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- 2016 (18,376)

Author Name

- Aggarwal, B.B. (16)
- Javanbakht, J. (15)
- Yahaghi, E. (14)
- Gao, D.Y. (11)
- Bouza, E. (10)

Subject Area

- Medicine (8,063)
- Biochemistry, Genetics and Molecular Biology (4,414)
- Agricultural and Biological Sciences (2,121)
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1	Corrigendum to: Re-examining the youth program quality survey as a tool to assess quality within youth programming (Cogent Psychology, (2016), 3, (1149265), 10.1080/23311908.2016.1149265) View at Publisher	Bean, C., Tanya, T.	2016	Cogent Psychology	0
2	Erratum to: Childhood and adolescent sexual behaviors predict adult sexual orientations (Cogent Psychology, (2015), 2, 1, 10.1080/23311908.2015.1067568) View at Publisher	[No author name available]	2016	Cogent Psychology	0
3	Erratum: Modeling the excitation of graphene plasmons in periodic grids of graphene ribbons: An analytical approach (Physical Review B - Condensed Matter and Materials Physics (2016) 94 (195421) DOI: 10.1103/PhysRevB.94.195421) View at Publisher	[No author name available]	2016	Physical Review B - Condensed Matter and Materials Physics	0
4	Erratum to: Treatment of 5 dogs with immune-mediated thrombocytopenia using romiplostim [BMC Vet Res., 12 (2016) (96)], DOI:10.1186/s12917-016-0718-4 View at Publisher | Show abstract Related documents	Kohn, B., Bal, G., Chirek, A., Rehbein, S., Salama, A.	2016	BMC Veterinary Research 12 (1), 290 Open Access	0 Cited by
5	Erratum: Analogous intruder behavior near Ni, Sn, and Pb isotopes (Physical Review C (2015) 92 (024319) DOI: 10.1103/PhysRevC.92.024319) View at Publisher	[No author name available]	2016	Physical Review C - Nuclear Physics	0
6	Erratum to "Kinetic modelling of molten carbonate fuel cells: Effects of cathode water and electrode materials" (Journal of Power Sources (2016) 330 (18–27) (S0378775316311430) (10.1016/j.jpowsour.2016.08.123))	Arato, E., Audasso, E., Barelli, L., Bosio, B., Discepoli, G.	2016	Journal of Power Sources	0

Статья из Sci-Hub

Cell

A Pleiotropically Acting MicroRNA, miR-31, Inhibits Breast Cancer Metastasis

Scott Valastyan,[1,2] Ferenc Reinhardt,[1] Nathan Benaich,[1,3] Diana Calogrias,[4] Attila M. Szász,[4] Zhigang C. Wang,[5,6] Jane E. Brock,[4] Andrea L. Richardson,[4] and Robert A. Weinberg[1,2,7,*]
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SUMMARY

MicroRNAs are well suited to regulate tumor metastasis because of their capacity to coordinately repress numerous target genes, thereby potentially enabling their intervention at multiple steps of the invasion-metastasis cascade. We identify a microRNA exemplifying these attributes, miR-31, whose expression correlates inversely with metastasis in human breast cancer patients. Overexpression of miR-31 in otherwise-aggressive breast tumor cells suppresses metastasis. We deploy a stable micro-

invasion-metastasis cascade, which leads to these growths, is a complex, multistep process involving the escape of neoplastic cells from a primary tumor (local invasion), intravasation into the systemic circulation, survival during transit through the vasculature, extravasation into the parenchyma of distant tissues, the establishment of micrometastases, and ultimately the outgrowth of macroscopic secondary tumors (colonization) (Fidler, 2003).

MicroRNAs (miRNAs) constitute an evolutionarily conserved class of pleiotropically acting small RNAs that suppress gene expression posttranscriptionally via sequence-specific interactions with the 3′ untranslated regions (UTRs) of cognate mRNA targets (Bartel, 2009). In mammalian cells, miRNAs effect gene

A Pleiotropically Acting MicroRNA, miR-31, Inhibits Breast Cancer Metastasis (Retracted article. See vol. 161, pg. 417, 2015)

Автор: Valastyan, S (Valastyan, Scott)[1,2]; Reinhardt, F (Reinhardt, Ferenc)[1]; Benaich, N (Benaich, Nathan)[1,3]; Calogrias, D (Calogrias, Diana)[4]; Szasz, AM (Szasz, Attila M.)[4]; Wang, ZGC (Wang, Zhigang C.)[5,6]; Brock, JE (Brock, Jane E.)[4]; Richardson, AL (Richardson, Andrea L.)[4]; Weinberg, RA (Weinberg, Robert A.)[1,2,7]

