



Faculty Opinions

previously F1000Prime

# Faculty Opinions (原F1000 Prime) 用户使用指南

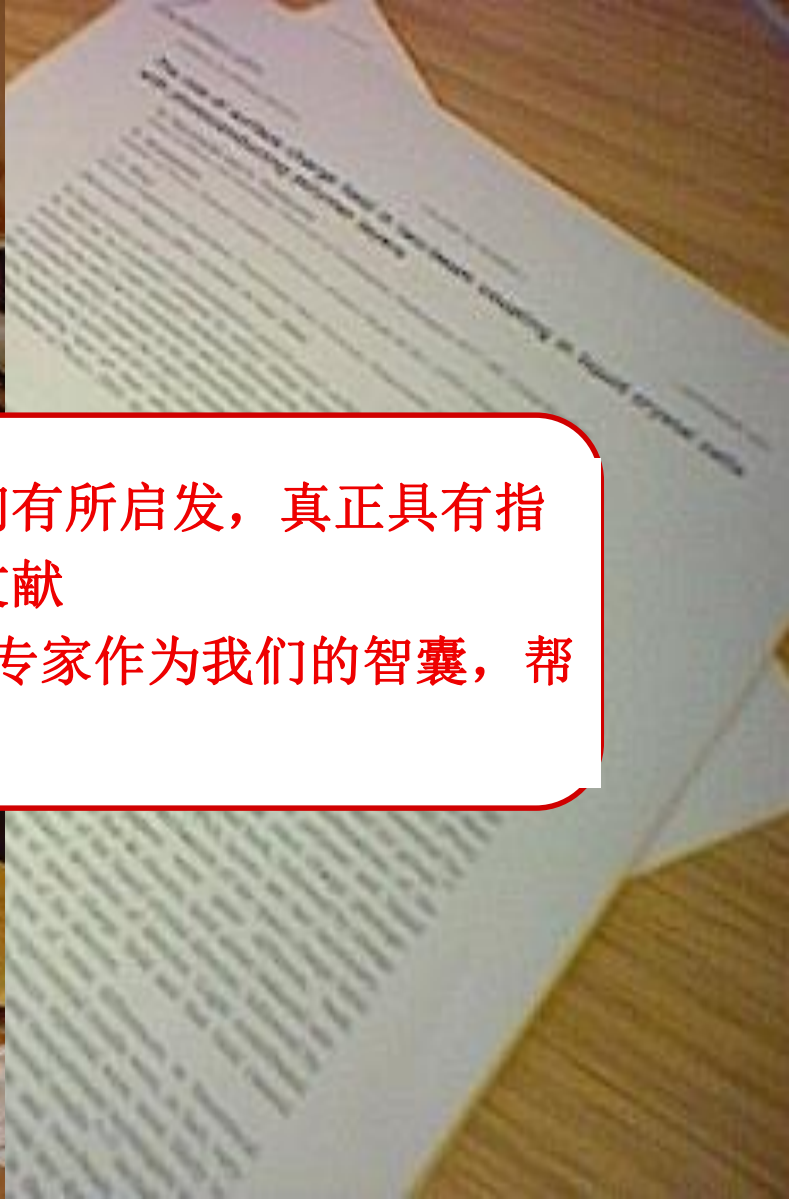
