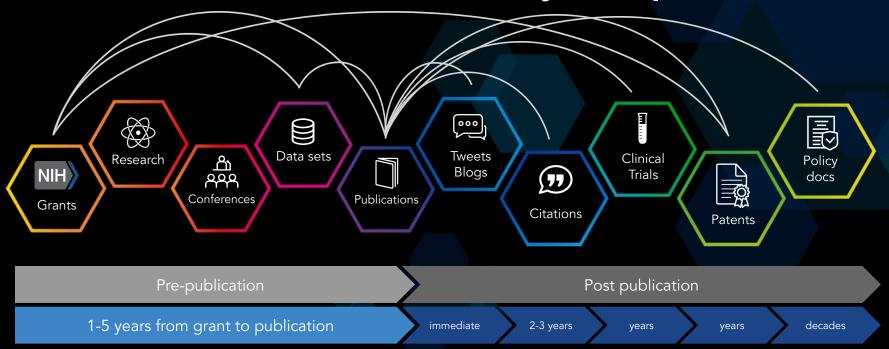


# Данные в Dimensions - взаимосвязанные и контекстуализированные





# Экосистема поддержки производства знаний Digital Science







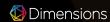
# DIMENSIONS app.dimensions.ai



## Данные в Dimensions и дорожная карта развития

	Q1 2018	Q2 2018	Q3 2018	Q4 2018	2019	End 2019
Publications	★ 89m	+3m	+3m	+3m	100m	+7m
Grants	<b>★</b> 3.7m	+200k	+200k	+200k	4.5m	+600k
Patents	<b>★</b> 35m	+500k	+500k	+2m	38m	+80m
Clinical trials	<b>★</b> 380k	+20k	+20k	+25k	445k	+50k
Policy docs			<b>★</b> 365k	+20k	422k	+50k
Data sets						<b>★</b> 800k