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Аннотация

MicroRNAs are well suited to regulate tumor metastasis because of their capacity to coordinately repress numerous target genes, thereby potentially enabling their intervention at multiple steps of the invasion-metastasis cascade. We identify a microRNA exemplifying these attributes, miR-31, whose expression correlates inversely with metastasis in human breast cancer patients. Overexpression of miR-31 in otherwise-aggressive breast tumor cells suppresses metastasis. We deploy a stable microRNA sponge strategy to inhibit miR-31 in vivo; this allows otherwise-nonag
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via coordinate repression of a cohort of metastasis-promoting genes, including RhoA. Indeed, RhoA re-expressi
metastasis suppression. These findings indicate that miR-31 uses multiple mechanisms to oppose metastasis.

Ключевые слова

KeyWords Plus: EXPRESSION SIGNATURE; TUMOR INVASION; MAMMARY-TUMOR; CELLS; RNAS; SURV

Информация об авторе

Адрес для корреспонденции: Weinberg, RA (автор для корреспонденции)

Сеть цитирований

Статья на ScienceDirect

- **A pleiotropically acting microRNA, miR-31, inhibits breast cancer metastasis. CELL, JUN 12 2009**

Cell

A Pleiotropically Acting MicroRNA, miR-31, Inhibits Breast Cancer Metastasis

Scott Valastyan,[1,2] Ferenc Reinhardt,[1] Nathan Benaich,[1,3] Diana Calogrias,[4] Attila M. Szász,[4] [illegible] Jane E. Brock,[4] Andrea L. Richardson,[4] and Robert A. Weinberg[1,2,7,*]
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*Correspondence: weinberg@wi.mit.edu
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RETRACTED

SUMMARY

MicroRNAs are well suited to regulate tumor metastasis because of their capacity to coordinately repress numerous target genes, thereby potentially enabling their intervention at multiple steps of the invasion-metastasis cascade. We identify a microRNA exemplifying these attributes, miR-31, whose expression correlates inversely with metastasis in human breast cancer patients. Restoration of miR-31 in otherwise-aggressive breast tumor cells suppresses metastasis. We deploy a versatile microRNA sponge strategy to inhibit miR-31 in vivo; this allows otherwise-nonaggressive breast cancer cells to metastasize. These phenotypes do not involve confounding influences on primary tumor development and are specifically attributable to miR-31-mediated inhibition of several steps of metastasis, including local invasion, extravasation or initial survival at a distant site, and metastatic colonization. Such pleiotropy is achieved via coordinate repression of a cohort of metastasis-promoting genes, including RhoA. Indeed, RhoA re-expression partially reverses miR-31-imposed metastasis suppression. These findings indicate that miR-31 uses multiple mechanisms to oppose metastasis.

For a video summary of this article, see the PaperFlick file available with the online Supplemental Data.

INTRODUCTION

Metastases account for 90% of human cancer deaths (Gupta and Massagué, 2006), yet our understanding of the molecular circuitry that governs metastatic dissemination remains fragmentary. The invasion-metastasis cascade, which leads to these growths, is a complex, multistep process involving the escape of neoplastic cells from a primary tumor (local invasion), intravasation into the systemic circulation, survival during transit through the vasculature, extravasation into the parenchyma of distant tissues, the establishment of micrometastases, and ultimately the outgrowth of macroscopic secondary tumors (colonization) (Fidler, 2003).

MicroRNAs (miRNAs) constitute an evolutionarily conserved class of pleiotropically acting small RNAs that suppress gene expression posttranscriptionally via sequence-specific interactions with the 3′ untranslated regions (UTRs) of cognate mRNA targets (Bartel, 2009). In mammalian cells, miRNAs effect gene silencing via both translational inhibition and mRNA degradation; an individual miRNA is capable of regulating dozens of distinct mRNAs, and together the >650 human miRNAs are believed to modulate more than one-third of the mRNA species encoded in the genome (Bartel, 2009).

A central role for miRNAs in the establishment and progression of human tumors has begun to emerge. More than 50% of miRNA-encoding loci reside in chromosomal regions altered during tumorigenesis (Calin et al., 2004), and expression profiling reveals characteristic miRNA signatures for many tumor types—including breast neoplasias—that predict disease status and clinical outcome (Calin and Croce, 2006). In addition, miRNAs have been identified that function as classical oncogenes or tumor suppressor genes (Ventura and Jacks, 2009), as well as a limited number that act at late stages of tumor progression (Ma et al., 2007; Tavazoie et al., 2008; Huang et al., 2008; Asangani et al., 2008; Zhu et al., 2008; Lujambio et al., 2008).