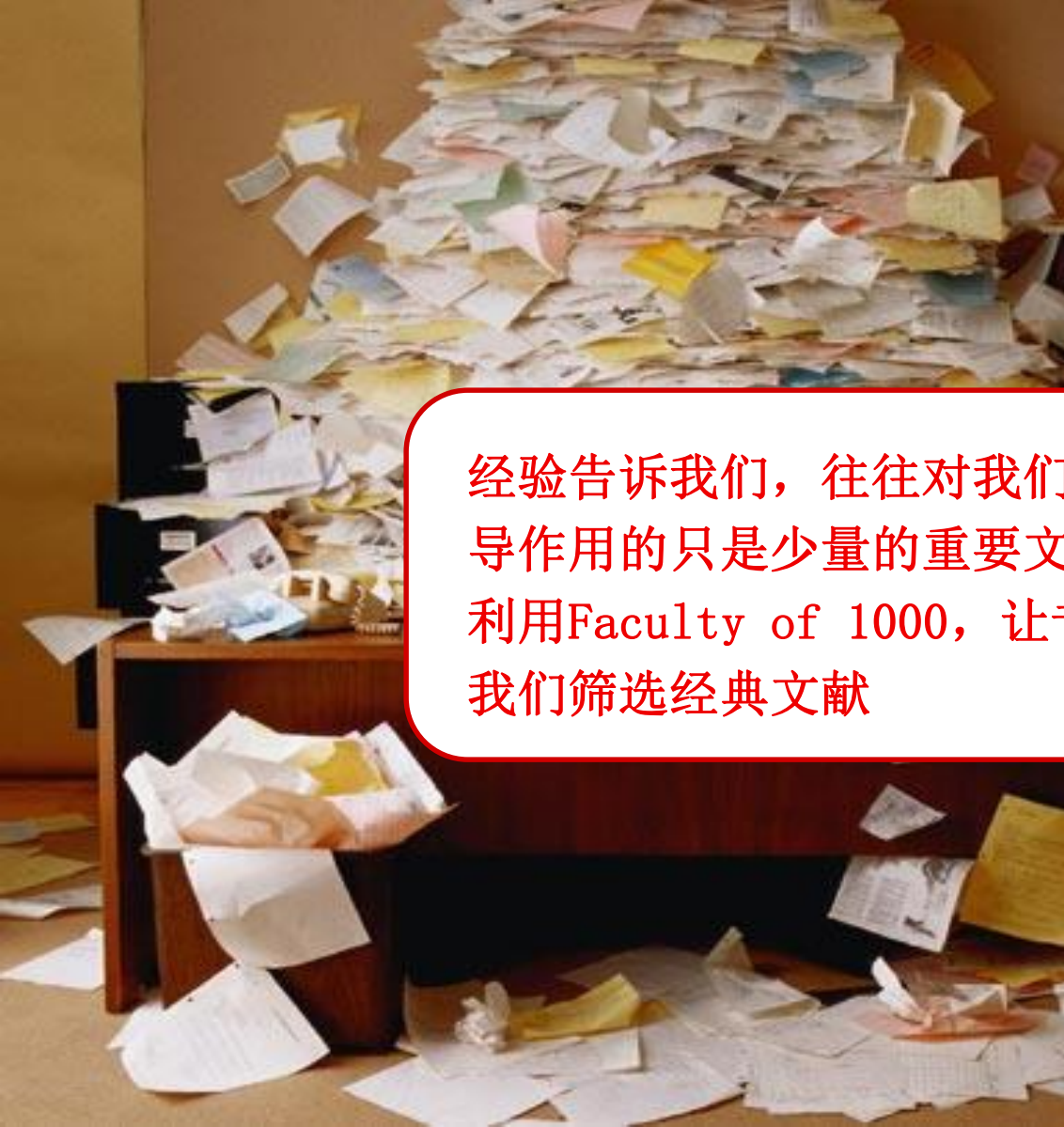
**Website:** <https://facultyopinions.com/search/articles>

