



# SPRINGER NATURE EXPERIMENTS

## The unique research solution for laboratory procedures

- Largest collection of protocols and methods with over 60,000 papers
- Machine-learned index of laboratory procedures by research techniques, model organisms and cell lines
- High-quality, peer-reviewed protocols and methods from the most established journals and books in the field

## Key benefits

- Save time by evaluating article relevance with quick metrics such as numbers of citations and downloads
- Access the best laboratory procedures in your field and keep up to date with the latest cutting-edge methods
- Assess and compare protocols and methods on dedicated pages with figures and videos, keywords and related articles
- Retrieve accurate search results with advanced filter options specific to laboratory procedures

## Disciplines covered include:

- |                     |                               |
|---------------------|-------------------------------|
| • Biochemistry      | • Infectious Diseases         |
| • Bioinformatics    | • Microbiology                |
| • Biotechnology     | • Molecular Medicine          |
| • Cancer Research   | • Neuroscience                |
| • Cell Biology      | • Pharmacology and Toxicology |
| • Genetics/Genomics | • Plant Science               |
| • Imaging           | • Protein Science             |
| • Immunology        |                               |

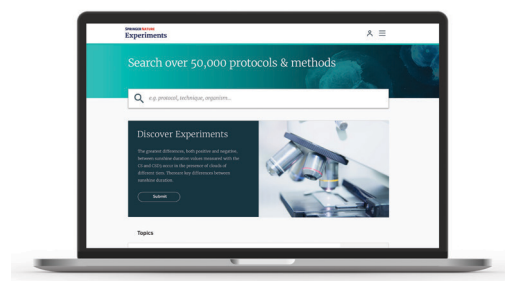
**SPRINGER NATURE**  
**Experiments**

**nature|methods**

**nature**  
**protocols**

 **Springer** Protocols

**protocol**exchange



**ADVANCING**  
**DISCOVERY**

## Smart search

Experiments combines the key features of a database with indexing and discovery features supported by laboratory procedures specific functionalities.

### Concept identification in search input

Our semantic search recognizes research techniques, model organisms and cell lines in search queries.

Q


**206 results for "hela western blot"**

Concepts identified: Technique: Western Blot Cell Line: HeLa

### Articles contextual insights

*Protocol Exchange* (2011) | [OPEN](#) Protocol

**Western blot analysis of IR fluorescently labelled proteins using the G:BOX Imaging System and the Odyssey Infrared Imaging System.**

Lindsey Bunn , Jane Gray

This protocol describes two imaging methods for **Western blot** detection of IR fluorescently labelled proteins using the CCD based G:BOX IR<sup>®</sup> Imaging System and laser scanning Odyssey Infrared Imaging System. This protocol was used to detect expression ...[more](#)

**Techniques:** **Western Blot**, Infrared Imaging, SDS-PAGE, Protein Analysis, Titration

**Models:** **HeLa** Cell Line

## Browsing and discovering

Our thorough technique pages gather key protocols and methods related to major techniques in the life sciences.

### Over 20 technique topic pages

**Molecular techniques**

High-Throughput Sequencing   In situ Hybridization   Recombinant Protein Expression

Single-molecule Assay   CRISPR   Western Blot

ChIP-seq   Cross-linking

**Microscopy techniques**

Two-photon Microscopy   Calcium Imaging   Super-resolution Microscopy

Cryo-EM

### Navigate easily through key papers related to your research technique

**CRISPR Protocols And Methods**

[Recently cited](#) | [Recently published](#) | [Review papers](#) | [Synonyms](#)

Take advantage of our free search tool to find Springer Nature protocols and methods related to CRISPR systems, the most applied technique in Genome Editing.

