

Springer Protocols 用户指南（初版）

Springer Protocols 是生命科学领域相关研究人员的宝贵资源。

Springer Protocols 拥有数量最多的，包含 58,000 多条生物医学以及生命科学领域相关的实验指南，研究人员可以为他们的实验室配置找到合适的方法，而不需要妥协或寻找其他解决方案。

建立在传统的《分子生物学方法》的基础上，研究人员无论选择哪种方案，都将找到最值得信赖和最可靠的方法，有助于轻松、自信地重新创建实验过程。

在所有实验室指南相关资源当中，只有 Springer Protocols 提供了当前版本和替代版本。对于没有新增设备的实验室来说，这些指南的替代版本非常重要。Springer Protocols 能够保证研究人员访问到最好的方案，无论这些方案是不是最新的。

Springer Protocols 每年出版 180 本书和 4500 多个指南。

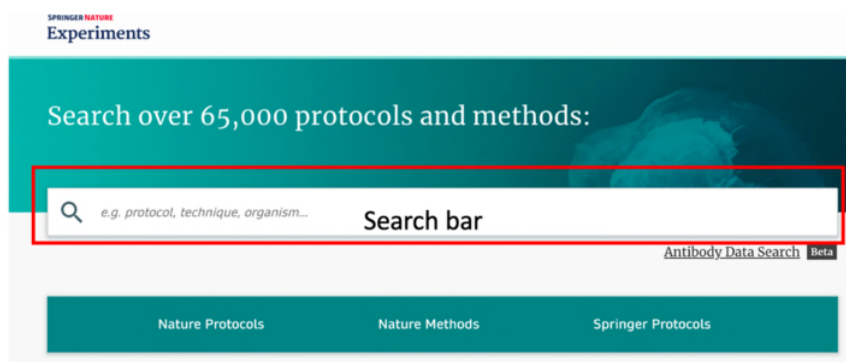
Springer Protocols 的内容全部可以在 Springer Nature Experiments 平台上找到，Springer Nature Experiments 是一个免费使用的平台，可以帮助科学家为他们的研究项目搜索出最为相关的实验指南 <https://experiments.springernature.com/>。

从 Springer Nature Experiments 平台访问 Springer Protocols 内容的操作步骤如下：

搜索模式

输入搜索关键词-比如 in vivo imaging mouse。输入“in vivo”后，将显示推荐词条，选择“in vivo imaging”，然后输入“mouse”并单击回车

- 输入网址 <https://experiments.springernature.com>
- 在搜索栏中输入关键字，然后单击回车。示例：流式细胞仪



- 通过选择各种过滤选项缩小搜索范围（如下图所示）
 - 排序选项，例如“most cited”、“most recent”
 - 使用诸如“Publication year”，“techniques”或“article category”之类的过滤器
 - 要只想获取 Springer Protocols 资源的内容，单击资源过滤器中的“Springer”
- 从属于 Springer Protocols 的列表中选择并单击 Protocol

Flow cytometry

Antibody Data Search **Beta**

3,849 results for "Flow cytometry"

Concepts identified: **Technique: Flow Cytometry** X

Source: Methods In Molecular Biology Methods In Molecular Medicine Springer Protocols Handbooks Methods In Pharmacology and Toxicology Neuromethods Non Series Methods In Biotechnology

Publication Year: 1987 2020

Technique: [Show more](#)

Search for technique

☐ Cell And Tissue Culture 2309

☐ FACS 1678

☐ Cell Separation And Isolation 777

☐ Transfection 727

☐ Western Blot 571

☐ PCR 569

☐ ELISA 492

☐ Cell Proliferation Assay 486

☐ Cell Lysis 470

☐ Fluorescence Microscopy 461

2 Antibody **BETA**

Source

☐ Nature Research 488

☐ Nature Protocols 265

☐ Nature Methods 223

☒ Springer 3849

☒ Methods In Molecular Biology 3411

☒ Methods In Molecular Medicine 277

☒ Springer Protocols Handbooks 45

☒ Methods In Pharmacology and Toxicology 35

☒ Neuromethods 35

☒ Non Series 28

☒ Methods In Biotechnology 18

Article Category

☐ Protocol 3760

☐ Overview 85

Video

☐ Video available 3

Relevance Most recent Most cited Trending

1

Springer Protocols (2018) Protocol

Series: Methods In Molecular Biology > Book: **Flow Cytometry** Protocols

Flow Cytometry Assays in Primary Immunodeficiency Diseases

Maurice R. O'Gorman

Inborn errors of immunity are the cause of the primary immunodeficiency diseases, an extremely diverse group of genetic defects that are inherited in Mendelian fashion and result in the impairment of development and/or function of key components of ...[more](#)