一、背景介绍

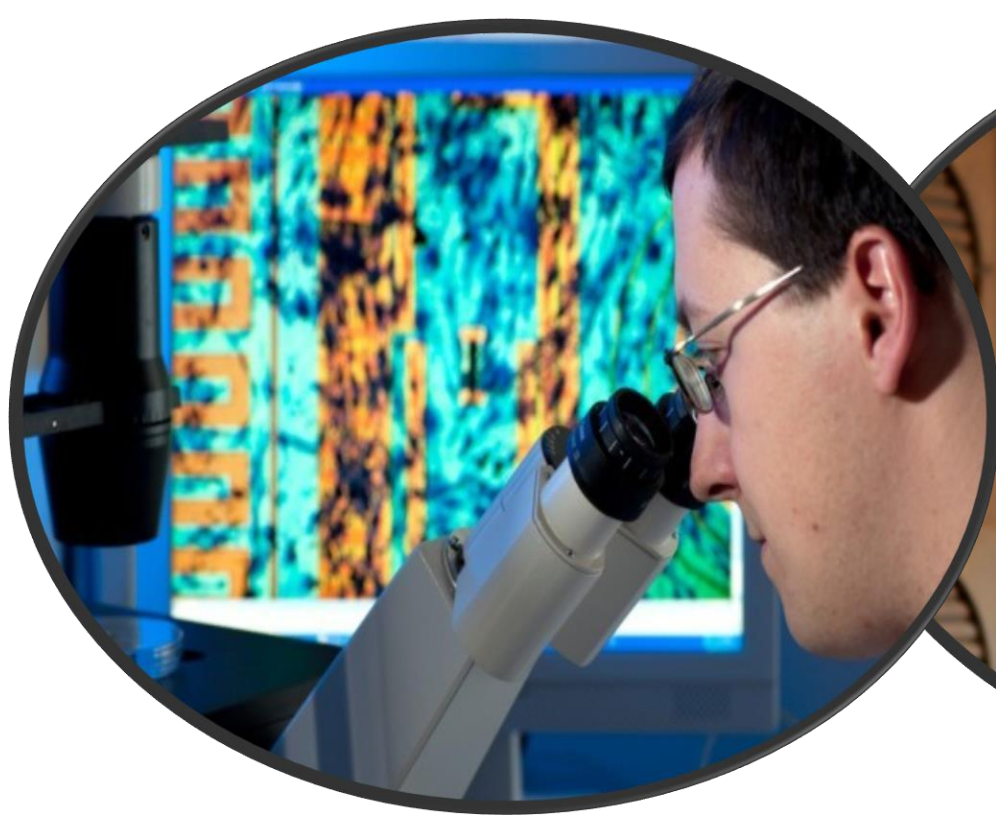
二、利用Faculty Opinions解读最新科学文献

三、如何在PubMed网站设置使用Faculty Opinions





经验告诉我们，往往对我们有所启发，真正具有指导作用的只是少量的重要文献  
利用Faculty of 1000，让专家作为我们的智囊，帮助我们筛选经典文献



在充满挑战的科研道路上，分享  
“大牛”们的宝贵经验

OPINION

# Scientists and journals must work together to protect the integrity of the scientific literature

By Bruce Alberts and Miranda Robertson 10 May 2022

## How can Faculty Opinions help you?

- 帮助我找出所有重要的关键文章。
- 节省我节选阅读重要文献的时间。
- 经过两次以上的同行评审更能确认文章的重要性及可读性。

## 帮你选出重要必读论文并由同行加以评论的生物医学资料库

- ◆ 90%的世界顶级机构均有订阅
- ◆ 推荐的文章覆盖3800多本期刊

### Vital Signs

**193,209**

Expert  
recommendations

**135,657**

New Finding

**3,641**

Journals covered

**540**

New articles added  
in past 30 days

**8,332**

Faculty Members

**3,256**

Associate  
Faculty Members

高水平的专家团队(人数要改)

5位诺贝尔奖得主

81位英国皇家学会院士

12位拉斯克奖得主(Lasker Prize)

136位国家科学院研究员

97位国家医学研究院研究员

超过13万篇涉及新发现  
的文章已经被推荐

1. **Article Recommendations:** 遴选出近期某领域研究中有着重要价值和意义的文章，并从意义、创新点、方法等方面进行评价
2. **Rankings:** 对选出的文章进一步分级，按照推荐分数和浏览量进行排序
3. **Faculty Reviews Journal:** 就近期某一生物学和医学内容的热门研究提供同行评议报告
4. **Meet the Faculty:** 及时获得生物、医学某一领域的专家信息及其做出的评论
5. **Faculty Opinion Blog:** 即时发布各领域动向、观点、研究方法、文章排行、趣味新闻等



