING TEXT ON THE BASIC METHODOLOGY OF CELL CULTURE FULLY UPDATED TO REFLECT NEW APPLICATIONS INCLUDING IPSCS CRISPR AND ORGAN ON CHIP TECHNOLOGIES Freshney's Culture of Animal Cells is the most comprehensive and up to date resource on the principles techniques equipment and applications in the field of cell and tissue culture Explaining both how to do tissue culture and why a technique is done in a particular way this classic text covers the biology of cultured cells how to select media and substrates regulatory requirements laboratory protocols aseptic technique experimental manipulation of animal cells and much more The eighth edition contains extensively revised material that reflects the latest techniques and emerging applications in cell culture such as the use of CRISPR Cas9 for gene editing and the adoption of chemically defined conditions for stem cell culture A brand new chapter examines the origin and evolution of cell lines joined by a dedicated chapter on irreproducible research its causes and the importance of reproducibility and good cell culture practice Throughout the book updated chapters and protocols cover topics including live cell imaging 3D culture scale up and automation microfluidics high throughput screening and toxicity testing This landmark text Provides comprehensive single volume coverage of basic skills and protocols specialized techniques and applications and new and emerging developments in the field Covers every essential area of animal cell culture including lab design disaster and contingency planning safety bioethics media preparation primary culture mycoplasma and authentication testing cell line characterization and cryopreservation training and troubleshooting Features a wealth of new content including protocols for gene delivery iPSC generation and culture and tumor spheroid formation Includes an updated and expanded companion website containing figures artwork and supplementary protocols to download and print The eighth edition of Freshney's Culture of Animal Cells is an indispensable volume for anyone involved in the field including undergraduate and graduate students clinical and biopharmaceutical researchers bioengineers academic research scientists and managers technicians and trainees working in cell biology molecular biology and genetics laboratories

Culture of Animal Cells Jan R. Freshney, 1987 Culture of Animals Cells R. Ian Freshney, 1987 **Culture of Animal Cells** R. Ian Freshney, 1987-08-17 This updated and expanded edition of a classic text allows novices and experienced researchers alike to apply both basic and sophisticated techniques of tissue culture Coverage helps readers assess the role of cell cultures as models for in vivo processes while expanded descriptions of protocols in areas of new technology and descriptions of improved serum free media enables them to perform a wide range of specialized procedures without conducting additional research New to this edition is coverage of induction of differentiation the transformed phenotype cytotoxicity and viability assays culture of tumor tissue from animals and humans and three dimensional culture systems including organotypic and histotypic cultures Also includes a glossary an international list of cell banks an extensive listing of reagents and commercial suppliers and over 600 literature references

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examining how cells function regulate their own behavior and interact with their neighbors This book the first in a series of five comprehensive methods handbooks covers key protocols in this dynamic field including cellular organelles cell growth and division cell movement cell signaling and cell death Because molecular biology approaches are widely used in cell biology a few essential techniques from that field are also included **The Anatomical Record** ,1927 Issues for 1906 include the proceedings and abstracts of papers of the American Association of Anatomists formerly the Association of American Anatomists 1916 60 the proceedings and abstracts of papers of the American Society of Zoologists *Surgical Management of Vitiligo* Somesh Gupta,Dr. Mats J. Olsson,Amrinder J. Kanwar,Jean-Paul Ortonne,2006-11-22 Although vitiligo has traditionally been very difficult to treat a new breakthrough surgical treatment is expanding options for practitioners and patients Standard treatments depend on the severity of the condition and the patient s feelings of disfigurement Cover up cosmetics work well for some people Other more sophisticated forms of treatment include gradually developing color back in the depigmented areas repigmentation by PUVA or other ultraviolet light treatments but this is extremely slow and intensive often requiring several hundred treatments This new form of treatment which involves surgically transplanting melanocytes into the white areas is most successful in patients with stable vitiligo over less than 30% of their body surface area It complements medical therapies in achieving complete and sustained repigmentation and is rapidly gaining popularity in all major centers This is the first book available which describes this major advance in detail Explains the new treatment of surgically transplanting melanocytes into the affected areas of the skin to provide dermatologists and surgeons with the latest state of the art information Written by the international leaders who pioneered this treatment Presents all the latest information on the topic eliminating the need to search through multiple sources for specific data **Gamete Research** ,1989

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