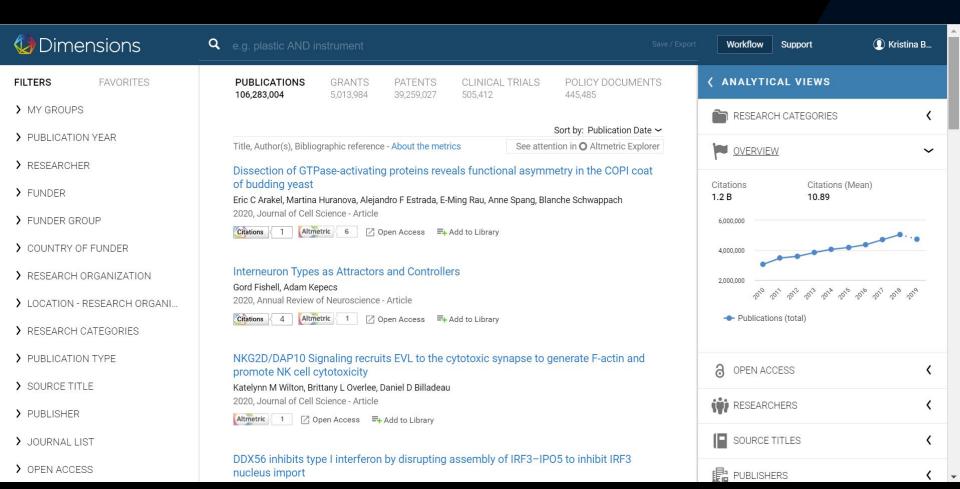






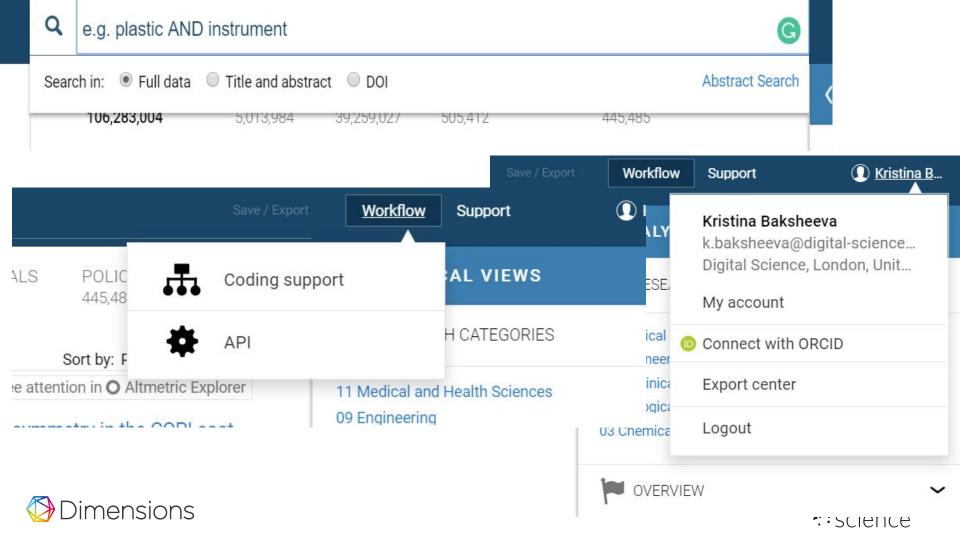
# Перейдем к практической части, открываем платформу Dimensions Analytics по ссылке app.dimensions.ai





! Рекомендовано создать личную учетную запись в Dimensions для более эффективного использования платформы





### Как эффективно осуществлять поиск в Dimensions?

- Ввод ключевых слов в поиск несколько видов поиска
- Full text платформа осуществляет поиск по ключевым словам по всем массивам данных;
- Title and abstract поиск по совпадениям ключевых слов только в названиях и описаниях статей, грантов, патентов и тд.
- DOI поиск по DOI URL или по самому DOI статьи
- Abstract Search поиск осуществляется по наиболее близкому соответствию добавленного в поиск описания статьи или ее части (гранта, патента) с результатами поиска по всему массиву данных Dimensions





#### Использовать логические операторы для поиска по нескольким ключевым словам:

- And возвращает значения, где содержатся все перечисленные слова, например - green and blue - в результатах поиска отобразятся варианты, где представлены оба значения;
- Or возвращает значения, где содержится одно или другое ключевое слово, но не одновременно;
- Not возвращает значения при условии отсутствия в них слова после not: например, green not blue возвращает все данные со словом green при условии, что там нет слова blue





## Методы усовершенствования поиска

Знак	Название	Описание				
()	скобки	Если вы введете green AND blue OR purple, он вернет все элементы, которые имеют зеленый и синий плюс любые элементы, которые имеют фиолетовый. Но если вы введете green AND (blue OR purple), то он вернет любой элемент, который имеет зеленый и синий или зеленый и фиолетовый.				
	Двойные кавычки	Если вы поместите текст в кавычки, он найдет только точное соответствие "зеленый синий" и вернет только те элементы, которые включают этот точный термин. Элементы, которые включают "синий зеленый" или где оба слова находятся в разных местах, не будут восстановлены. Обратите внимание: звездочка в двойных кавычках будет проигнорирована.				
*	Звездочка	Звездочка-это очень полезная функция, которая позволяет искать однокорневые слова. Если вы введете green*, он будет искать любые слова, начинающиеся с зеленого, такие как greenery, greener, Greensmith и т. д. Будьте осторожны с этим, так как непродуманное использование может вернуть гранты по неожиданным направлениям. Например, поиск plac* в надежде найти "plastic", "plastics", "plasticity" и т. также вернет "plasmodium" и т. д				





## Методы усовершенствования поиска

Знак	Название	Описание
····~	Смысловой поиск	Использование данных символов ищет слова, расположенные в непосредственной близости друг от друга. Например, "яблочный пирог вкусный" ~3 будет искать слова "яблоко", "пирог" и "вкусный" с максимальным разделением между словами в 3 слова:
		"apple delicious pie" (distance: 2)
		"apple extra words here pie delicious" (distance: 3)
		"apple some words pie separated delicious" (distance: 3).
		Но тем не менее, результаты не будут возвращены в случаях
		"delicious apple pie" (distance: 4)
		"apple too many extra words here pie delicious" (distance: 5)
		"apple some words pie further separated delicious" (distance: 4)
D	imensions	<b>₩DIGITAL</b>