The extent to which miRNAs specifically affect metastasis remains unclear, because all the miRNAs reported to affect metastasis also exert potentially confounding influences on primary tumor development, apoptosis, and/or cell proliferation (Voorhoeve et al., 2006; Sathyan et al., 2007; Ma et al., 2007; Si et al., 2007; Tavazoie et al., 2008; Kondo et al., 2008; Lujambio et al., 2008). Moreover, a role for miRNAs in steps of the invasion-


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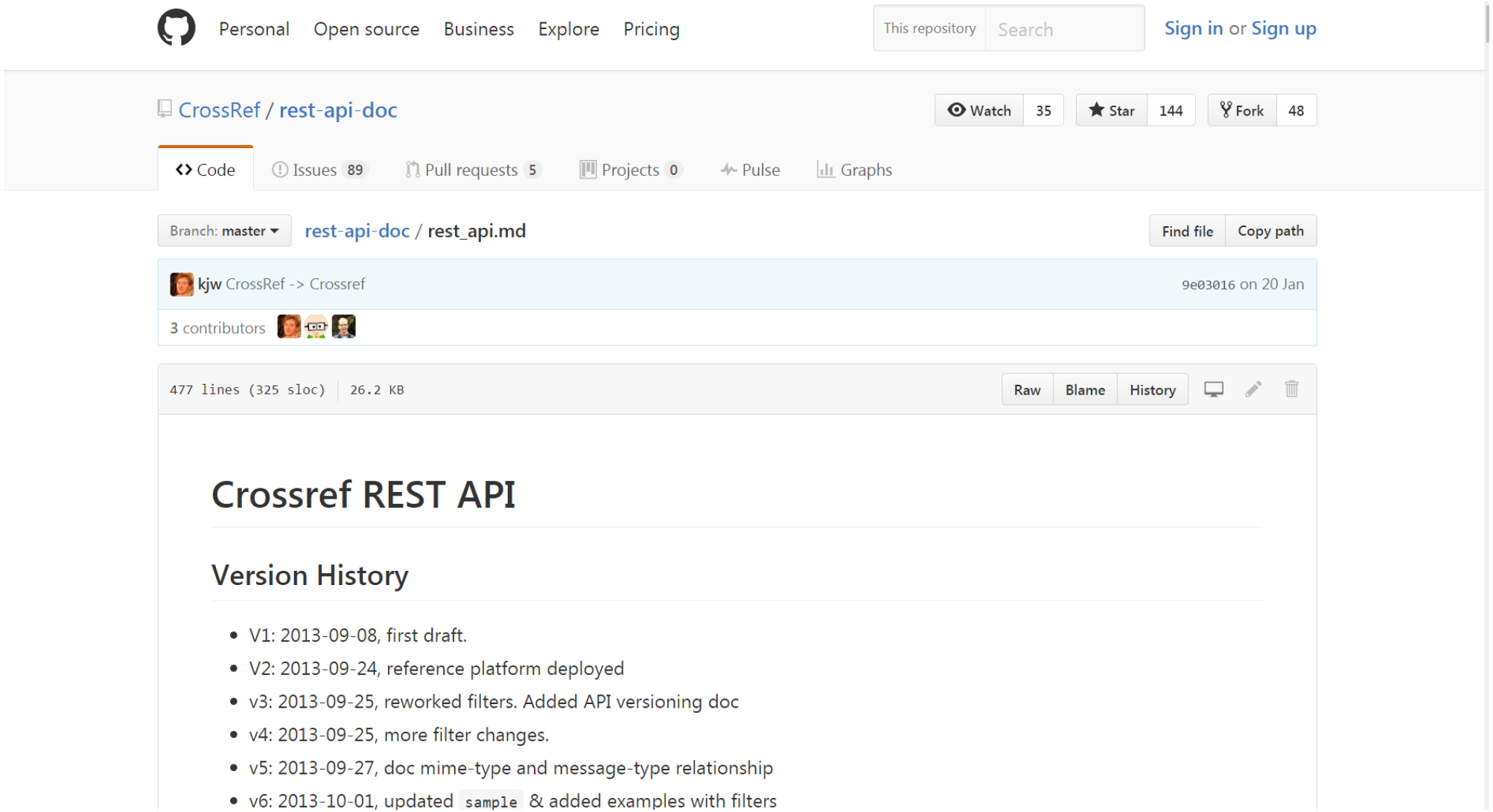

