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GETTING STARTED WITH SPRINGER NATURE EXPERIMENTS

Springer Nature Experiments

This guide explains how to perform a basic search, refine your search results, use the Article Evaluation Pages, and access full-text content using Springer Nature Experiments: the research solution for protocols and methods.

To access the platform, visit **experiments.springernature.com**. It is free to use and you do not need to log in.

ADVANCING **DISCOVERY**

Dispringer Protocols

protocols

nature methods

Homepage

Search over 60,000 protocols and methods: Q e.g. protocol, technique, organism... 2 Nature Protocols Nature Methods Springer Protocols You can start your search straight away using the search Molecular techniques bar on the homepage. Our smart Single-molecule Assay In Situ Hybridization Recombinant Protein Expression search function will provide suggestions of research tech-Western Blot ChIP-seq CRISPR Cross-linking High-Throughput Sequencing niques when you start typing. Browse content by source publication. Microscopy techniques Calcium Imaging Super-resolution Microscopy Cryo-EM Two-photon Microscopy Browse through our technique 3 pages to discover protocols Cell and tissue culture techniques and methods related to major 3D Cell Culture Organoid Culture Tissue Engineering Co-immunoprecipitation techniques in the life sciences. Single-cell Assay Immunohistochemistry Spectroscopy techniques ዮያ X-ray Diffraction Mass Spectrometry NMR

Exploring protocols and methods by technique

Ranging from Molecular techniques, through to Microscopy, Cell & Tissue Culture and Spectroscopy, our technique topic pages gather all there is to know about the most current and impactful research techniques. Whether you want to brush up on a specific technique or explore the latest developments, you will find relevant content on these pages.

1	CRISPR Protocols And Methods Recently cited Recently published Review papers Related Techniques Synonyms Take advantage of or 2 e search tool to find 3 ger Nature protocols and methods related to CRISPR systems, the most applied		7 pader concepts Genetic Engineering Genome Editing		
	technique in Genome Editing.	I	6 CR	ISPR	
1	Recently cited papers The three most Recently cited protocols and methods using the research tech nique.	-	- CRISPR (Editing - CRISPRi	Cas9 Genome	
2	Recently published papers The three Most recently published protocols and methods using the research technique.		– CRISPRa – CRISPR-(Sequenci	droplet ng	
3	Review papers Explore the different methodological approaches for a specific technique and select the best one for your experiment.		– Cas9-Ass CHromos (CATCH)	isted Targeting Of ome Segments	
4	Related techniques Explore the relationship between research techniques and find out which tech niques are used together in the lab.	-	– Easi-CRI	SPR	
5	Synonyms Since techniques can be named or described differently in different research fields, we have compiled some of the most common synonyms.				
6	Technique hierarchy This scheme shows all the related sub-techniques, allowing you to explore connections and refine your search as needed.				
7	Broader concepts You can also expand your search with broader concepts encompassing the research technique you are exploring.				

Performing a search

The search works across all Springer Nature protocols and methods content and has been optimized specifically for this purpose with recognition of common scientific synonyms and abbreviations. Our semantic search identifies research techniques, model organisms and cell lines in search queries and only returns protocols and methods that use them.



Q hela Western Blot									
207 results for "hela Western Blot"									
Concepts identified: Technique: Western Blo	ot 🗙 Cell Line: HeLa 🗙								
Publication Year	Relevance	Most recent	Most cited	Trending					
1997 2019	Nature Protocols (2009) Optimization of detecting GW18: Joanna J Moser, Edward K I	Nature Protocols (2009) Protocol Optimization of immunoprecipitation-western blot analysis in detecting GW182-associated components of GW/P bodies Joanna J Moser, Edward K L Chan, Marvin J Fritzer 20							
Video	Characterizing the compo messenger RNA processin abundance protein GW182	Characterizing the components of GW/processing bodies is key to elucidating RNA interference and messenger RNA processing pathways. This protocol addresses challenges in isolating a low- abundance protein GW182 and GW body (GWB)-associated proteins bymore							
Video available 2	Techniques: SDS-PAGE, Western Blot, RNA Interference, Immunoprecipitation , BCA assay 3 more Models: Mus (mouse), U-87MG Uppsala, <mark>HeLa</mark>								
Technique Show more Y	Citations: 12 Downloa	ds: 2,056							

The search results page

By default, search results are sorted by relevance but you also have the option to sort them by date of publication, citations and trending content (based on the number of downloads within the last month).

