




Aug 09, 2022

2021 Featured Protocols

protocols.io team¹¹protocols.io1 *Works for me* Share

This collection is published without a DOI.



Lenny Teytelman
protocols.io

ABSTRACT

This is a growing collection that includes all protocols that were featured in 2021 on our [welcome page](#) and on social media ([Twitter](#), [Facebook](#)).

Every week, we feature 3 new protocols that are particularly fantastic examples of reproducible and detailed method sharing. (Please note that there are many weeks where we would love to highlight dozens of public protocols instead of three!)

COLLECTION CITATION

protocols.io team 2022. 2021 Featured Protocols. **protocols.io**
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May 25, 2021

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Aug 09, 2022

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ABSTRACT



This is a growing collection that includes all protocols that were featured in 2021 on our [welcome page](#) and on social media ([Twitter](#), [Facebook](#)).



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

where we would love to highlight dozens of public protocols instead of three!)



FILES



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

Analysis of protein structure using Molprobit
Version 3
by Chris Berndsen, James Madison University
- 



Homology modeling using Phyre2 for Biochemistry I
Version 4
by Chris Berndsen, James Madison University
- 


Assessing multiplex tiling PCR sequencing approaches for detecting genomic variants of SARS-CoV-2 in municipal wastewater
Version 1
by Xuan Lin
- 



MarineSediment-BlueC-eDNA
Version 1
by Marc Anglès d'Auriac, Norwegian Institute for Water Research
- 



Concentration of viruses from sewage using HA filters
Version 4
by McLellan Lab
- 



Structure-from-motion multi-view photogrammetry applied to linear-scan sediment cores images
Version 2
by Kevin Jacq, Université Rouen Normandie
- 



Biolayer Interferometry for DNA-Protein Interactions
Version 1
by John K Barrows, Department of Chemistry and Biochemistry, Kennesaw State University
- 



Sample collection and eDNA extraction from Sterivex filter units
Version 1
by Oscar E Chiang
- 



- 




P outlineR: Artefact Processing and Extraction Protocol
Version 1
 by David N Matzig, Department of Archaeology and Heritage Studies, Aarhus University
- 




Protocol for detection of *Salmonella* Typhi and *Salmonella* Paratyphi A in Produce
Version 1
 by etgrill
- 




Mitogenome Assembly from NGS Genome Skimming Data
Version 1
 by Avery S Hiley, UCSD - Scripps Institution of Oceanography
- 



HyDrop-ATAC v1.0
Version 2
 by Florian De Rop, Aerts Lab for Computational Biology
- 




Carrier-assisted One-pot Sample Preparation for Targeted Proteomics Analysis of Small Numbers of Human Cells
Version 1
 by Lili Liang
- 




IMC STAINING FOR PARAFFIN SECTIONS
Version 1
 by Lili Liang
- 




Making E8 medium for ES/iPS culture
Version 1
 by Felix Kraus
- 




Targeted Sequencing by Sanger to Recover Key Mutations in Illumina SARS-CoV-2 Whole-genome Sequences
Version 1
 by James Emmanuel San, Kwazulu-Natal Research and Innovation Sequencing Platform
- 




Human Pancreas Processing for Multiple Applications
Version 1
 by Carrie Romer
- 



- 




Modeling acute visceral pain in adult zebrafish
Version 1
 by Denis Rosemberg
- 




Spectral Flow Phenotyping of CD226 KO CD127⁺ Tregs During Expansion
Version 1
 by Matthew Brown
- 




High molecular weight bacterial DNA extraction from field-collected fecal samples preserved in ethanol for long-read sequencing
Version 1
 by Sophie Teullet, Institut des Sciences de l'Evolution de Montpellier
- 


Accelerated High-Yield Generation of Limb-Innervating Motor Neurons from Human Stem Cells
Version 1
 by hendersa
- 


Profiling metazoan transcription genome-wide with nucleotide resolution using NET-seq (native elongating transcript sequencing)
Version 1
 by Robert ietswaart
- 


Fixation of HeLa-M cells expressing Halo and SNAP fusion proteins conjugated to ligands
Version 1
 by OLIVIA HARDING
- 


Pristionchus Whole Genome Sequence Analysis
Version 1
 by Ray L Hong, California State University, Northridge
- 


🔗 Bioluminescence-based Minimum Inhibitory Concentration (MIC) testing of fungal extracts against Mycobacterium marinum
Version 1
 by Alex Grey
- 


🔗 How to create baseurl for OAI-PMH harvesting with OpenRefine
Version 1
 by Andrea Marchitelli



Deep cleaning COPAS

Version 1

by Bonnie Evans



A method for the temperature-controlled extraction of DNA from ancient bones

Version 1

by Elena Essel



3'-DGE High Throughput RNA Library Preparation

Version 2

by Sarah Boswell, Harvard Medical School



Pseudotyping lentiviral particles with SARS-CoV-2 Spike protein for neutralization assays

Version 2

by Kate Crawford



Keio Screen

Version 1

by Saul Moore



Pseudomonas syringae seed infections

Version 1

by William Rooney, University of Glasgow



Extracting shape and size information from fungal spores

Version 1

by Alexander Ordynets, Universität Kassel



Optimized Derivation of Midbrain Dopaminergic Neurons from iPSCs for research application

Version 1

by Elisangela Bressan, German Center for Neurodegenerative Diseases (DZNE), Tübingen, Germany