doi	заглавие статьи	издательство	название журнала	год	Загрузки	тематика
10.1016/j.physb.2004.07.005	Simulation of Young's modulus of single-walled carbon nanotubes by molecular dynamics	**Elsevier**	**Physica B: Condensed Matter**	2004	**99**	Physics and Astronomy
10.1111/dote.12086	Modified gastric pull-up reconstructions following pharyngolaryngectomy with total esophagectomy	**John Wiley & Sons**	**Diseases Of The Esophagus**	2014	**90**	Medicine
10.1007/s10658-013-0246-z	Lichens-a new source or yet unknown host of herbaceous plant viruses?	**Springer**	**European Journal Of Plant Pathology**	2014	**62**	Agricultural and Biological Sciences
10.1007/s00216-011-5354-z	DocumentSimultaneous LC-MS/MS determination of aflatoxin M 1, ochratoxin A, deoxynivalenol, de-epoxydeoxynivalenol, α and β-zearalenols and fumonisin B 1 in urine as a multi-biomarker method to assess exposure to mycotoxins	**Springer**	**Analytical And Bioanalytical Chemistry**	2011	**56**	Biochemistry, Genetics and Molecular Biology
10.1016/j.molliq.2015.10.041	Spectroscopic, electrochemical, DNA binding and antioxidant biomimetic catalytic activities of metformin-based copper(II) complexes	**Elsevier**	**Journal Of Molecular Liquids**	2015	**49**	Chemistry
10.1002/app.1988.070360706	Degradation of acrylamide–sodium acrylate copolymer in aqueous solution	**John Wiley and Sons**	**Journal Of Applied Polymer Science**	1988	**43**	Chemistry
10.1093/humupd/dmr003	Preimplantation genetic screening: A systematic review and meta-analysis of RCTs	**Oxford University Press**	**Human Reproduction Update**	2011	**43**	Medicine
10.1111/j.1538-7836.2012.04851.x	Intra-articular injection of mesenchymal stem cells expressing coagulation factor ameliorates hemophilic arthropathy in factor VIII-deficient mice	**Wiley-Blackwell**	**Journal of Thrombosis and Haemostasis**	2012	**42**	Medicine
10.1016/j.fertnstert.2013.04.039	Cleavage-stage biopsy significantly impairs human embryonic implantation potential while blastocyst biopsy does not: A randomized and paired clinical trial	**Elsevier**	**Fertility and Sterility**	2013	**41**	Medicine

