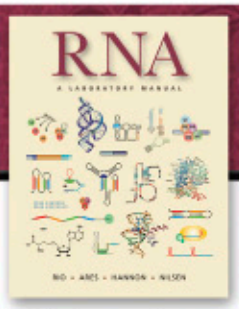

RNA A LABORATORY MANUAL

By Donald C. Rio, *University of California, Berkeley*; Manuel Ares, Jr., *University of California, Santa Cruz*; Gregory J. Hannon, *Cold Spring Harbor Laboratory*; and Timothy W. Nilsen, *Case Western Reserve University School of Medicine*

RNA molecules participate in and regulate a vast array of cellular processes, and the scientific community is now entering a new era in which some aspect of RNA biology—as a tool, a therapeutic, a diagnostic, or part of a fundamental process—is becoming increasingly important. But initiating RNA research can be intimidating, and without a thorough understanding of the challenges and complexities inherent in handling this fragile nucleic acid, forays into the RNA world can be quite frustrating. *RNA: A Laboratory Manual* provides a broad range of up-to-date techniques so that any investigator can confidently handle RNA and carry out meaningful experiments, from the most basic to the most sophisticated. Originating in four of the field's most prominent laboratories and written with novices as well as more advanced researchers in mind, this manual provides the necessary background and strategies for approaching any RNA investigation in addition to detailed step-by-step protocols and extensive tips and troubleshooting information. *RNA: A Laboratory Manual* will enable any researcher to approach a wide variety of RNA-related problems with confidence and a high expectation of success.

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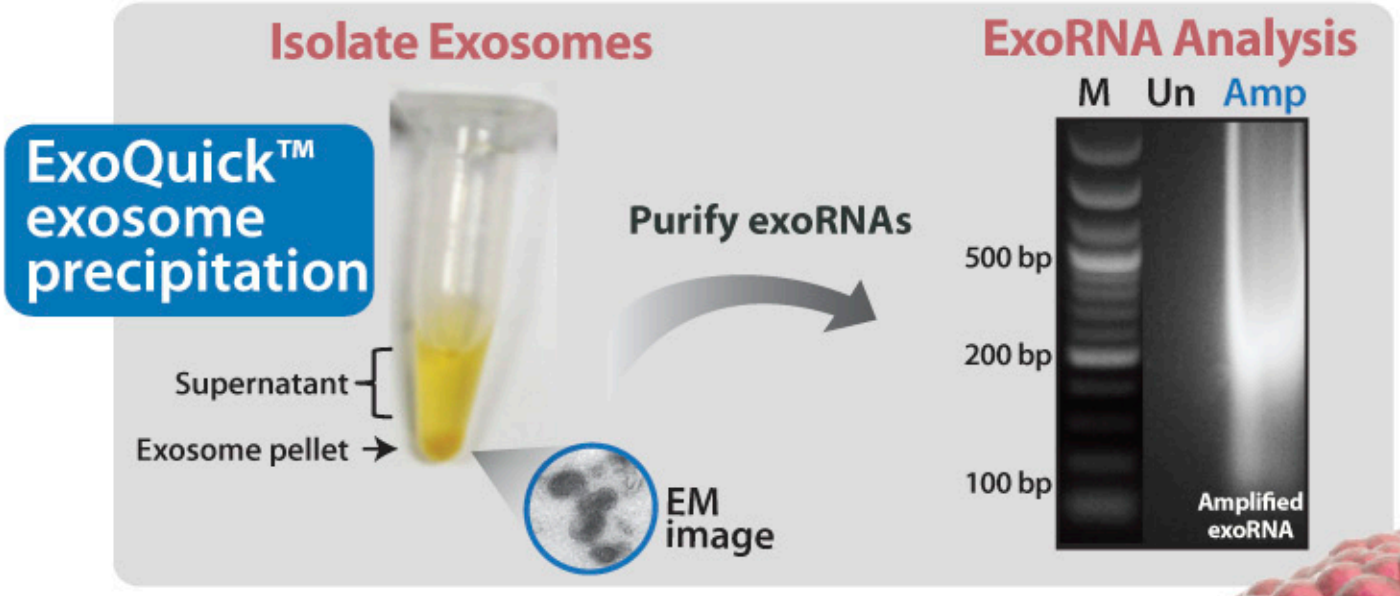

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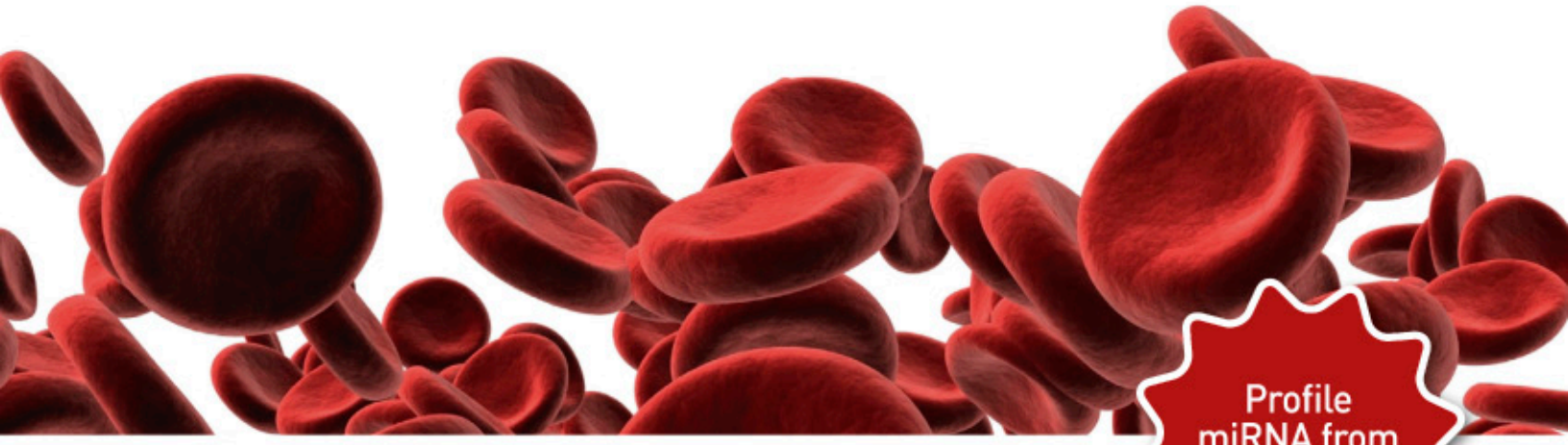

