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Current Protocols User Guide

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What is Current Protocols?

The Current Protocols collection includes nearly 25,000 step-by-step techniques and procedures that provide researchers with the reliable methods they need to reproducible results and pave the way for scientific discovery. Today we have 17 comprehensive collections ranging from *Essential Laboratory Techniques* for training undergraduate students to resources for developing as a scientist, like our flagship title, *Current Protocols in Molecular Biology*.



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A single Current Protocols article is more than just a protocol: it often includes a collection of related protocols (basic, alternate, support). To make them easy to follow, Current Protocols features numbered steps, flow charts, illustrations, results, recipes, background, explanations, and advice.



What are the benefits?

- **Support:** Using Current Protocols is like having an expert guiding your hand.
- **Confidence:** Our editors evaluate each protocol, so you know these techniques are the best available.
- Efficiency: Each protocol is carefully edited and rich in detail, so you get reliable results on the first try.





Who should use Current Protocols?

Current Protocols is great for institutions with large research programs to keep discovery efficient and consistent. It is also essential for smaller institutions that may lack breadth of expertise in-house so they can build on a larger body of knowledge without wasting time. Students, technicians, and post-docs will find Current Protocols invaluable for their bench work. Lab heads, principal investigators, and department chairs will find Current Protocols useful for grant writing and budgeting, and for planning long-term research projects.

How do I access Current Protocols?

The URL to access Current Protocols is: https://currentprotocols.onlinelibrary.wiley.com/

How do I stay up-to-date?

Current Protocols are reviewed by the editorial board and updated on a regular basis. Running searches regularly and accessing the HTML versions will guarantee you are using the most-up-to-date information. We encourage the use of the HTML or online PDF versions so you will always find the latest version.

Be sure to sign up for alerts by clicking the alerts icon on the menu bar to the right of SPECIAL ISSUES within a specific Current Protocol page.



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How do I use Current Protocols?

1 HOMEPAGE

First, go to: currentprotocols.onlinelibrary.wiley.com

From the homepage, clicking on any topic will allow you to access a particular Current Protocols title. You can also use the dropdown Current Protocols menu to choose a specific title. There are also dropdown menus to explore by subject or by technique, described in more detail below.

Scroll down to see the latest protocols or to browse our "Best of" collection of protocols. You may want search across the entire collection using the search bar at the top of the page.

CURRENT PROTOCOLS \checkmark SUBJECTS \checkmark	TECHNIQUES V FOR AUTH	ORS V RESOURCES V	ABOUT V	<u> </u>
<u>25,000</u> step-by procedures, and pr	-step techniques, actical overviews	View the latest	articles »	
Every Step Counts				
The Current Protocols collection includes ov overviews that provide researchers with rel pave the way for critical scientific discovery. In rich in detail, practical advice, and troubles their research with an efficiency of time and it	lable, efficient methods to ensure With its emphasis on carefully curat hooting, Current Protocols enable	reproducible results and ed, highly edited methods	Volume 1, Is June 2021	
Bioinformatics	> Cell Biology	>	Tweets by @CurrentProtocol	(
Chemical Biology	> Cytometry	>	CP Current Protocols @CurrentProtocol Check out this thread on a recent a	
Essential Lab Techniques	> Food Analytical Ch	emistry >	@CurrentProtocol, "A Neuroscienti by @wmkenkel, @MorGusto, & @ https://twitter.com/wmkenkel/status 6	AnnalieseBeery.
Human Genetics	> Immunology	>	♡ [→	Jun 28, 20
Magnetic Resonance Imaging	> Microbiology	>	Current Protocols Retweeted	2
		Search	٩ دە	gin / Register
	TECHNIQUES V FOR AUTHORS	✓ RESOURCES ✓	About ~	Ø
Current Protocolshtw	Immunology	Pla	nt Biology	
Bioinformatics	Microbiology	Pro	tein Science	
Cell Biology	Molecular Biology	Ste	m Cell Biology	
Chemical Biology	Mouse Biology	Tox	icology	
Cytometry	Neuroscience			
Essential Laboratory Techniques Human Genetics	Nucleic Acid Chemistry Pharmacology			
heir research with an efficiency of time and res	ources.	MORE >>	WALT HE SECOND	
Bioinformatics	Cell Biology	>	Tweets by @CurrentProtocol	()
Chemical Biology	Cytometry	>	Current Protocols Retweeted	y ja

2 LOGGING IN AND REGISTERING

From the homepage, you can also click on **Login/Register** at the top right of the screen.

Registering or creating an account is easy and fast. You will be asked to use an institutional email and confirm that email during the registration process. Further instructions about how to log in and create your account can be found at the **Wiley Online Library training hub**.

Once you've logged in, you can save your favorite protocols for quick and easy access in the future. These will appear in the **Favorites** sections under **My Account** (once you have logged in, you can navigate to it from the top right corner by clicking on your name). You will need to log in to save searches, access saved searches, or set up alerts.







3 SEARCHING ON THE CURRENT PROTOCOLS PLATFORM

The **search bar** at the top of the page will run keyword searches to find all relevant protocols. The results page features a number of **filters** on the left-hand menu.