Название журнала	Квартиль	Издательство	Тематика	Загрузки
Journal of the American Chemical Society	Q1	American Chemical Society Publications (ACS Publications)	Colloid and Surface Chemistry, Biochemistry, Chemistry(all), Catalysis	**1127**
The Journal of Organic Chemistry	Q2	American Chemical Society Publications (ACS Publications)	Organic Chemistry	**671**
Journal of Applied Physics	Q2	AIP Publishing	Physics and Astronomy	**647**
Physical Review B	Q1	American Physical Society	Engineering(all)	**643**
Organic Letters	Q1	American Chemical Society Publications (ACS Publications)	Physical and Theoretical Chemistry, Organic Chemistry, Biochemistry	**624**
Applied Physics Letters	Q1	AIP Publishing	Physics and Astronomy (miscellaneous)	**605**
The Chemical Educator	-	Springer-Verlag (1996-2002)	Chemistry(all)	**567**
Tetrahedron Letters	Q2	Elsevier	Organic Chemistry, Biochemistry, Drug Discovery	**508**
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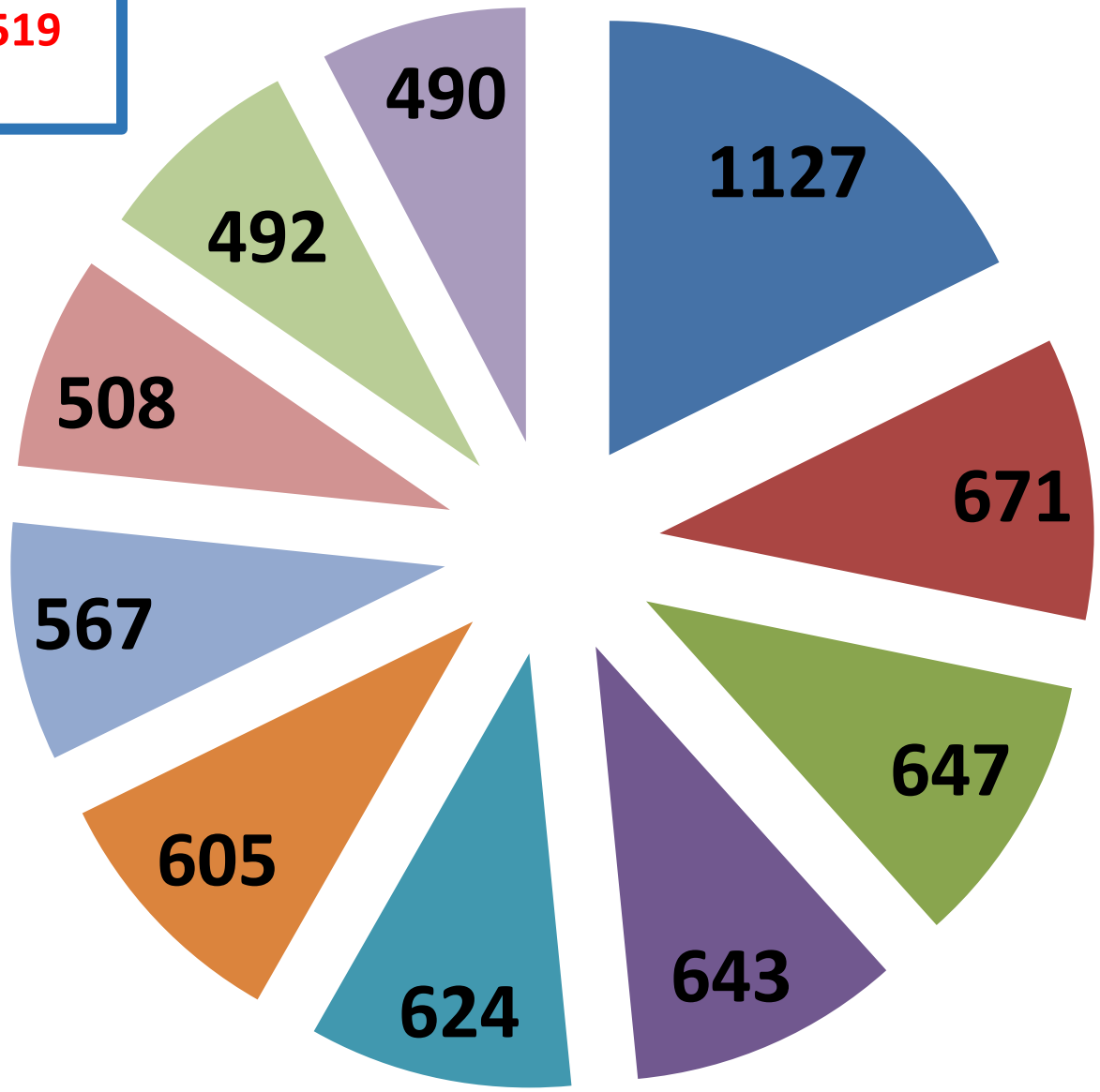

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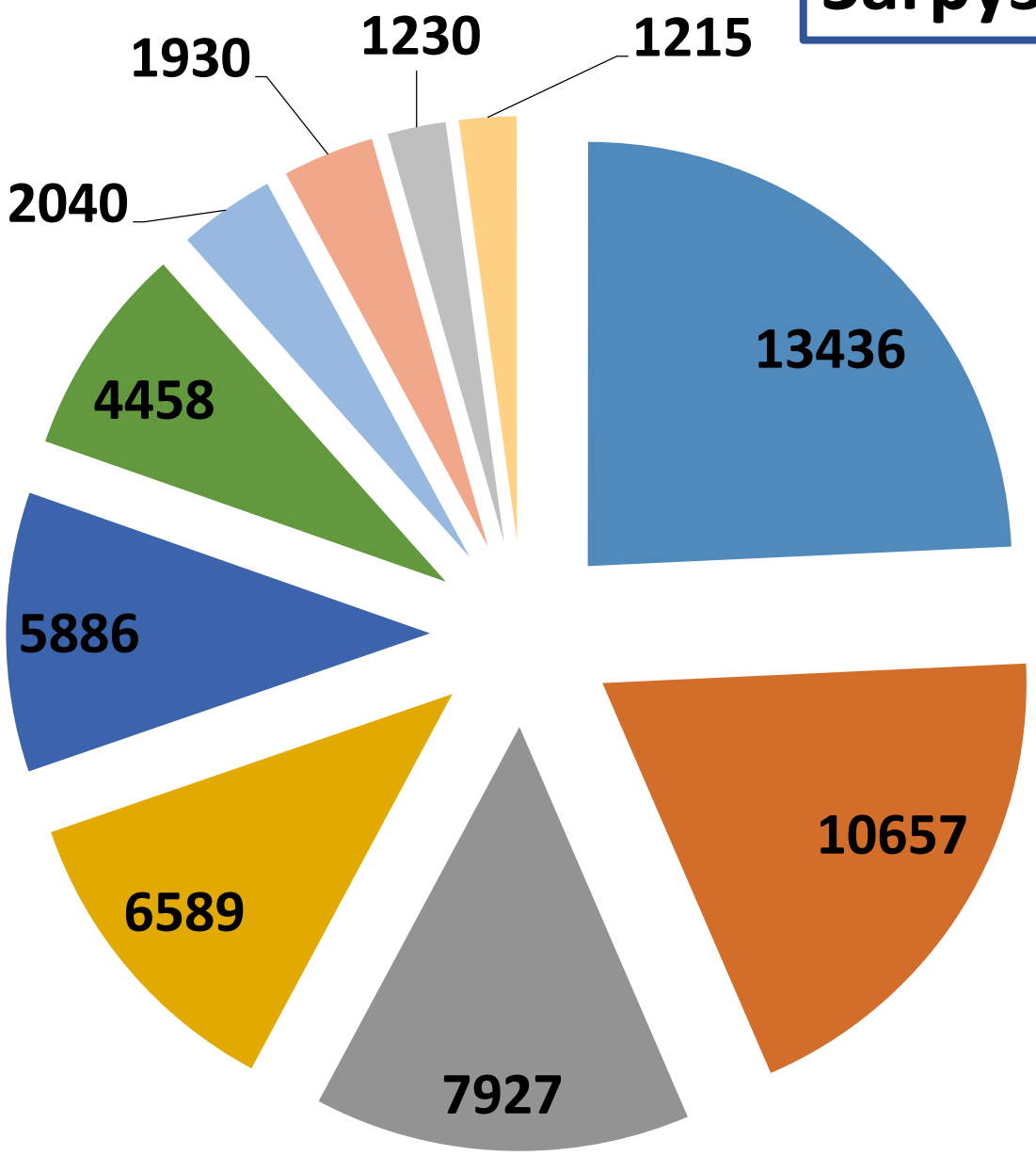