Более подробная информация обо всех типах данных, источниках, классификаторах и категориях всегда доступна в центре поддержки пользователей Dimensions Analytics по адресу

https://support-analytics.dimensions.ai/support/home





#### Ваши главные союзники - фильтры!

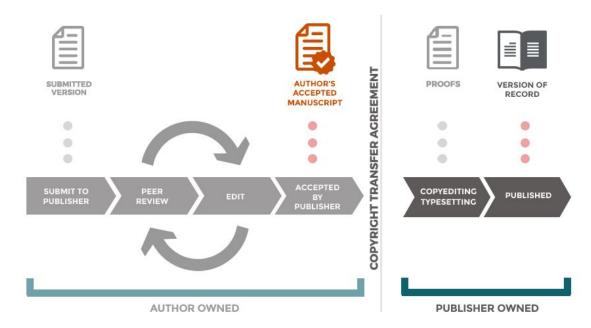
#### Publications -

- Глубина архива до 1665 года
- Общее количество публикаций 106,3 млн.
- Researcher, Research organization, Location of Research organization
- Funder, Country of Funder, Funder Group
- Research Categories, incl. Fields of Research, Research,
  Condition, and Disease Categorization (RCDC), Health Research
  Classification System Health Categories (HCRC HC), Health
  Research Classification System Research Activity Classifications
  (HCRS RAC), Health Research Areas (HRA), Broad Research
  Areas (BRA)





- Hybrid статьи как журналов ОА, так и подписных;
- Bronze "отложенный" ОА сначала статьи доступны в данных журналах только по подписке, после эмбарго статьи свободны для чтения. Подписчики получают возможность раньше читать статьи, но не использовать их повторно.







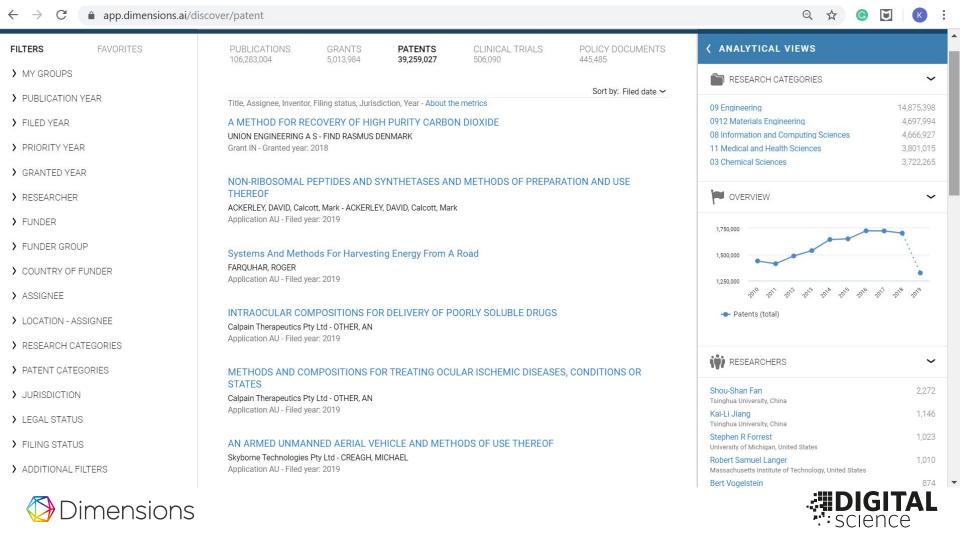
- Publication type статья, книга, препринт, изданная книга и тд
- Source title Название источника, журнала
- Publisher издатель, издательский дом
- Journal list журнальные списки, в т.ч. DOAJ, Norwegian Register, Nature Index Journal, PubMed и тд.
- Open access
- Pure Gold статья размещена в журнале открытого доступа, может использоваться для научных исследований;
- Green Submitted статьи, поданные на рассмотрение в журнал (не всегда последняя версия статьи доредакционная версия), копия размещена в репозитории открытого доступа;
- Green Accepted статья рецензированная и после редактуры, копия размещена в репозитории открытого