Techniques: FACS, **Flow Cytometry**, Immunophenotyping, Statistical Calculation, DNA Sequencing

Models: Homo sapiens, Capra hircus

Citations: 2 | Downloads: 3,527 Versions available

Springer Protocols (2011) Protocol

Series: Methods In Molecular Biology > Book: **Flow Cytometry** Protocols

Flow Cytometry Assays in Primary Immunodeficiency Diseases

Maurice R. O'Gorman, Joshua Zollett, Nicolas Bensen

The primary immunodeficiency diseases (PIDs) encompass an extremely large and diverse number of clinical disorders caused by mutations in genes that affect virtually every measurable component of our immune systems. Many of the genetic mutations lead ...[more](#)

Techniques: Immunophenotyping, **Flow Cytometry**, FACS, Statistical Calculation

Models: Homo sapiens, Capra hircus

Springer Protocols (2016) Protocol

Series: Methods In Molecular Biology > Book: **Imaging Flow Cytometry**

Sickle Cell Imaging Flow Cytometry Assay (SIFCA)

Kleber Y. Fertrin, Leigh Samsel, Eduard J. Beers, Laurel Mendelsohn ... J. Philip McCoy

Hemoglobin S polymerization under hypoxic conditions in sickle cell disorders causes characteristic shape changes to human red blood cells. Previous sickling assays used to investigate the efficacy of novel agents to treat these disorders are ...[more](#)

Techniques: **Flow Cytometry**, Statistical Calculation

Citations: 2 | Downloads: 3,177

Springer Protocols (2019) Protocol

Series: Methods In Molecular Biology > Book: Human Monoclonal Antibodies

One-Tube Multicolor Flow Cytometry Assay (OTMA) for Comprehensive Immunophenotyping of Peripheral Blood

Anna-Jasmina Donaubaue, Paul F. Rühle, Ina Becker, Rainer Fietkau ... Benjamin Frey

Recent improvements in the **flow cytometry** technology allow the determination of the general immune status through the development of multicolor immunofluorescence panels. The one-tube multicolor **flow cytometry** assay (OTMA) that is presented ...[more](#)

Techniques: Immunophenotyping, **Flow Cytometry**, Multicolor Immunofluorescence

Models: Homo sapiens

Citations: 3 | Downloads: 1,978

Springer Protocols (2016) Protocol

Series: Methods In Molecular Biology > Book: High Throughput Screening

A High-Throughput Flow Cytometry Assay for Identification of Inhibitors of 3',5'-Cyclic Adenosine Monophosphate Efflux