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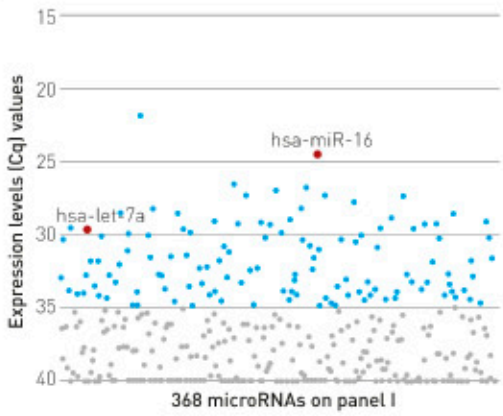

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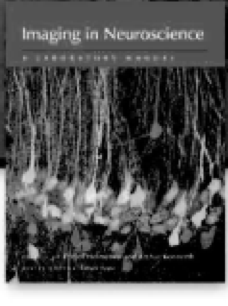

Imaging in Neuroscience

A Laboratory Manual

Edited by Fritjof Helmchen, *Brain Research Institute, University of Zurich, Switzerland,* and Arthur Konnerth, *Institute for Neurosciences, Technical University Munich, Germany;* Series Editor, Rafael Yuste, *Howard Hughes Medical Institute, Columbia University*

As imaging technologies have revolutionized research in many areas of biology and medicine, neuroscientists have often pioneered the use of these new visualization techniques. *Imaging in Neuroscience: A Laboratory Manual,* part of Cold Spring Harbor Laboratory Press' *Imaging* series, provides the definitive collection of methods in use in this groundbreaking field. With over 90 chapters, the manual offers a depth of coverage unavailable from any other source. Sections focus on imaging at the molecular level, axons and nerve terminals, spines and dendrites, neurons and circuits in vitro, neurons and circuits in vivo, glia, brain dynamics, and behavior and brain pathology. Protocols range from basic techniques such as maintaining live cells and tissue slices during imaging to recent breakthroughs in optogenetics, uncaging, calcium imaging and imaging neuronal activity. *Imaging in Neuroscience: A Laboratory Manual* is an essential guide to discovering and implementing these techniques in the neuroscience laboratory.

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Positions for Faculties, postdocs, and graduate students in RNA Nanotechnology

Positions for two Research Assistant Professors, five postdoctoral fellows and several graduate students in RNA Nanotechnology are available to study the mechanism of RNA nanoparticle assembly and their medical applications (Guo P. The Emerging Field of RNA Nanotechnology, *Nature Nanotecnology*, 2010, 5:833).

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Send CV to Peixuan Guo at
guop@purdue.edu

Yale University School of Medicine
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The Department of Genetics at Yale University School of Medicine is seeking to hire a tenure-track faculty member to develop a strong research program in genome informatics. We are particularly interested in candidates seeking to develop novel approaches to analyze next generation sequencing data from a broad range of biological sources. The rank of the successful applicant will be commensurate with experience.

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We strongly encourage applications from women and minority candidates. Curriculum vitae, a concise statement of research plans, and three letters of recommendation should be sent electronically and with hard copy to:

Richard P. Lifton, M.D., Ph.D.
Chairman Department of Genetics
Yale University School of Medicine
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- Strong background in molecular and cell biology, with experience in cancer research. Familiarity with RNAi assays and confocal microscopy will be highly valued.
- Enthusiasm for science and capacity to work independently and to drive a scientific project to conclusion.
- Good knowledge of English.

Applicants should send by e-mail a brief cover letter summarizing research interests and goals, full curriculum vitae and the names and addresses of two references to Dr. Patrick Aloy: patrick.aloy@irbbarcelona.org

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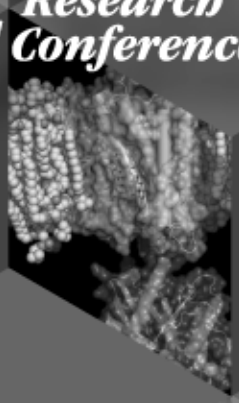
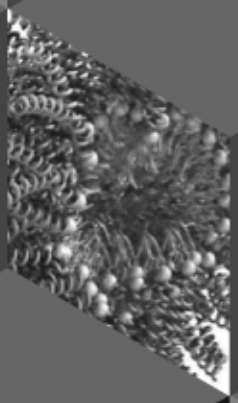




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