Dimensions, — Green Published - статья опубликованная в журнале, копия: science

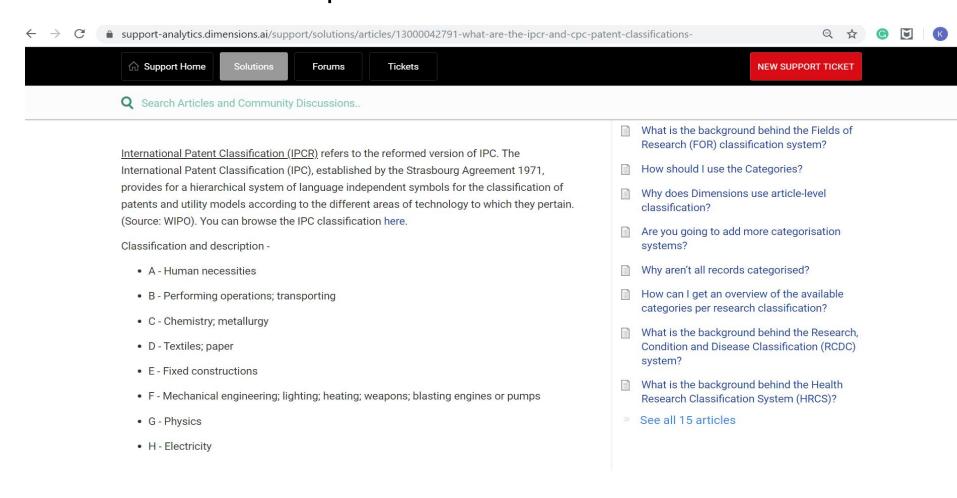
<b>②</b> Dimensions	<b>Q</b> e.g. plastic AND instrument	Save / Export	Workflow Support	() Kristina B	
FILTERS FAVORITES	PUBLICATIONS <b>GRANTS</b> PATENTS CLINICAL TRIALS 106.283,004 <b>5,013,984</b> 39,259,027 506,090	POLICY DOCUMENTS 445,485	〈 ANALYTICAL VIEWS		
➤ MY GROUPS			RESEARCH CATEGORIES	<	
Create a group by selecting multiple entities from one of the filters and click 'Add to group' at the bottom.		Sort by: Start Date ➤ nding amount (USD), period  1.658.484	overview	~	
> START YEAR	European Research Council to Ori Lahav	2020 - 2025	Aggregated funding amount Average funding an USD 1.6 T USD 403 K		
> ACTIVE YEAR > GRANT STATUS	Institut Curie EuReCa PhD Programme European Commission	3,630,458 2020 - 2025	1,600,000		
> RESEARCHER	Health and economic impacts of urban heat islands and greenspace	661,818	••••		
) FUNDER	Wellcome Trust to Clare Helen Heaviside, James Grellier, Timothy James Taylor, Jonathon Taylor, Benedict William V	2020 - 2023 Wheele	pi <sup>©</sup> pi <sup>1</sup> pi <sup>0</sup> pi <sup>0</sup> pi <sup>1</sup> pi <sup>1</sup> pi <sup>0</sup> pi <sup>0</sup> pi <sup>1</sup> pi		
> FUNDER GROUP	How To Be Disabled: Shaping the Future for Everyone	60,000	<ul> <li>Active grants (total)</li> <li>Starting</li> </ul>	grants (total)	
> COUNTRY OF FUNDER	National Endowment for the Humanities to Rosemarie Garland-Thomson	2020 - 2021	RESEARCHERS	(	
<ul> <li>RESEARCH ORGANIZATION</li> <li>LOCATION - RESEARCH ORGANIZATION</li> </ul>	Advanced EUV/soft X-ray microscopy in the ultrafast regime: imaging functionalinanomaterials across length scales	ty of 2,167,694 2020 - 2025	FUNDERS	~	
> RESEARCH CATEGORIES	European Research Council to Giulia Fulvia Mancini		European Commission (EC)	USD 139.5 B	
	Waste to Wealth (W2W): A total solution for municipal solid waste incinerated as geopolymer concrete	h in 231,892 2020 - 2022	Federal Ministry of Education and Reservements  Germany  National Cancer Institute (NCI)	arch (BMBF) USD 99.4 B USD 79.4 B	