Find the most important research in Biology and Medicine

Keyword search

SEARCH

# Article Recommendations

93,209 results

FILTER

ADVANCED SEARCH

Showing 1-10

per page

10

Sort

Section

- Airway / Respiratory Physiology 914
- Anesthetic Mechanisms 1,152
- Cardiovascular Medicine in Anesthesia 1,530
- Clinical Pharmacology 1,916
- Health Services Research in Anesthesiology & Perioperative Medicine 1,040

Recommended

Recommended by Faculty Members at Faculty Opinions

Score 37.2

- Relative citation ratio: 5.6
- Weighted sum of stars: 8.0

Top 0.1% In Plant Biology

2 Recommendations

- 2 \*\*\* Exceptional
- 0 \*\* Very good
- 0 \* Good

[View Article](#) | [Learn more](#)

Recommended 37.2

## TMK-based cell-surface auxin signalling ac

Lin W et al. | 2021 Nov

Latest recommendation by: [Noni Franklin-Tong](#) | 25 Jul 2022

New Finding

Recommended 9.2

## Circulating Lipoproteins in Subjects with Morbid Obesity Undergoing Bariatric Surgery with Gastric Bypass or Sleeve Gastrectomy.

Aaseth JO et al. | 2022 Jun 08

Latest recommendation by: [Amelia Carro Hevia](#) | 25 Jul 2022

Interesting Hypothesis | New Finding

可以关注专家信息  
及相关评论



# 1. Sign-In...(1)



Find the most important research in Biology and Medicine

Keyword search

SEARCH

- Subscribed Institution access within IP range
- Register / Sign In personal account for saving search results

## The COVID-19 articles you need to read

Expert opinion on the research from this fast-moving field

VIEW CONTENT

### Article Recommendations

Concise evaluations of what the experts have to say about the latest medical research across 45+ life and medical sciences faculties.

Recommended **37.2**

TMK-based cell-surface auxin signalling activates cell-wall acidification.

### Meet the Faculty

Search and follow our expert Faculty Members for their research insights and recommendations.



Noni Franklin-Tong  
University of Birmingham  
UK

### Faculty Reviews Journal

Deep-dive into the most recent advances and emerging concepts in the life sciences and medicine.

Accumulation of the gaseous hormone ethylene helps roots sense compact soil

Eric M Kramer, Josette Masle, Sarah Robinson, Christopher N Todd

# 1. Sign-In...(2)

Find the most important research in Biology and Medicine

Keyword search

SEARCH

### SIGN IN

Username/Email

Password

Remember me [Forgot Password?](#)

**SIGN IN**

Facebook Google

Need an account? [Register](#)

### ACCESS

**ACCESS THROUGH INSTITUTION**

---

**Recommend Faculty Opinions**

Ask us to contact your librarian/ information manager about a free trial for your institution.

**RECOMMEND**

- Register / Sign In personal account for saving search results

# 2. Article Recommendations



Find the most important research in Biology and Medicine

3

Keyword search

SEARCH

## Article Recommendations

193,209 results for "" (Article title + Recommendation) | [Clear filters](#)

FILTER

ADVANCED SEARCH

Showing 1-10 of 193,209

Results per page

10

Sort

Enter Keyword/s

Article title + Recommendation...

AND

Enter Keyword/s

All Fields

SEARCH

Recommended 37.2

TMK-based cell-surface auxin signalling activates cell-wall acidification.

Lin W et al. | 2021 Nov

Latest recommendation by: [Noni Franklin-Tong](#) | 25 Jul 2022

New Finding

Recommended 9.2

Circulating Lipoproteins in Subjects with Morbid Obesity Undergoing Bariatric Surgery with Gastric Bypass or Sleeve Gastrectomy.