Prepare and run test on available dataset

Version 1

by Alexey Zhuravlev



Chlamydomonas reinhardtii nuclear transformation by electroporation

- 


Chlamydomonas reinhardtii nuclear transformation by electroporation.
Version 2
 by Joao Vitor Molino, Ronin Institute
- 


Complete CO-Detection by IndEXing (CODEX) Protocol for FF and FFPE Tissues
Version 1
 by Sachi Krishna
- 


Cytoplasmic pH measurements with pHluorin
Version 1
 by Ekaterina Krasnopeevea
- 


TaqMan Genotyping Assay for Detection of B.1.1.7 SARS-CoV-2
Version 1
 by isaac.bell
- 


☞ Prestwick screen protocol
Version 1
 by Thomas J J. O'Brien, Imperial College London
- 




Daughter of Frankenstein protocol for nuclei isolation from fresh and frozen tissues using OptiPrep® **continuous** gradient
Version 2
 by Luciano G Martelotto, University of Adelaide
- 




General Field Plot Sampling Protocol for DNA-based analyses (2018-2020)
Version 1
 by David Emde, Agriculture and Agri-food Canada
- 




Processing of pediatric bronchoalveolar lavage samples for single cell analysis
Version 1
 by Melanie R Neeland, Murdoch Children's Research Institute
- 

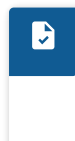
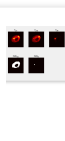

☞ Full-UDG treated double-stranded ancient DNA library preparation for Illumina sequencing
Version 1
 by James A Fellows Yates, Max Planck Institute for Evolutionary Anthropology
- 




Maintenance of Undifferentiated hiPSC Cultures and Differentiation to



- 




Cardiomyocytes on Glass Surfaces
Version 1
by Angelique Nelson
- 




High-throughput Sars-CoV-2 detection from self-collected saline gargle samples
Version 1
by Karl Frontzek
- 



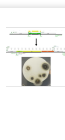
Iodine staining of starch to determine amylose percentage
Version 1
by Chris Berndsen, James Madison University
- 




Fluorescence Recovery after Photobleaching (FRAP) in adult *C. elegans* nuclei
Version 1
by Laura Breimann
- 


Measure Effects of Manufacturing Variations of ENDS on coil Lifetime and Aerosol Generation
Version 1
by Qutaiba Saleh, Rochester Institute of Technology
- 



edX Learner and Course Analytics and Visualization Pipeline
Version 6
by Michael Ginda, Indiana University at Bloomington
- 




Self Pollinating Tobacco
Version 1
by Lynn Doran, Realizing Increased Photosynthetic Efficiency (RIPE)
- 




Assembly Instructions for colosseum
Version 2
by Yeokyoung Kil
- 




Fungal gene knockout with *Agrobacterium tumefaciens* using Gibson assembly
Version 1
by Johannes Wolfram JWD Debler, Curtin University
- 




Preparation of acute midbrain slices for patch clamp recordings



- 



Preparation of acute midbrain slices for patch-clamp recordings
Version 3
 by Oriol Pavon, Sainsbury Wellcome Centre for Neural Circuits and Behaviour
- 




High-Molecular-Weight gDNA extraction protocol from moss gametophytes
Version 1
 by Lei Zhu, University of California, Riverside
- 




Gold nanoparticle synthesis
Version 1
 by James F Curtin, Technological University Dublin
- 


Salmonella spp. detection and isolation
Version 1
 by Enrique Delgado
- 




Whole-genome sequencing of two human rhinovirus A types - A15 and A101
Version 1
 by Martha Luka
- 




ARTIC NEB Tagmentation protocol - high throughput whole genome sequencing of SARS-CoV-2.
Version 1
 by Karan D Bhatt
- 




'Frankenstein' protocol for nuclei isolation from fresh and frozen tissue for snRNAseq
Version 3
 by Luciano G Martelotto, University of Adelaide
- 




Fish eDNA: DNA extraction from water samples filtered through Sterivex filter unit and preserved in buffer
Version 1
 by Cecile Chardon
- 




ANY-maze Protocol (Elevated Plus Maze) v6.2
Version 1
 by Cristina Corral



- 




isolating human malaria parasites for RNA-sequencing at ultra-low densities
Version 1
by Wiebke Nahrendorf
- 




SP3 (Single-Pot, Solid-Phase, Sample-Preparation) Protein Extraction for Dental Calculus
Version 1
by Sandra Hebestreit, Max Planck Institute for the Science of Human History
- 




Seek & Blastn Standard Operating Procedure
Version 1
by Yasunori Park
- 




Geometric Method for Estimating Coral Surface Area Using Image Analysis
Version 1
by Rowan Mclachlan, The Ohio State University
- 


Navigating in UNIX
Version 1
by Anthony Underwood
- 


RNA Extraction of SARS-CoV-2 from Wastewater
Version 1
by Nick Stark, University of North Carolina at Charlotte
- 


Rapid Single-Pot Assembly of Modular Chromatin Proteins for Epigenetic Engineering
Version 1
by Karmella A Haynes, Wallace H. Coulter Department of Biomedical Engineering, Emory University, Atlanta, GA, USA
- 


Western for Brain Punches
Version 1
by Francisco J Ramirez, University of California, San Diego
- 


Anthoceros agrestis (hornwort) transformation v01
Version 1
by Eftychis Frangedakis, University of Cambridge
- 


Isolation of clean single-cell samples for physiological or molecular



experiments (Radiolaria, Acantharia)

Version 2

by Joost S Mansour, University of Arizona



Using polyan: a Python package for modelling polysome profiles from ribosome density data

Version 2

by Tobias von der Haar, University of Kent