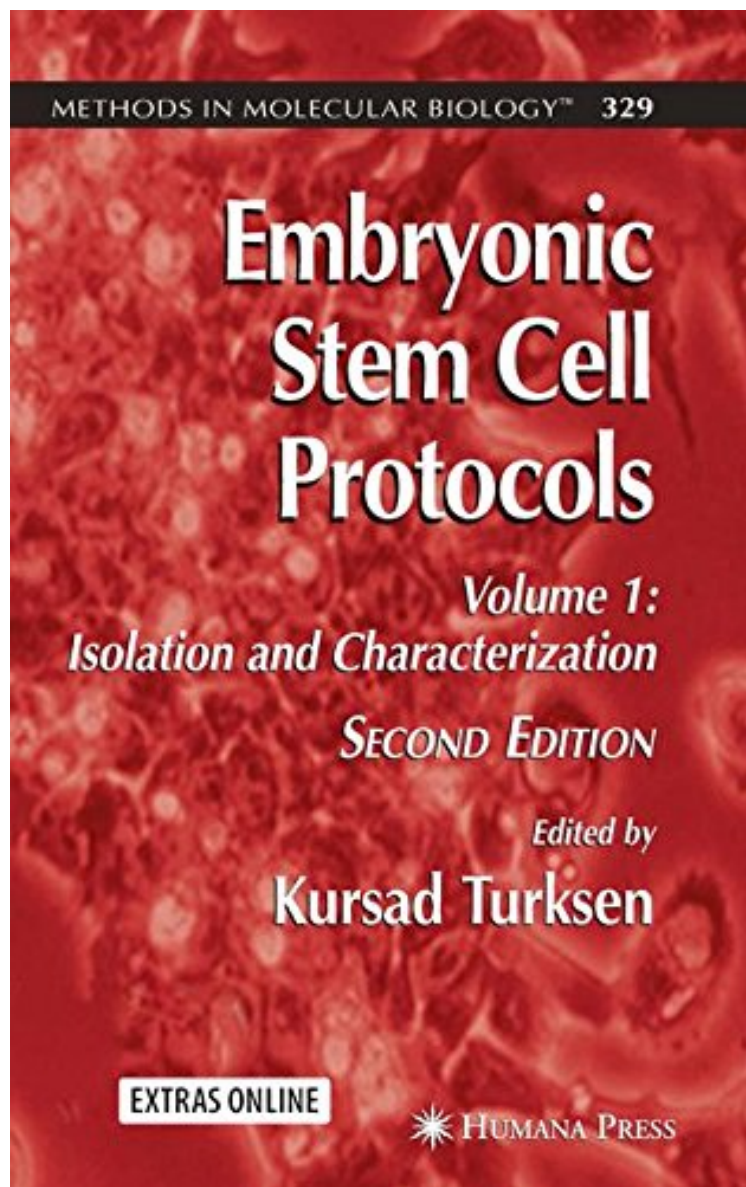


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all praised Embryonic Stem Cell Protocols: Volume I: Isolation and Characterization (Methods in Molecular Biology):

Now in two volumes, this completely updated and expanded edition of Embryonic Stem Cells: Methods and Protocols provides a diverse collection of readily reproducible cellular and molecular protocols for the manipulation of nonhuman embryonic stem cells. Volume one, Embryonic Stem Cell Protocols: Isolation and Characterization, Second Edition, provides a diverse collection of readily reproducible cellular and molecular protocols for the isolation, maintenance, and characterization of embryonic stem cells. The second volume, Embryonic Stem Cell Protocols: Differentiation Models, Second Edition, covers state-of-the-art methods for deriving many types of differentiating cells from ES cells. Together, the two volumes illuminate for both novices and experts our current understanding of the biology of embryonic stem cells and their utility in normal tissue homeostasis and regenerative medicine applications.

From s of the First Edition..."...elegantly introduces tremendous methods and protocols in ES studies...one of the most useful books that I have ever read in this field..." -Cell Biology International"...highly valuable for any scientist who wants to make a start in the exciting field but also for experienced ES cell researchers who want to widen their repertoire" -Diabetologia"...a very informative resource for any developmental or cell biologist with an interest in developments and prospects of ES cell research" -Molecular Biotechnology "...a useful companion volume to other more specialized ES cell books..." -Nature Cell Biology

From the reviews of the second edition:"Volume 1 describes methods for stem cell isolation and characterization. written for basic science and clinical researchers interested in cellular and developmental biology, biochemistry, and molecular biology. Biomedical researchers interested in bioengineering, gene therapy, oncology, and regenerative medicine will also appreciate the methods described here. The protocols are typically organized around specific research questions, and numerous examples of research findings are presented. a welcome resource for research scientists interested in stem cell biology." (Bruce A Fenderson, Doodys Service, July, 2006)

From the Back Cover

Drawing on the dramatically increasing research on embryonic stem (ES) cell biology and differentiation, Kursad Turksen has completely updated and expanded his highly acclaimed first edition of Embryonic Stem Cells: Methods and Protocols into two volumes. Focusing on ES cells recently isolated from different nonhuman species, volume one of Embryonic Stem Cell Protocols: Isolation and Characterization, Second Edition, provides a diverse collection of readily reproducible cellular and molecular protocols for the isolation, maintenance, and characterization of embryonic stem cells. A companion second volume, Embryonic Stem Cell Protocols: Differentiation Models, Second Edition, covers state-of-the-art methods for deriving many types of differentiating cells from ES cells. The protocols follow the successful Methods in Molecular Biology series format, each offering step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, the two volumes of Embryonic Stem Cells illuminate for both novices and experts not only our current understanding of the biology of embryonic stem cells and their utility in normal tissue homeostasis and regenerative medicine applications, but also provide detailed accounts of the tools required for successful work in the area.