Aaseth JO et al. | 2022 Jun 08

Latest recommendation by: [Amelia Carro Hevia](#) | 25 Jul 2022

Interesting Hypothesis

New Finding



Find the **most important research** in Biology and Medicine

Q Nanjing

SEARCH

## Article Recommendations

258 filtered results for "Nanjing" | [Clear filters](#)

FILTER ADVANCED SEARCH

Showing 1-10 of 258

Filtered search results

Sort

- Section
- Airway / Respiratory Physiology 1
  - Anesthetic Mechanisms 1
  - Clinical Pharmacology 1
  - Health Services Research in Anesthesiology & Perioperative Medicine 1
  - Pain Management: 1

Recommended 4.6

### Impact of interannual and multidecadal trends on methane-climate feedbacks and sensitivity.

Cheng CH, Redfern SAT | 2022 Jun 23

Latest recommendation by: [Michael Symonds](#) | 06 Jul 2022

Good for Teaching

New Finding

Technical Advance

Recommended 9.2

### Analysis of Serum miRNAs in Alzheimer's Disease.

Lu L et al. | 2021 Jan-Dec

Latest recommendation by: [Winston Hide](#) | 16 Jun 2022

## 2. Article Recommendations - search

### Classified As

<input type="checkbox"/> Confirmation	37
<input type="checkbox"/> Controversial	14
<input type="checkbox"/> Good For Teaching	42
<input type="checkbox"/> Interesting Hypothesis	56
<input type="checkbox"/> Negative/Null Result	1
<input type="checkbox"/> New Finding	194
<input type="checkbox"/> Novel Drug Target	19
<input type="checkbox"/> Refutation	3
<input type="checkbox"/> Technical Advance	27

[Clear](#)

### Rated As

<input type="checkbox"/> Exceptional	28
<input type="checkbox"/> Very Good	99
<input type="checkbox"/> Good	142

[Clear](#)

### Recommended In

<input checked="" type="radio"/> All-Time	258
<input type="radio"/> 30 Days	1
<input type="radio"/> 90 Days	6
<input type="radio"/> 12 Months	17

[Clear](#)

### Article Published

From

To

[Clear](#)

# TMK-based cell-surface auxin signalling activates cell-wall acidification.

Lin W et al.

Nature. 2021 Nov; 599(7884):278-282

<https://doi.org/10.1038/s41586-021-03976-4>

PMID: [34707287](https://pubmed.ncbi.nlm.nih.gov/34707287/)

Institution Image

Show Details



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  - Email

Recommended 37.2

**Score 37.2**

- Relative citation ratio: 5.6
- Weighted sum of stars: 8.0

↑ **Top 0.1%** in Plant Biology

**2 Recommendations**

2	★★★ Exceptional
0	★★ Very good
0	★ Good

[Learn more](#)

## Classifications

New Finding

## Evaluations

Exceptional ★ ★ ★

09 Dec 2021

[Shanjin Huang](#)

The elongation of plant organs, such as hypocotyls, coleoptiles, and roots, driven by auxin, has been explained by the acid-growth theory, which states that auxin enhances the pumping of protons to the outside of the cell via the plasma membrane H<sup>+</sup>-ATPase within several minutes. This suggests that transcriptional regulation is not essential for auxin-induced elongation of plant organs. A previous study...