- Subjects: Use our custom Subject taxonomy to filter your searches. Each top level term can be expanded to narrow down your search results.
- Techniques: Use our custom Techniques taxonomy to filter your searches. Each top level term can be expanded to narrow down your search results. Subject and Techniques filters can be used together to rapidly focus on your research needs.
- Published in: Use this filter to narrow your search results to a particular Current Protocols title (e.g., Current Protocols in Molecular Biology). See 4. Searching Within a Current Protocols Title.
- Publication type: all protocols will appear as "Journals".
- Publication date: you may use this filter to filter by year (last year, last two years, last five years or a custom range of your choice).

Below each protocol listed in your search, you can click **Abstract** to read the abstract while staying on the same page.

There are several different ways to sort your search: either by **relevance** or by **date** (from new to old or old to new).

You can also download citations for all results or selected results, by clicking on **Export citations** and selecting those you want to download.

If you wish to refine your search and be more specific, click on **Refine Search** on the top of the results page. Similar to an advanced search, this will allow you to add limits and additional keywords.









4 SEARCHING WITHIN A CURRENT PROTOCOL TITLE

After you use the search bar at the top of the page to search across all Current Protocols content, you can choose to restrict your results to a particular Current Protocols, as shown in the screenshot at the right.

Advanced Search (available from the search bar) will let you limit the search to author, title, keywords, etc., or to specify a publication date range. You can also click on **Citation Search** to search by citation.

Scientific Lab Instrumentation	1,097	Christina Z. Chung, Corwin Miller, Dieter Soll, Natalie Krahn
Screening and Automation	903	Current Protocols Volume 1, Issue 2
		First published: 10 February 2021
Published in 🔿		Abstract 🗸
Bioinformatics	64	
Cell Biology	105	Production of Disulfide-Bonded Proteins in Escherichia coli
Chemical Biology	51	
Cytometry	41	Na Ke, Mehmet Berkmen
Essential Lab Techniques	31	Current Protocols in Molecular Biology Volume 108, Issue 1
	64	First published: 01 October 2014
Human Genetics	10.00	Collections: Protein Expression
Immunology	100	Abstract 🗸
Microbiology	135	
Molecular Biology	305	
Mouse Biology	8	Introduction
Neuroscience	66	Escherichia coli, Plasmids, and Bacteriophages
Nucleic Acid Chemistry	45	Current Protocols in Molecular Biology Volume 59, Issue 1
Pharmacology	36	First published: 01 August 2002
Plant Biology	20	

You may find more information about these searching modalities in the Wiley Online Library User Guide.

5 EXPLORING THE CURRENT PROTOCOLS COLLECTION

As of 2021, Current Protocols publishes monthly, interdisciplinary issues, while also sorting those articles into their traditional legacy Current Protocols titles. Here, we will illustrate the various ways to browse Current Protocols content.

To see newly published protocols, click the **View the latest articles** button on the homepage. This brings you to the contents of the latest (in-progress issue).

From here, you can scroll to browse the issue. You can view previous issues from the **Browse Articles** dropdown menu.

Click on the **Special Issues** tab to view special collections of protocols. Here you will find protocols in new subject areas and interdisciplinary collections. Current Protocols editors carefully curate the content for each title – inviting the best researchers to share their detailed protocols – with an eye toward creating the comprehensive collection of the most important protocols in the field. Exploring the topics collections provides valuable context – understanding the various methods that can be employed to perform a task or answer a particular research question.





6 EXPLORING A CURRENT PROTOCOLS TITLE

Many readers will want to focus their browsing to a particular Current Protocols legacy title; this is accomplished by clicking on the desired CP title on the homepage – either from the center list or from the Current Protocols dropdown menu.



Clicking on Molecular Biology will take you to the Current Protocols in Molecular Biology page. From here, click on the Browse Articles dropdown menu to either view the latest molecular biology articles, or view the CPMB issue archive.

PROTOCOLS		Applied Filters Oes	- # ×	Articles & Chapters (764)
HOME BROWSE ARTICLES A COLLECTIONS	000	Molecular Biology X		** Expert Citation() PROTOCOL @ PrevAsses
Mole Letter Articles Com First published: 31 December 2017 List updated: 8 March 2021	Get Content alerts Get Access	Subjects A Chemistry Computation & data science Genetics Stimurating	685 215 489 347 543	PROTOCOL @ Frankness Validation of Circular RNAs Using KT-qPCR After Effective Removal of Linear RNAs by Ribonuclease R Martee Vormanna, Natter Vigt, Binderty versees, Steve Lefever, ja Vandcionalete, Preter jan Valders Convent Analose, I Valenet F. Isaan F root pathomadi 07 Joy 2021
Methods for the generation, analysis, and use of combinatorial libraries. Combinatorial libraries are collections of synthetic, chemical, or biological compounds, synthesized by combinatorial chemistry. These can then be screened for biological activities of interest.	PINCIIIS ILANA KONA MILESS Read NEW Guidelines for Cord Blood	Molecular, cell and developmental biology Molecular, cell and developmental moleculars Texnological and texcellings Parts science Translational research & diseases	736 142 175 178 393	PROTOCOL @ InterActions An Easy, Cost-Effective, and Scalable Method to Deplete Human Ribosomal RNA for RNA-seg Amber Bablers, Adam II, Norris, Interlangen Außhrigen County Freedom
Commonly Used Techniques in Biochemistry and Molecular Biology First published: 31 December 2017 Last updated: 8 March 2021	Banks and Cord Blood Banking	Cell based techniques	827 268	Pros publiched 24 June 2021 Abstract ~