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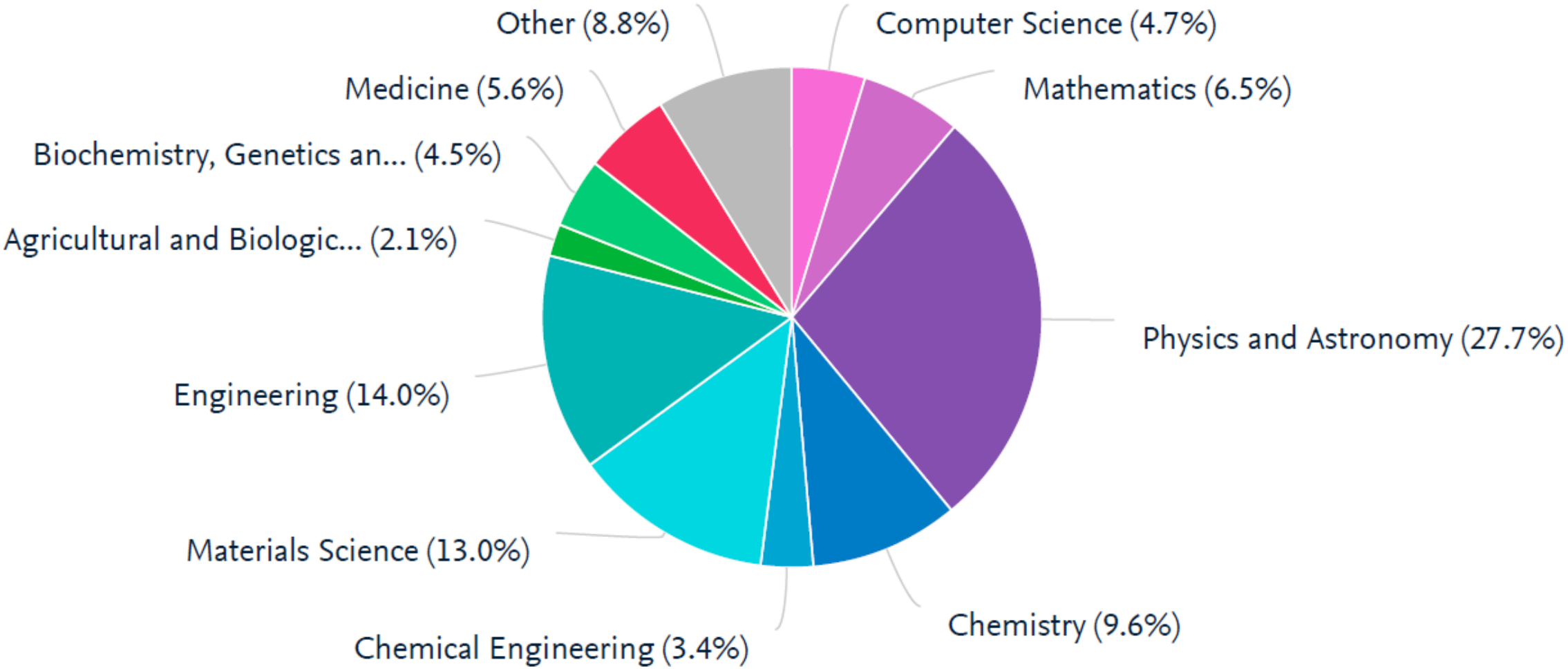