More ▾

[Article Summary](#)

[Classifications](#)


[Evaluations](#)

[Relevant Sections](#)

[Related Articles](#)

[nature](#) > [articles](#) > [article](#)Article | [Open Access](#) | [Published: 27 October 2021](#)

# TMK-based cell-surface auxin signalling activates cell-wall acidification

[Wenwei Lin](#), [Xiang Zhou](#), [Wenxin Tang](#), [Koji Takahashi](#), [Xue Pan](#), [Jiawei Dai](#), [Hong Ren](#), [Xiaoyue Zhu](#), [Songqin Pan](#), [Haiyan Zheng](#), [William M. Gray](#), [Tongda Xu](#), [Toshinori Kinoshita](#) & [Zhenbiao Yang](#) 

*Nature* **599**, 278–282 (2021) | [Cite this article](#)

**19k** Accesses | **22** Citations | **138** Altmetric | [Metrics](#)

## Abstract

The phytohormone auxin controls many processes in plants, at least in part through its regulation of cell expansion<sup>1</sup>. The acid growth hypothesis has been proposed to explain auxin-stimulated cell expansion for five decades, but the mechanism that underlies auxin-induced cell-wall acidification is poorly characterized. Auxin induces the phosphorylation and activation of the plasma membrane H<sup>+</sup>-ATPase that pumps protons into the apoplast<sup>2</sup>, yet how auxin activates its phosphorylation remains unclear. Here we show that the transmembrane kinase (TMK) auxin-signalling proteins interact with plasma membrane H<sup>+</sup>-ATPases, inducing their phosphorylation, and thereby promoting cell-wall acidification and hypocotyl cell elongation in *Arabidopsis*. Auxin induced interactions between TMKs and H<sup>+</sup>-ATPases in the plasma membrane within seconds, as well as TMK-dependent phosphorylation of the penultimate threonine residue on the H<sup>+</sup>-ATPases. Our genetic, biochemical and molecular evidence demonstrates that TMKs directly phosphorylate plasma membrane H<sup>+</sup>-ATPases.

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Sections

Figures


References

[Abstract](#)[Main](#)[Methods](#)[Data availability](#)[References](#)[Acknowledgements](#)[Author information](#)[Ethics declarations](#)[Additional information](#)[Extended data figures and tables](#)[Supplementary information](#)[Source data](#)[Rights and permissions](#)[About this article](#)[Further reading](#)

# 3. The Faculty...(1)



Find the **most important research** in Biology and Medicine

 Keyword search

SEARCH

## The Faculty

8,332 results

FILTER

ADVANCED SEARCH

Showing 1-20 of 8,332

Results per page 20

Faculty

Anesthesiology & Pain Management 335

Bioinformatics, Biomedical Informatics & Computational Biology 201

Biological Physics 94

Cardiovascular Disorders 133

Cell Biology 785

[Show all 46 Faculties](#)

[Clear](#)



**Antti Aalto**  
University of California, San Diego  
USA



**Matti Aapro**  
Clinique de Genolier  
Switzerland



**Emmeke Aarts**  
Utrecht University  
The Netherlands



**Sumaira Aasi**  
Stanford University  
USA



# 3. The Faculty...(2) Faculty from "China"



Find the most important research in Biology and Medicine

Keyword search

SEARCH

Search by Name/Country/Institution 🔍 e.g. "China"

## The Faculty

16 results for "China"

FILTER

ADVANCED SEARCH

Showing 1-16 of 16

Results per page

20

Sort

Faculty

Biological Physics 1

Cell Biology 1

Chemical Biology 1

Developmental Biology 1

Diabetes & Endocrinology 1

[Show all 46 Faculties](#)

[Clear](#)