### Filter options to narrow down your search

**Publication Year**

**Video**

☐ Video available 756

**Technique** [Show all](#)

☐ Cell And Tissue Culture 14522

☐ Polymerase Chain Reaction (PCR) 10423

☐ SDS-PAGE 5740

☐ Western Blot 5474

**Article Category**

☐ Protocol 47108

☐ Overview 8537

☐ News 1925

☐ Research 1613

☐ Comments And Opinions 1010

**Source**

☐ Nature Research 8908

☐ Nature Methods 5292

☐ Nature Protocols 2601

☐ Protocol Exchange 1015

☐ Springer 52170

☐ Methods In Molecular Biology 42928

☐ Methods In Molecular Medicine 3737

☐ Neuromethods 2152

☐ Springer Protocols Handbooks 981

### Explore sub-techniques or broader concepts with our unique technique hierarchy

**Broader concepts**

Genetic Engineering

Genome Editing

**CRISPR**

- CRISPR-Cas9 Genome Editing
- CRISPRi
- CRISPRa
- Easi-CRISPR
- CRISPR-X
- Cas9-Assisted Targeting Of Chromosome Segments (CATCH)

## Detailed article evaluation pages

These well-structured comprehensive reviews compile key information and metrics on each article.



### Full-list of authors with contacts of corresponding authors

18 December 2008

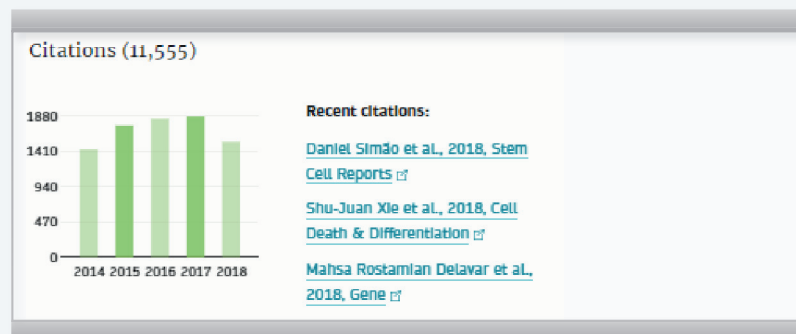
**Systematic and integrative analysis of large gene lists using DAVID bioinformatics resources**

Authors: Da Wei Huang <sup>1,2</sup>, Brad T Sherman <sup>1,2</sup>, Richard A Lempicki <sup>1</sup>

[SHOW more details](#)

[Full text:](#) [PDF](#)

### Last three citations and citation history to gauge successful and consistent application of the article in research



### Related-articles to discover more articles using the same research technique

**Related articles**

*Based on techniques*

[ChIP-on-Chip Analysis Methods for Affymetrix Tiling Arrays](#)

Sean J. Yoder , 2015, Springer Protocols

[A Network-Based Integrative Workflow to Unravel Mechanisms Underlying Disease Progression](#)

Falaz M. Khan et al., 2017, Springer Protocols

[Omics In Zebrafish Teratogenesis](#)

Benjamin Piña et al., 2018, Springer Protocols

### Keywords highlighting techniques used in the paper

**Keywords**

**Techniques:**

Microarray, DAVID Bioinformatics Tool, Genomics, Proteomics, ChIP-on-chip, Gene Functional Annotation

**Others:**

Computational Biology, Bioinformatics, Bio-knowledge database, High throughput gene functional analysis, Gene functional classification, DAVID, DAVID software, Gene list, Gene list analysis, Gene Identifier, Gene ID

### Figures and videos to assess the level of detail of the procedure

Figures (8) & Videos (0)

Figure 8 : Pathway map viewer.

### Associated articles to access previous or more recent versions of a given protocol

**Associated articles**

[Robert Vaser et al., 2015](#)

(This version), 2009



## Users testimonials



Have your say and email [experiments@springernature.com](mailto:experiments@springernature.com) if you are interested in taking part in our user research.

*"What I like about this tool is that it's dedicated to protocols, I can search by methods and techniques, I can narrow down by techniques."*

**PostDoc, Molecular Biology**

*"Better and more selective than PubMed for finding technical papers."*

**PhD student, Cell and Molecular Biology**

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## Availability and access

The Springer Nature Experiments research solution is free to use but access to the full text articles from Nature Methods, Nature Protocols and Nature Methods requires a licence.

To request a trial for your institution, please email us at [experiments@springernature.com](mailto:experiments@springernature.com)