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Elsevier	24182
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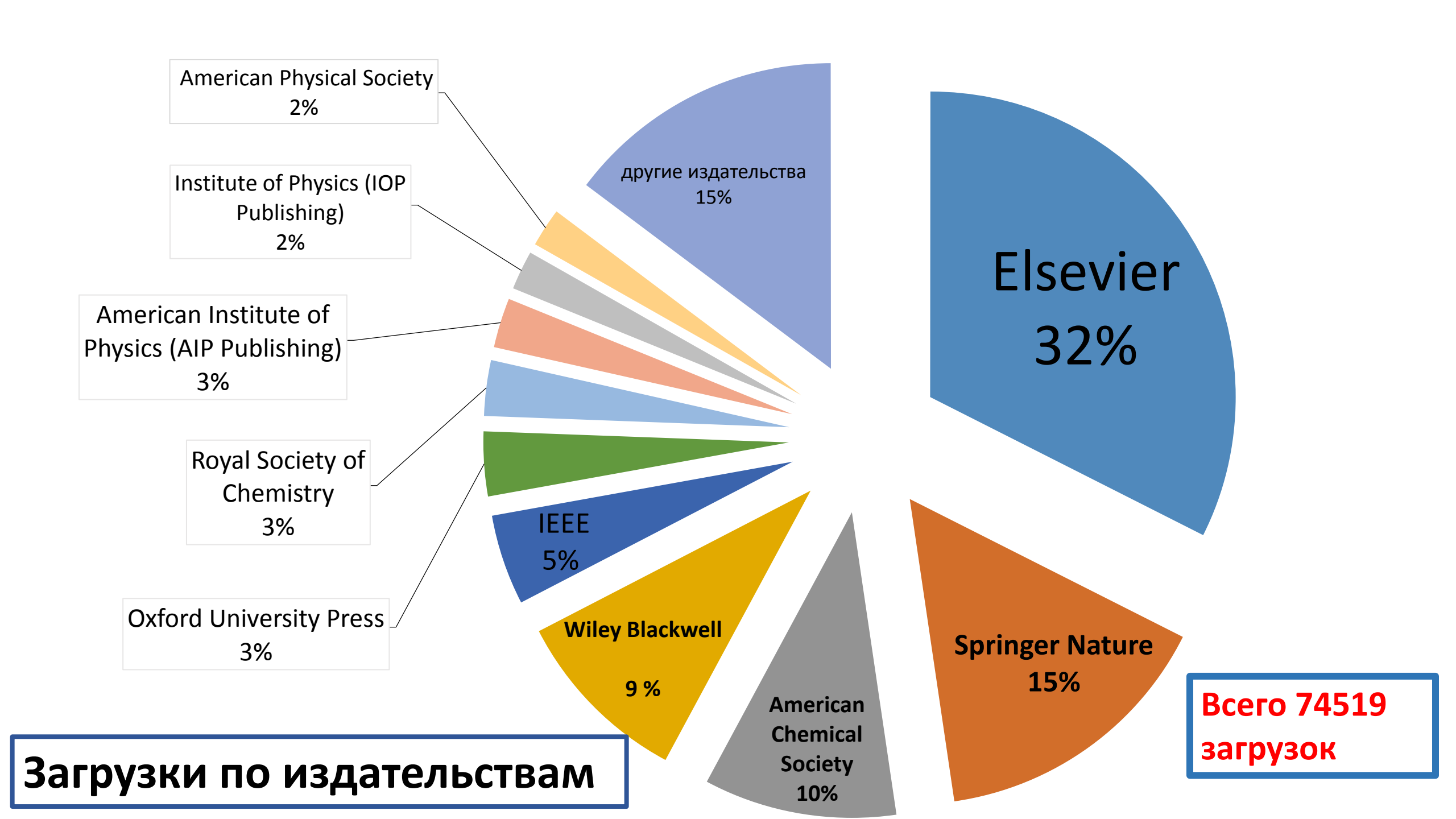