Section

Biomimetic Chemistry 1



**Junhua Yuan**

University of Science and Technology of China  
China



**Yunyu Shi**

University of Science and Technology of China  
China



**Shaopeng Li**

East China Normal University  
China



**Xin Zhou**

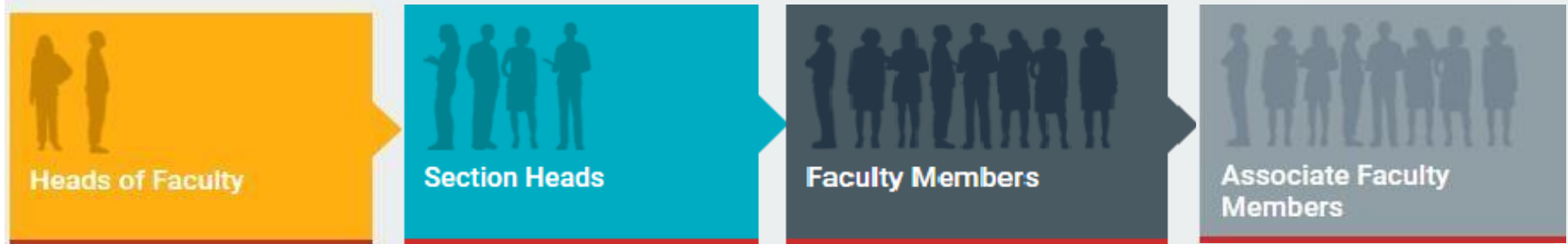
China Agricultural University  
China

1 - 14 of 20



## 4. The Faculty ... (3) Faculty Structure

### Faculty structure



- **Heads of Faculty** are the most eminent individuals in their field overseeing each of the Faculties across biology and medicine. They divide their Faculty into its major disciplines – Sections – and appoint Section Heads for each of these fields.
- **Section Heads** are leading authorities in their respective discipline, who provide editorial oversight and appoint Faculty Members to review the literature to ensure the full breadth of the field is covered.
- **Faculty Members** are leading experts, who recommend the most noteworthy articles in their fields, sharing their perspective and opinion to help you understand the key points and context.
- **Associate Faculty Members** are appointed by Faculty Members to assist them with the recommendation process. They also scan the tables of contents of the major general and specialist journals to ensure that the literature is systematically and comprehensively covered.

The Faculty comprises peer-nominated, internationally-renowned researchers from across the world, who pick out and recommend articles they consider to be highly important to others working both in their field and beyond.

## 5. Faculty Opinions @PubMed...(1)

Registered with PubMed, go to 'My NCBI' and follow these steps:

1. Go to Filters, PubMed
2. Click Manage Filters
3. Under Browse/Search for PubMed Filters, click LinkOut
4. Search for Faculty Opinions
5. Click Filter and Link Icon

# 5. Faculty Opinions @PubMed...(2)

The screenshot shows the PubMed.gov website interface. At the top left, the NIH logo and text "National Library of Medicine National Center for Biotechnology Information" are visible. The main header features the "PubMed.gov" logo and a search bar containing the text "lung cancer". Below the search bar, the word "Advanced" is displayed. A paragraph of text states: "PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and Citations may include links to full-text content from PubMed Central and publisher web sites." On the right side, a user account menu is open, showing the user's name "jackjia" in a red-bordered box. The menu items are: "ACCOUNT" (with a close icon), "Logged in as: jackjia2" (with a blue-bordered box), "Dashboard (My NCBI)", "Publications (My Bibliography)", "Account settings" (with a red-bordered box), and "Log out".



## Learn

About PubMed  
FAQs & User Guide  
Finding Full Text



## Find

Advanced Search  
Clinical Queries  
Single Citation Matcher



## Download

E-utilities API  
FTP  
Batch Citation Matcher



## Explore

MeSH Database  
Journals  
Legacy PubMed (available until at least 10/31/2020)

# 5. Faculty Opinions @PubMed...(3)

My NCBI » Settings

## NCBI Account Settings

### Email

jackjia2010@gmail.com (confirmed)

This email is used for delivery of saved searches.

Change

### Linked accounts

You can sign in via these 3rd-parties. Contact the 3rd party for sign-in related issues.

Google

jackjia2010@gmail.com (currently signed in via this method)

Change

### Delegates

You can add delegates to help you manage your bibliography and/or SciENcv profiles.

[Add a Delegate](#)

### API Key Management

Create an API Key

E-utils users are allowed 3 requests/second without an API key. Create an API key to increase your e-utils limit to 10 requests/second. Contact our [help department](#) if you need higher throughput. Only one API Key per user. Replacing or deleting will inactivate the current key. Use this key by passing it with `api_key=API_KEY` parameter. Refer to [documentation](#) for more.

