

Name of Journal: *World Journal of Biological Chemistry*

Manuscript NO: 41750

Manuscript Type: MINIREVIEWS

Arrestin-mediated signaling: Is there a controversy?

Gurevich VV *et al.* Arrestin-mediated signaling

Vsevolod V Gurevich, Eugenia V Gurevich

Abstract

The activation of the mitogen-activated protein (MAP) kinases extracellular signal-regulated kinase (ERK)1/2 was traditionally used as a readout of signaling of G protein-coupled receptors (GPCRs) *via* arrestins, as opposed to conventional GPCR signaling *via* G proteins. Several recent studies using HEK293 cells where all G proteins were genetically ablated or inactivated, or both non-visual arrestins were knocked out, demonstrated that ERK1/2 phosphorylation requires G protein activity, but does not

Match Overview

1	Crossref 17 words Vsevolod V. Gurevich, Eugenia V. Gurevich. "GPCRs and Signal Transducers: Interaction Stoichiometry", <i>Trends in Pharm</i>	<1%
2	Crossref 14 words Eduard Stefan, Klaus Bister. "Chapter 4 MYC and RAF: Key Effectors in Cellular Signaling and Major Drivers in Human Ca	<1%
3	Internet 14 words crawled on 16-Mar-2016 archiv.ub.uni-marburg.de	<1%
4	Internet 13 words crawled on 24-Nov-2015 www.ncbi.nlm.nih.gov	<1%
5	Crossref 12 words Qiuyan Chen, Nicole A. Perry, Sergey A. Vishnivetskiy, Sanjiv ... a Berndt et al. "Structural basis of arrestin-3 activation and si	<1%

找到约 45,500 条结果 (用时 0.46 秒)

[β-Arrestin-mediated Signaling Regulates Protein Synthesis - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2447657/)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2447657/> ▼ [翻译此页](#)

作者：SM DeWire - 2008 - 被引用次数：93 - [相关文章](#)

One of **the** most well studied targets of **β-arrestin-mediated signaling** from roles of Mnk1 and eIF4E in **the** regulation of this process have been **controversial**.

[Mechanisms of Biased β-Arrestin-Mediated Signaling ... - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pubmed/27009233)

<https://www.ncbi.nlm.nih.gov/pubmed/27009233> ▼ [翻译此页](#)

作者：F Delgado-Peraza - 2016 - 被引用次数：27 - [相关文章](#)

2016年3月23日 - Mechanisms of Biased **β-Arrestin-Mediated Signaling** Downstream from **the** Cannabinoid 1 Receptor. Delgado-Peraza F(1), Ahn KH(1), ...

缺少字词：[controversy](#)

[Mechanisms of Biased β-Arrestin-Mediated Signaling ... - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885504/)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885504/> ▼ [翻译此页](#)

作者：F Delgado-Peraza - 2016 - 被引用次数：27 - [相关文章](#)

2016年6月23日 - Activation of G protein-coupled receptors results in multiple waves of **signaling** that are **mediated** by heterotrimeric G proteins and **the** ...

缺少字词：[controversy](#)

[Emerging Roles for β-arrestins in Developmental Signaling Pathways](https://www.sciencedirect.com/science/article/pii/S1534580709003931)

<https://www.sciencedirect.com/science/article/pii/S1534580709003931> - [翻译此页](#)

作者：JJ Kovacs - 2009 - 被引用次数：177 - [相关文章](#)

2009年10月20日 - However, **the** involvement of G protein-**mediated signaling** activity downstream of Smo has remained **controversial**. Recently, a study has ...

找到约 43,200 条结果 (用时 0.47 秒)

[β-Arrestin-mediated Signaling Regulates Protein Synthesis - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2447657/)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2447657/> ▾ [翻译此页](#)

作者: SM DeWire - 2008 - 被引用次数: 89 - [相关文章](#)

One of **the** most well studied targets of **β-arrestin-mediated signaling** from roles of Mnk1 and eIF4E in **the** regulation of this process have been **controversial** .