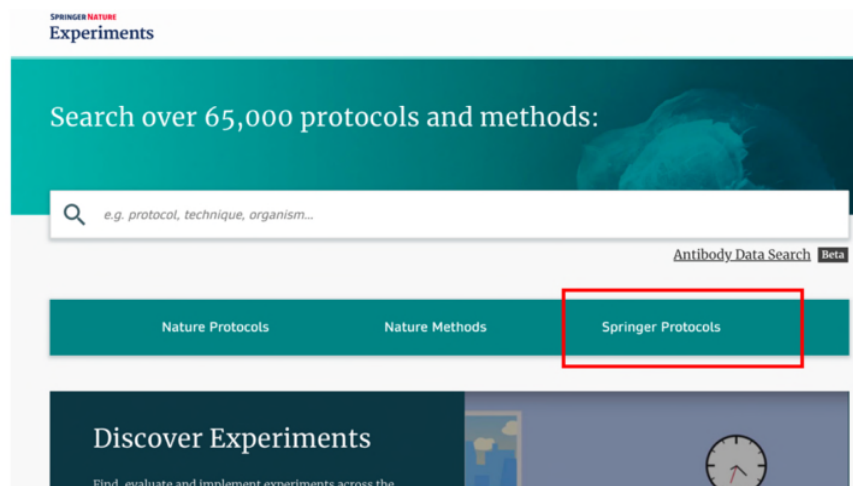
e) 打开初步评估的概览信息，这些信息包含在文章评估页中：

1. 著录信息，如文章标题、作者列表和可扩展的附属关系列表以及其他类别的信息
2. 链接到文章全文 html 和 pdf，点击链接将重新定向到源文章页面
3. 摘要
4. 图表和视频
5. 点击相关文章即可进入文章评估页面

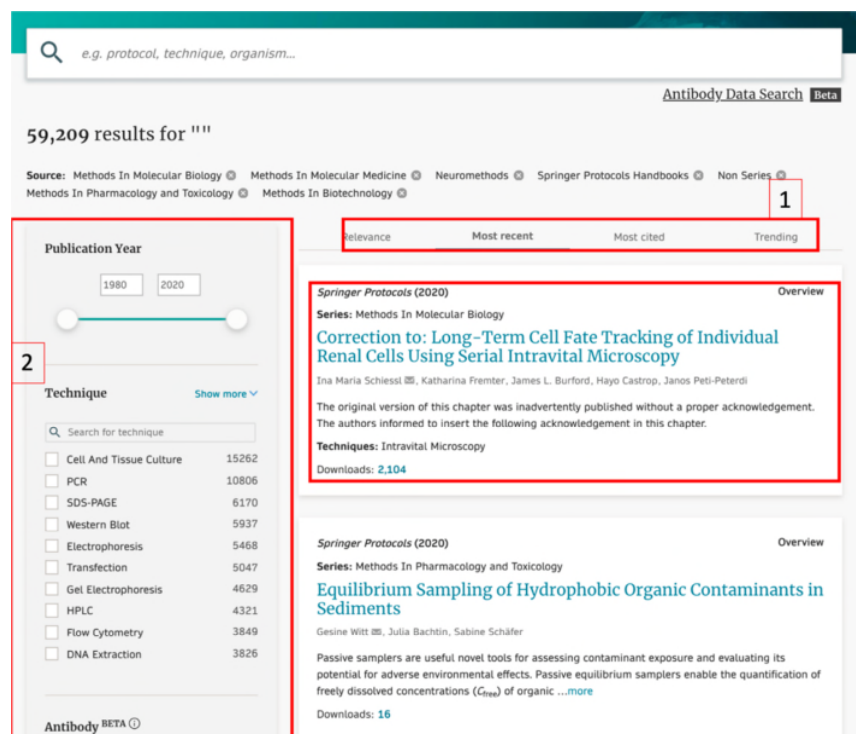
- Springer Nature
Experiments
- Q e.g. protocol, technique, organism...
- Antibody Data Search Beta
- 2018
- Flow Cytometry Assays in Primary Immunodeficiency Diseases
- Authors:
Maurice R. O’Gorman  ¹
- [show more details](#)
- Full text
- PDF
- Abstract
- Inborn errors of immunity are the cause of the primary immunodeficiency diseases, an extremely diverse group of genetic defects that are inherited in Mendelian fashion and result in the impairment of development and/or function of key components of the immune system. Since the last publication of this chapter in 2011, there have been approximately 100 new primary immunodeficiency diseases officially classified by the “Expert Committee for Primary Immunodeficiency” who met in 2015 and the numbers will continue to rise with the continued evolution and widespread adoption of genomic technologies. The ultimate diagnostic modality involves the identification of a mutation in a gene whose product is known to be involved in immunity. DNA sequencing is however still a rather time-consuming technology. Flow cytometry applications have evolved that are rapid, specific, and relatively inexpensive to screen for abnormalities associated with primary immunodeficiency diseases. The numerous flow cytometry procedures that have been developed to detect abnormalities in peripheral blood cells of primary immunodeficiency
- patients can barely be covered in an entire book, let alone one chapter. Instead of attempting to cover each disease with a specific assay or test, we will review four procedures each covering one of the three following broad forms of immune abnormalities observed in primary immunodeficiency, i.e., immune subset abnormalities, immune marker abnormalities, and immune function abnormalities. [less](#)
- Related articles
- Based on techniques
- [Flow Cytometry Assays in Primary Immunodeficiency Diseases](#)
- Maurice R. O’Gorman  et al., 2011, Springer Protocols
- [Fluorescent Cell Barcoding for Immunophenotyping](#)
- Valentina Giudice et al., 2019, Springer Protocols
- [Immunophenotyping of Human B Lymphocytes in Blood and in Adipose Tissue](#)
- Alain Diaz et al., 2019, Springer Protocols
- [Immunophenotyping of Human Innate Lymphoid Cells](#)
- Sara TrabANELLI et al., 2019, Springer Protocols
- [Immunophenotyping of Tissue Samples Using Multicolor Flow Cytometry](#)
- Martina M. Sykora  & Markus Reschke , 2019, Springer Protocols
- [See more](#)
- References
- Figures (6) & Videos (0)
- Fig. 1
-
- Citations (2)
- Recent citations:
- [Tomas Kalina et al., 2020, Cytometry Part A](#) 
- [Maria Fernanda Villavicencio & Luis Alberto Pedroza, 2019, Current Opinion in Pediatrics](#) 
- Keywords
- Techniques:
- FACS, Flow Cytometry, Immunophenotyping, Statistical Calculation, DNA Sequencing
- Models:
- Homo sapiens, Capra hircus
- Others:
- Lymphocyte subsets, Primary immunodeficiency disease, Oxidative burst, X-linked hyper IgM syndrome (XHIM) CD40 ligand, Autoimmune lymphoproliferative syndrome (ALPS)
- Associated articles
- (This version), 2018
- [Maurice R. O’Gorman et al., 2011](#)