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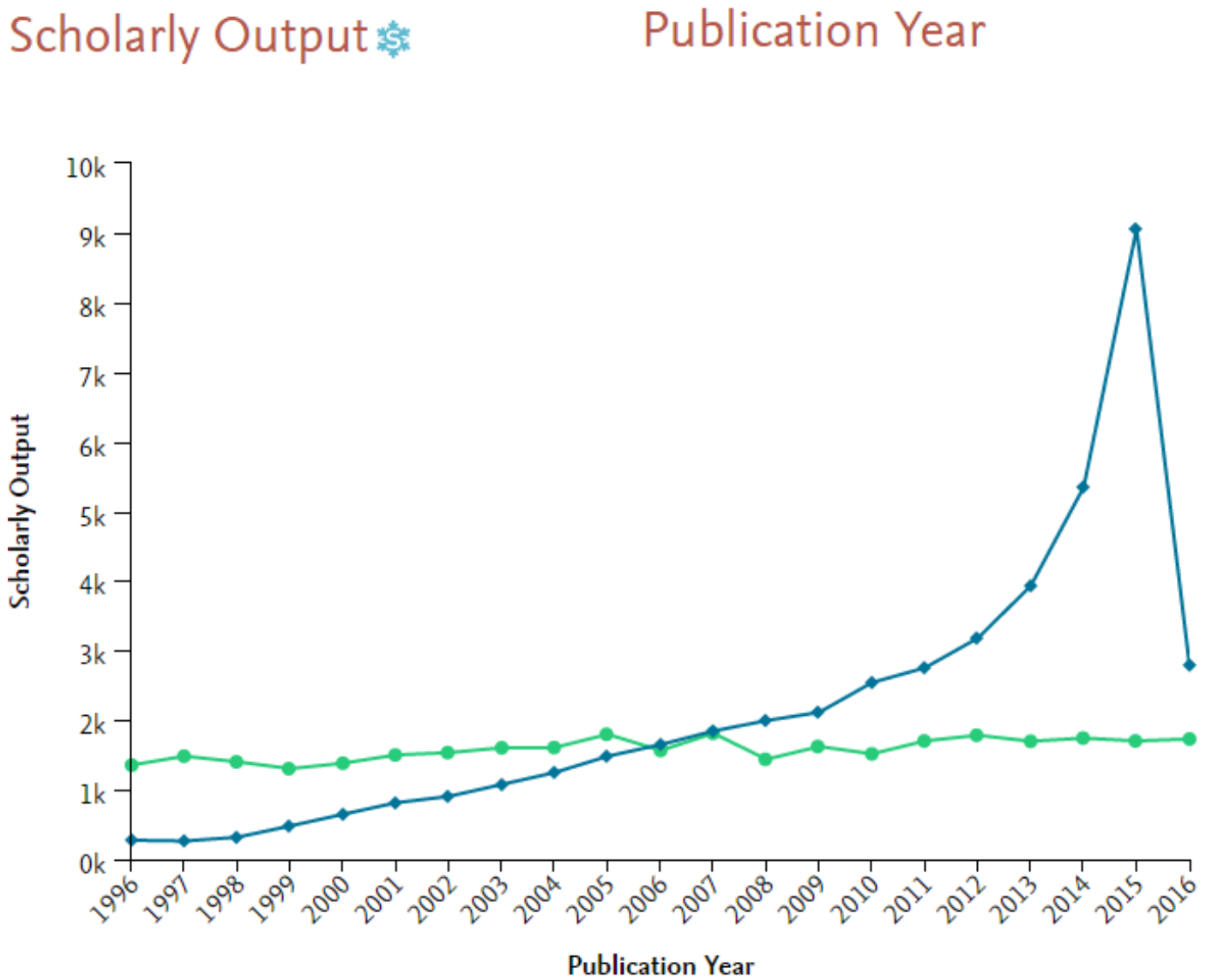

Выводы

- Зарубежные научные журналы востребованы в Беларуси
- Необходимо обеспечивать легальный доступ к научным информационным ресурсам для организаций (ACS – 0 подписок)
- Анализ статистики использования Sci-Hub – еще один источник для формирования подписки организации, а также для организации национальной подписки.
- Библиотекарям необходимо знать о пиратских ресурсах, но вести разъяснительную работу о последствиях их использования

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Date Published: April 28, 2016
DOI: 10.5061/dryad.q447c

Bohannon, J.
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DOI: 10.1126/science.352.6285.508

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Piracy of scientific papers in Latin America. *Information Development б* Vol 32, Issue 5, pp. 1806 - 1814
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