[Mechanisms of Biased β-Arrestin-Mediated Signaling Downstream ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885504/)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885504/> ▾ [翻译此页](#)

作者: F Deigado-Peraza - 2016 - 被引用次数: 25 - [相关文章](#)

2016年6月23日 - Activation of G protein-coupled receptors results in multiple waves of **signaling** that are **mediated** by heterotrimeric G proteins and **the** ...

缺少字词: **controversy**

[Structural basis of arrestin-3 activation and signaling | Nature ...](https://www.nature.com/nature-communications/articles)

<https://www.nature.com/nature-communications/articles> - [翻译此页](#)

作者: Q Chen - 2017 - 被引用次数: 12 - [相关文章](#)

2017年11月10日 - This **arrestin-mediated signaling** regulates cell proliferation and apoptosis

However, **there** is **controversy** on this because of **the** quality of **the** ...

[Emerging Roles for β-arrestins in Developmental Signaling Pathways](https://www.sciencedirect.com/science/article/pii/S1534580709003931)

<https://www.sciencedirect.com/science/article/pii/S1534580709003931> - [翻译此页](#)

作者: JJ Kovacs - 2009 - 被引用次数: 174 - [相关文章](#)

2009年10月20日 - However, **the** involvement of G protein-**mediated signaling** activity downstream of Smo has remained **controversial**. Recently, a study has ...

[\[PDF\] β-Arrestin-mediated β1-adrenergic receptor transactivation of the ...](https://www.jci.org/manuscripts/31000/31901/JCI0731901.pdf)

[content-assets.jci.org/manuscripts/31000/31901/JCI0731901.pdf](https://www.jci.org/manuscripts/31000/31901/JCI0731901.pdf) ▾ [翻译此页](#)

作者: T Noma - 被引用次数: 378 - [相关文章](#)

2007年9月9日 - **β-arrestins mediate** β1AR **signaling** to **the** EGFR. Currently, **controversy** exists as to **the** physiological role of **β-arrestin-mediated** EGFR

[全部](#)[新闻](#)[图片](#)[视频](#)[购物](#)[更多](#)[设置](#)[工具](#)

找到约 65,000 条结果 (用时 0.41 秒)

[β-Arrestin-mediated Signaling Regulates Protein Synthesis - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2447657/)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2447657/> [翻译此页](#)

作者: SM DeWire - 2008 - 被引用次数: 93 - 相关文章

One of **the** most well studied targets of **β-arrestin-mediated signaling** from roles of Mnk1 and eIF4E in **the** regulation of this process have been **controversial** .

[Mechanisms of Biased β-Arrestin-Mediated Signaling ... - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pubmed/27009233)

<https://www.ncbi.nlm.nih.gov/pubmed/27009233> [翻译此页](#)

作者: F Delgado-Peraza - 2016 - 被引用次数: 27 - 相关文章

2016年3月23日 - Mechanisms of Biased **β-Arrestin-Mediated Signaling** Downstream from **the** Cannabinoid 1 Receptor. Delgado-Peraza F(1), Ahn KH(1), ...

缺少字词: [controversy](#)

[Mechanisms of Biased β-Arrestin-Mediated Signaling ... - NCBI - NIH](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885504/)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4885504/> [翻译此页](#)

作者: F Delgado-Peraza - 2016 - 被引用次数: 27 - 相关文章

2016年6月23日 - Activation of G protein-coupled receptors results in multiple waves of **signaling** that are **mediated** by heterotrimeric G proteins and **the** ...

缺少字词: [controversy](#)

[Emerging Roles for β-arrestins in Developmental Signaling Pathways](https://www.sciencedirect.com/science/article/pii/S1534580709003931)

<https://www.sciencedirect.com/science/article/pii/S1534580709003931> - [翻译此页](#)

作者: JJ Kovacs - 2009 - 被引用次数: 177 - 相关文章

2009年10月20日 - However, **the** involvement of G protein-**mediated signaling** activity downstream of Smo has remained **controversial**. Recently, a study has ...

[Structural basis of arrestin-3 activation and signaling | Nature ...](https://www.nature.com/nature/communications/articles)

<https://www.nature.com/nature/communications/articles> - [翻译此页](#)

作者: Q Chen - 2017 - 被引用次数: 13 - 相关文章

2017年11月10日 - This **arrestin-mediated signaling** regulates cell proliferation and apoptosis