浏览模式

- 进入主页网址(<https://experiments.springernature.com>)
- 在按资源发布浏览内容的选项中, 点击“Springer Protocols”将会触发选定所有来自 Springer Protocols 资源的搜索结果



- 在搜索页面上, 浏览并选择 Springer Protocols 内容, 方法为如下之一:
 - 选择各种不同的排序选项
 - 使用诸如“Publication year”, “techniques” 或“article category”之类的过滤器



d) 按照搜索模式部分中提到的 e-f 步骤操作

最终将进入 Springer Protocols 页面，点击“download book”并可下载原文。

The screenshot shows the SpringerLink interface for a protocol titled "Flow Cytometry Assays in Primary Immunodeficiency Diseases". The page includes a search bar, navigation links (Home, Log in), and a sidebar with a "Download book" button and a "Cite protocol" dropdown menu. The main content area displays the protocol title, author information (Maurice R. G. O'Gorman), and a table with 2 citations and 3.5k downloads. The abstract text is visible below the table.

SpringerLink

Search Home Log in

Flow Cytometry Protocols pp 321-345 | Cite as

Flow Cytometry Assays in Primary Immunodeficiency Diseases

Authors Authors and affiliations

Maurice R. G. O'Gorman

Protocol

First Online: 26 October 2017

2 Citations 3.5k Downloads

Part of the [Methods in Molecular Biology](#) book series (MIMB, volume 1678)

Abstract

Inborn errors of immunity are the cause of the primary immunodeficiency diseases, an extremely diverse group of genetic defects that are inherited in Mendelian fashion and result in the impairment of development and/or function of key components of the immune system. Since the last publication of this chapter in 2011, there have been approximately 100 new primary immunodeficiency diseases officially classified by the "Expert Committee for Primary Immunodeficiency" who met in 2015 and the numbers will continue to rise with the continued evolution and widespread adoption of genomic technologies. The ultimate diagnostic modality involves the identification of a mutation in a gene whose product is known to be involved in immunity. DNA sequencing is however still a rather time-consuming technology. Flow

Download book

Cite protocol

Protocol

Abstract

1 Introduction

2 Materials

3 Methods

4 Notes

References

Copyright information

About this protocol