



## Contents

### TOPIC INTRODUCTIONS

- Imaging Intracellular Signaling Using Two-Photon Fluorescent Lifetime Imaging Microscopy** 1121  
Ryohei Yasuda  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.top072090
- Estimating Volume in Biological Structures** 1129  
Mark J. West  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.top071787

### PROTOCOLS

- The Best Laid Plans: Analyzing Courtship Defects in *Drosophila*** 1140  
Stephen F. Goodwin and Kevin M.C. O'Dell  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot071647
- CLIP (Cross-Linking and Immunoprecipitation) Identification of RNAs Bound by a Specific Protein** 1146  
Robert Darnell  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot072132
- Two-Photon Sodium Imaging in Dendritic Spines** 1161  
Christine R. Rose  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot072074
- In Vivo Imaging of the Developing Neuromuscular Junction in Neonatal Mice** 1166  
Stephen G. Turney, Mark K. Walsh, and Jeff W. Lichtman  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot072082
- Lymphangiography of the Mouse Tail** 1177  
Rakesh K. Jain, Lance L. Munn, and Dai Fukumura  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot072108
- Lymphangiography of the Mouse Ear** 1179  
Rakesh K. Jain, Lance L. Munn, and Dai Fukumura  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot072116
- In Vitro Transcription of Labeled RNA: Synthesis, Capping, and Substitution** 1181  
Timothy W. Nilsen and Donald C. Rio  
*Cold Spring Harb Protoc*; 2012; 10.1101/pdb.prot072066

<b>Removing rRNA from Deproteinized, Phenol-Extracted Total RNA by Enzymatic Digestion</b>	<b>1187</b>
Timothy W. Nilsen <i>Cold Spring Harb Protoc</i> ; 2012; 10.1101/pdb.prot072124	
<b>Objective-Type Total Internal Reflection Microscopy (Excitation) for Single-Molecule FRET</b>	<b>1189</b>
Chirlmin Joo and Taekjip Ha <i>Cold Spring Harb Protoc</i> ; 2012; 10.1101/pdb.prot072025	
<b>Objective-Type Total Internal Reflection Microscopy (Emission) for Single-Molecule FRET</b>	<b>1192</b>
Chirlmin Joo and Taekjip Ha <i>Cold Spring Harb Protoc</i> ; 2012; 10.1101/pdb.prot072033	

## INFORMATION PANEL

<b>Sample Processing Considerations for Detecting Copy Number Changes in Formalin-Fixed, Paraffin-Embedded Tissues</b>	<b>1195</b>
Sharoni Jacobs <i>Cold Spring Harb Protoc</i> ; 2012; 10.1101/pdb.ip071753	
<b>Data Analysis Considerations for Detecting Copy Number Changes in Formalin-Fixed, Paraffin-Embedded Tissues</b>	<b>1203</b>
Sharoni Jacobs <i>Cold Spring Harb Protoc</i> ; 2012; 10.1101/pdb.ip071761	

**Cover Illustration:** In this issue, Turney and colleagues (doi: 10.1101/pdb.prot072082) provide a protocol for imaging developing neuromuscular junctions in living mice. The four panels show (from *left to right, top to bottom*): original confocal image of a dually innervated neuromuscular junction at postnatal day 8 (each axonal input expressing cyan fluorescent protein [CFP] and yellow fluorescent protein [YFP]); confocal image of smaller “red” input (bleaching down fluorescence in larger “yellow” input transiently); confocal image after refilling (bleaching YFP in larger input to change its color to green); and confocal image of the same neuromuscular junction a day later. CFP and YFP (pseudo-colored green and red, respectively) were expressed cytoplasmically in all motor neurons. The expression level of each varied independently from cell to cell. Acetylcholine receptors were lightly labeled with alexa-647  $\alpha$ -bungarotoxin (pseudo-colored blue). Fluorescence recovery after photobleaching (refilling) occurred within a few minutes. The combination of multi-color labeling and selective photobleaching facilitates studying of changes in the spatial relationship between inputs over time. Images courtesy of Stephen Turney and Jeff Lichtman.

## General Cautions

The methods in this issue should be used by laboratory personnel with experience in laboratory and chemical safety or students under the supervision of such trained personnel. The procedures, chemicals, and equipment referenced in this issue are hazardous and can cause serious injury unless performed, handled, and used with care and in a manner consistent with safe laboratory practices. Students and researchers using the procedures in this issue do so at their own risk. It is essential for your safety that you consult the appropriate Material Safety Data Sheets, the manufacturers' manuals accompanying equipment, and your institution's Environmental Health and Safety Office, as well as the **General Safety and Disposal Cautions** (see [www.cshprotocols.org/cautions](http://www.cshprotocols.org/cautions)), for proper handling of hazardous materials described in these articles. Cold Spring Harbor Laboratory makes no representations or warranties with respect to the material set forth in these articles and has no liability in connection with the use of these materials.

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