

## Contents

### TOPIC INTRODUCTIONS

<b>In Vitro Investigation of Synaptic Plasticity</b>	491
Therese Abrahamsson, Txomin Lalanne, Alanna J. Watt, and P. Jesper Sjöström	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.top087262	
<b>Strategies for Assaying Lysosomal Membrane Permeabilization</b>	494
Urška Repnik, Maruša Hafner Česen, and Boris Turk	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.top077479	
<b>Multipurpose Transposon-Insertion Libraries in Yeast</b>	499
Anuj Kumar	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.top080259	
<b>Intrinsic Optical Imaging of Functional Map Development in Mammalian Visual Cortex</b>	503
Tobias Bonhoeffer and Mark Hübener	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.top089383	

### PROTOCOLS

<b>Cell Cycle Synchronization of <i>Schizosaccharomyces pombe</i> by Centrifugal Elutriation of Small Cells</b>	508
Iain M. Hagan, Agnes Grallert, and Viesturs Simanis	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091231	
<b>Cell Cycle Synchronization of <i>Schizosaccharomyces pombe</i> by Lactose Gradient Centrifugation to Isolate Small Cells</b>	516
Iain M. Hagan, Agnes Grallert, and Viesturs Simanis	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091249	
<b>Analyzing <i>Schizosaccharomyces pombe</i> DNA Content by Flow Cytometry</b>	520
Erik Boye, Silje Anda, Christiane Rothe, Trond Stokke, and Beáta Grallert	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091280	
<b>CRISPR–Cas9 Genome Engineering in <i>Saccharomyces cerevisiae</i> Cells</b>	525
Owen W. Ryan, Snigdha Poddar, and Jamie H.D. Cate	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot086827	

<b>Using Yeast Transposon-Insertion Libraries for Phenotypic Screening and Protein Localization</b>	534
Anuj Kumar	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot085217	
<b>Exploratory Analysis of Biological Networks through Visualization, Clustering, and Functional Annotation in Cytoscape</b>	541
Anastasia Baryshnikova	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot077644	
<b>Chromatin and Cell Wall Staining of <i>Schizosaccharomyces pombe</i></b>	549
Iain M. Hagan	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091025	
<b>Staining Fission Yeast Filamentous Actin with Fluorescent Phalloidin Conjugates</b>	554
Iain M. Hagan	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091033	
<b>Studying Lysosomal Membrane Permeabilization by Analyzing the Release of Preloaded BSA–Gold Particles into the Cytosol</b>	558
Urška Repnik, Maruša Hafner Česen, and Boris Turk	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot087122	
<b>Long-Term Potentiation by Theta-Burst Stimulation Using Extracellular Field Potential Recordings in Acute Hippocampal Slices</b>	564
Therese Abrahamsson, Txomin Lalanne, Alanna J. Watt, and P. Jesper Sjöström	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091298	
<b>Using Multiple Whole-Cell Recordings to Study Spike-Timing-Dependent Plasticity in Acute Neocortical Slices</b>	573
Txomin Lalanne, Therese Abrahamsson, and P. Jesper Sjöström	
<i>Cold Spring Harb Protoc</i> ; 2016; 10.1101/pdb.prot091306	

**Cover Illustration:** A 3D representation of recorded neurons filled with Alexa 594 (see doi: 10.1101/pdb.prot091306). In this issue, Jesper Sjöström and colleagues present methods for exploring synaptic plasticity. Image acquired by Txomin Lalanne, Sjöström Laboratory.

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