# 5. Faculty Opinions @PubMed ...(4)

COVID-19 is an emerging, rapidly evolving situation.  
Get the latest public health information from CDC: <https://www.coronavirus.gov>.  
Get the latest research from NIH: <https://www.nih.gov/coronavirus>.  
Find NCBI SARS-CoV-2 literature, sequence, and clinical content: <https://www.ncbi.nlm.nih.gov/sars-cov-2/>.

My NCBI » Filters

[Filters help](#)

You are managing filters for: PubMed Choose another database: PubMed (1 active)

## Your PubMed filter list

Create custom filter

You do not have any active filters for this database.  
Create a new custom filter using the button above, or select filters from Browse/Search Panel to the right.

## Browse/Search for PubMed Filters

Select category:

Popular  LinkOut  Properties  Links

Search with terms (optional):

faculty opinions Search

Active		Name	Description
Filter	Link Icon		
<input type="checkbox"/>	<input type="checkbox"/>	Faculty Opinions (website)	See the articles recommended by a Faculty of more than 8,000 leading experts in biology and medicine.

# 5. Faculty Opinions @PubMed ...(5)

NIH National Library of Medicine National Center for Biotechnology Information

jackj

PubMed.gov

lung cancer

Advanced Create alert Create RSS User Guide

Save Email Send to Sorted by: Best match Display options

MY NCBI FILTERS

2,115 results

All (351,986)

**Opinions (2,115)**

RESULTS BY YEAR



TEXT AVAILABILITY

- Abstract
- Free full text
- Full text

ARTICLE ATTRIBUTE

- Associated data

ARTICLE TYPE

- Books and Documents
- Clinical Trial
- Meta-Analysis

- Lung cancer: current therapies and new targeted treatments.**  
1 Hirsch FR, Scagliotti GV, Mulshine JL, Kwon R, Curran WJ Jr, Wu YL, Paz-Ares L.  
Cite Lancet. 2017 Jan 21;389(10066):299-311. doi: 10.1016/S0140-6736(16)30958-8. Epub 2016 Aug 27.  
Share PMID: 27574741 **Free article.** Review.  
**Lung cancer** is the most frequent cause of **cancer**-related deaths worldwide. Every year, 1-8 million people are diagnosed with **lung cancer**, and 1-6 million people die as a result of the disease. 5-year survival rates vary from 4-17% depending on s ...
- Pembrolizumab versus docetaxel for previously treated, PD-L1-positive, advanced non-small-cell lung cancer (KEYNOTE-010): a randomised controlled trial.**  
2 Herbst RS, Baas P, Kim DW, Felip E, Pérez-Gracia JL, Han JY, Molina J, Kim JH, Arvis CD, Ahn MJ, Majem M, Fidler MJ, de Castro G Jr, Garrido M, Lubiniecki GM, Shentu Y, Im E, Dolled-Filhart M, Garon EB.  
Cite Lancet. 2016 Apr 9;387(10027):1540-1550. doi: 10.1016/S0140-6736(15)01281-7. Epub 2015 Dec 19.  
Share PMID: 26712084 Clinical Trial.  
BACKGROUND: Despite recent advances in the treatment of advanced non-small-cell **lung cancer**, there remains a need for effective treatments for progressive disease. We assessed the efficacy of pembrolizumab for patients with previously treated, PD-L1-positive, advanc ...
- Metastatic-niche labelling reveals parenchymal cells with stem features.**  
3 Ombrato L, Nolan E, Kurelac I, Mavousian A, Bridgeman VL, Heinze I, Chakravarty P, Horswell S, Gonzalez-Gualda F, Matarichione G, Weston A, Kirkpatrick I, Husain F, Snares V



## PubMed

PubMed comprises more than 22 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.


### Using PubMed

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[LinkOut](#)

对PubMed收录的全部文章进行筛选，挑选并推荐其中重要的文章





Thanks