Refining your search results

In the left-hand column of the search results screen, you will find the search filters. These enable you to easily narrow down your search by:

- Publication year enter a start year and end year into the boxes or use the sliders to refine results to only those published within this date range. Content is available from 1980 to present.
- **Video available** filters to show just the articles with video content.
- **Technique** the techniques with the most matches will be shown in this collapsed menu, but you can click "Show all" to view the full list or use the dedicated search option to locate a given technique. This filter is powered by our in-house ontologies and AI/text-mining tools which enable us to identify and normalize techniques within full-text and deliver the most relevant results to you.
- 4 Article category choose from different types of content, including protocols, overviews (introduction articles), reviews and research (articles and brief communications). Click "Show all" to expand the filter.
- 5 **Source** refine results to a specific journal title or book series from the Springer Nature portfolio.

Publication Year	
1 1997 2019	
Video	
Video available	2
Technique 3 show	more ~
Q Search for technique	
Cell And Tissue Culture	157
SDS-PAGE	128
Transfection	111
Electrophoresis	52
PCR	52
Cell Lysis	51
Gel Electrophoresis	45
Immunoprecipitation	43
Recombinant Protein Expression	1 33
	JL
Article Category 4	
Protocol	207
Source 5	
Nature Research	11
Nature Protocols	11
	100

Evaluating your results

Within each search result, you will find a number of details that will help you to carry out an at-a-glance evaluation. Once you have refined your results, you can click on a search result title to view the article evaluation page.

Publication Year		Relevance	Most recent	Most cited	Trending	
1997 2019	2	Springer Protocols (2008) 1 Protocol Series: Methods In Molecular Biology > Book: Autophagosome and Phagosome Protocol Methods for Assessing Autophagy and Autophagic Cell Death Ezgi Tasdemir, Lorenzo Galluzzi, M. Chiara Maluri, Alfredo Criollo Guido Kroemer				
Video Video available 7	2 2 5	Autophagic (or type 2) of vacuoles (autophagosor Here we detail and critic Techniques: Western BL Counting (LSC) 19 more	cell death is characterized b mes) in the cytoplasm of cel cally assess a series ofm ot, Electrophoresis, Immun re	y the massive accumulation of Is that lack signs of apoptosis pre pelectron Microscopy, TEM, Liqu	autophagic (type 1 cell death). uid Scintillation	
Technique	Show more ✓ 6	Models: Oryctolagus cu Citations: 100 Down	niculus, Capra hircus, Mus (Iloads: 9,808	(mouse), <mark>HeLa</mark>		

Further Evaluation using Article Evaluation Pages

Article evaluation pages provide a more detailed overview of the key information needed for evaluation and comparison of protocols and methods, including:





- Abstract: as published with the original article
- 2 Figures and videos: here you can see all of the figures and videos associated with this article.
- 3 Related articles: helps you discover more protocols and methods using the same research technique
- 4 Supplementary information: completing the protocol, this can include any texts, figures, videos or databases provided by the author
- 5 **Keywords:** highlight all the techniques and models used in that paper
- 6 **Citation graph:** this shows the total number of citations as well as the citation trend of this particular article over the last 5 years.
- 7 Latest Citations: a list of the last 3 articles that cited this particular protocol or method.

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Accessing the full-text content

Clicking on the Full text button (24) within the article profile page will take you through to the content on its source platform – nature.com for content from *Nature Protocols* and *Nature Methods* or SpringerLink for content from SpringerProtocols.

Please note that you will need to have a current subscription to access the full-text content from *Nature Protocols, Nature Methods* and SpringerProtocols (with the exception of some book titles). Please check with your librarian, or ask them to contact us if you cannot access the full-text content.

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nature methods