Clicking on the **Collections** tab will bring you to the familiar CPMB collections (formerly topics or chapters). This provides the curated view of all of the protocols published by Current Protocols in Molecular Biology, organized by topic.

ECURRENT PROTOCOLS in Molecular Biology			
HOME BROWSE ARTICLES V COLLECTIONS	000		
Molecular Biology	🌲 Get Content alerts		
Combinatorial Libraries First published: 31 December 2017 Last updated: 8 March 2021	Get Access		
Methods for the generation, analysis, and use of combinatorial libraries. Combinatorial libraries are collections of synthetic, chemical, or biological compounds, synthesized by combinatorial chemistry. These can then be screened for biological activities of interest.	STEEGUS TEANNATIONA MIDDA		
Commonly Used Techniques in Biochemistry and Molecular Biology First published: 31 December 2017 List updated: 8 March 2021 Standard and commonly used methods and approaches in biochemistry and molecular biology research.	Read XEW Guidelines for Cord Blood Banks and Cord Blood Banking Housever, Cord Statement		
	Editor's Choice		





You can also take advantage of our custom taxonomies to browse the complete Current Protocols collection by either Subject or by Technique, which you can select from the dropdown menu on the Current Protocols homepage. Choosing your top level topic of interest will bring you to a page displaying the complete Subject or Technique taxonomy. This can be expanded to drill down to your particular area of interest. Clicking on your term of interest will return a complete set of articles across the entire CP collection on that topic. The list can be filtered as shown in the section describing Search, above.





7 NAVIGATING A PROTOCOL

In the HTML version, you will notice a number of sections and functionalities.

Top navigation

- Sections: open a drop-down menu and move to the section you want to read first.
- **PDF:** access the protocol in PDF format, which you can download, zoom in/out, and print as needed.
- **Tools:** request permissions, add to favorites or track citations.



• Share: share the content with others.

Left-hand menu

- Figures: see all the figures within the protocol and download the files as .png or .ppt files.
- References: find all the references of other primary and secondary sources used to write this protocol.
- Related: find related protocols and other articles related to this protocol.
- **Information:** find information such as metrics, related keywords (which are hyperlinked and allow you to run a new search with one click), publication history and copyright information.





8 SECTIONS IN A PROTOCOL

- Title
- Author(s)
- **Abstract**, including list of protocols contained in the article
- Introduction to the article

- **Basic, Alternate and Support Protocols** included as appropriate. Each protocol within the article has its own title, introduction and materials list with information about obtaining the reagents.
- **Protocol steps:** Numbered, step-by-step, written in active voice, and providing detailed instructions.
- Italicized **annotations** to steps with helpful hints, alternatives, and additional
- **Reagents and Solutions** section provides recipes for buffers that need to be prepared.
- **Commentary** section: Background Information, Critical Parameters, Troubleshooting, Anticipated Results, Time Considerations, Literature Cited.













- **Troubleshooting:** what to do if things don't go as expected.
- Understanding Results

potential shifts in different organic cation buffers	Oseselatity is not halanced		Content estimates with an estimate and adjust as needed with s-manning or water
Large (>20 mV) electrical potential difference when transferring monolayer to wells with organic cations	Low permeability of organic entires has caused large electrical potential shift		Insigal of 138 mM organic cation-CL use basal chamber buffets with 69 mM NaCl and 69 mM organic cation-CP
"The will have out much	promisis and provide	in a constant	4.5cm
vary and can be maximized depending on the time after p harrier function is measured ment can be monitored using similar device in which the ef- merilised by deping in 70% of Troubleshosting Por a tast of common p possible causes, and suggeste Table 1.	duting at which TER develop- g at EVOM or extrodes can be thanol. problems, their	The difference cates the exten- exclude ations fective at discr cations such as org This relatively cations to per- basis of size at	J. Pu, Pey, ~7-feld. (Fig. 10), between these two values indi- it to which claudin-2 channels in its which claudin-2 channels remaining between snoon-side remaining between snoon-side remaining between snoon-side ratic cations (Yu et al. 2009) poor selectivity allows enguine rester chanfor-2 channels on the d enables the first-ionic potential ribbel here. In contrast, trans-

How do I publish a protocol?

If you would like to submit a protocol for publication, visit the title in which you are interested. On the top navigation, click on the section **For Authors.** Within the drop-down menu, select **Submit a proposal.** The editorial board will consider your proposal, and if appropriate, will invite you to submit a manuscript describing the method in detail.





You may also submit your proposal by scanning the following QR code.



