

# RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells: Methods, Protocols, and Applications, ISSN 1064-3745, ISSN 1064-3745. 261 pages. Humana Press, 2010.

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Recent stem cell research has revealed that miRNA and RNAi-mediated gene regulation is one of the vital determinates controlling the state of cell differentiation, with the small RNAs serving as key elements involved in regulatory network control of pluripotent cell fate determination. In RNAi and. Divided into three sections, the book first gives a brief introduction to RNAi and miRNAs in stem cells, with a focus on the current status of research and future perspectives, then it continues with detailed methods and protocols for RNAi screening, transfection, and the knockdown of specific genes and pathways in several animal species, including humans and mice, concluding with a section on. Start by marking "RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells: Methods, Protocols, and Applications" as Want to Read: Want to Read saving. Currently Reading. Read. RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells by Baohong Zhang. Other editions. Want to Read saving. Error rating book. Let us know what's wrong with this preview of RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells by Baohong Zhang. Problem: It's the wrong book It's the wrong edition Other. To ask other readers questions about RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells, please sign up. Be the first to ask a question about RNAi and MicroRNA-Mediated Gene Regulation in Stem Cells. Lists with This Book. This book is not yet featured on Listopia. A recessive genetic screen for components of the RNA interference pathway in mouse embryonic stem cells / Melanie I Trombly and Xiaozhong Wang. Construction and application of random dsRNA interference library for functional genetic screens in embryonic stem cells / Xiaoxing Cheng and Rui Jian. Establishing efficient siRNA knockdown in stem cells using fluorescent oligonucleotides / Stephen W. Chen and Steve K.W. Oh. Loss-of-function studies in mouse embryonic stem cells using the pHYPER shRNA plasmic vector / Soizik Berlivet, Martin Houliard, and Matthieu GÃ©rard. Regulation and/or repression of ISSN 1064-3745 ISSN 1940-6029 (electronic) Methods in Molecular Biology ISBN 978-1-4939-9169-3 ISBN 978-1-4939-9170-9 (eBook) <https://doi.org/10.1007/978-1-4939-9170-9> Library of Congress Control Number: 2019933103 © Springer Science+Business Media, LLC, part of Springer Nature 2019 Open Access Chapter 3 is licensed under the terms of the Creative Commons Attribution 4.0 International License. 12. Contents. Editing the Genome of Human Induced Pluripotent Stem Cells Using CRISPR/Cas9 Ribonucleoprotein Complexes. . . Yonglun Luo (ed.), CRISPR Gene Editing: Methods and Protocols, Methods in Molecular Biology, vol. 1961, [https://doi.org/10.1007/978-1-4939-9170-9\\_1](https://doi.org/10.1007/978-1-4939-9170-9_1), © Springer Science+Business Media, LLC, part of Springer Nature 2019. 3. 4.