#### Патентные категории - IPCR и CPC



the EPO and the US Patent and Trademark Office. It is divided into nine sections, A-H and Y,
which in turn are sub-divided into classes, sub-classes, groups and sub-groups. There are
approximately 250 000 classification entries. The CPC is constantly being expanded as new
technical fields emerge. (Source: EPO). You can browse the CPC classification here.
Classification and description:
A. Humaniana and A. Harris and
A - Human necessities

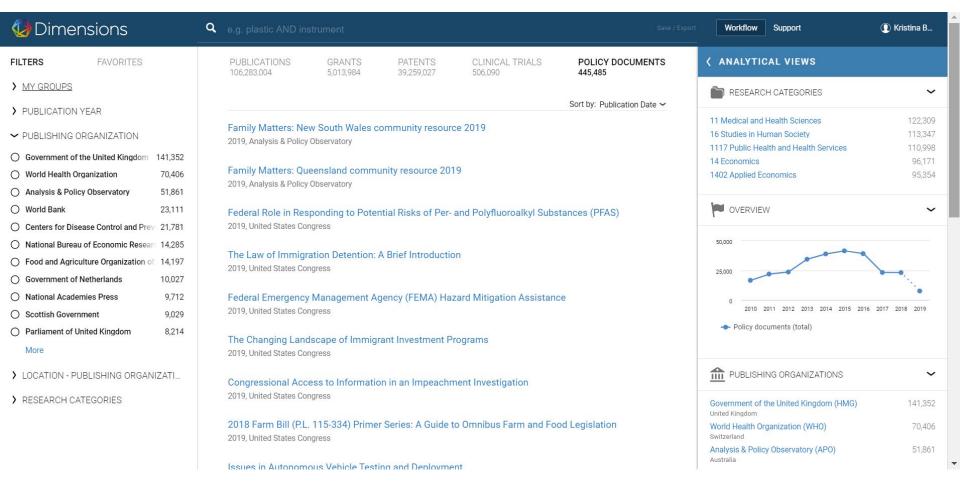
Cooperative Patent Classification (CPC) is an extension of the IPC and is jointly managed by

- B Performing operations; transporting
- C Chemistry; metallurgy
- D Textiles; paper
- E Fixed constructions
- F Mechanical engineering; lighting; heating; weapons; blasting engines or pumps
- G Physics
- H Electricity
- Y General tagging of new technological developments; general tagging of crosssectional technologies spanning over several sections of the IPC; technical subjects covered by former USPC cross-reference art collections [XRACs] and digests.

<b>O</b> Dimensions	<b>Q</b> e.g. plastic AND ins					Workflow Support	① Kristina B
FILTERS FAVORITES	PUBLICATIONS 106,283,004	GRANTS 5,013,984	PATENTS 39,259,027	CLINICAL TRIALS 506,090	POLICY DOCUMENTS 445,485	( ANALYTICAL VIEWS	
> MY GROUPS						RESEARCH CATEGORIES	~
> START YEAR	Title, Sponsor				Sort by: Start year ✓ Trial period	_	
					200000000000000000000000000000000000000	11 Medical and Health Sciences	420,484
› ACTIVE YEAR		The effect of tongue cleaning on the pharyngeal circumference and the body			2021 -	1103 Clinical Sciences	210,795
> CLINICAL TRIAL STATUS	Kyushu Dental Universit	y - Kyushu Dental Ur	niversity			1117 Public Health and Health Services 1112 Oncology and Carcinogenesis	94,947 58.798
, CLINICAL TRIAL STATOS						1102 Cardiorespiratory Medicine and Haemato	
> RESEARCHER	Measurement of the	e penetration eff	ect of S-flurbipro	fen into the knee joint cav	ity by 2021 -	1702 Gardioreophatory medicine and ridernate	7,01
> COLLABORATING FUNDER	epidermis-sticking external preparation for patients with osteoarthritis Kindai University - Kindai University Hospital				OVERVIEW OVERVIEW	~	
> FUNDER GROUP							
> COUNTRY OF FUNDER	liver resection			edia transformer tape use	after 2021 -	200,000	••••
> SPONSOR/COLLABORATOR	Yokohama City Universi	ty Hospital - Yokoha	ma City University Ho	ospital		0 2010 2011 2012 2013 2014 2015 2016	2017 2018 2019
> LOCATION - SPONSOR/COLLABORATOR	OCATION - SPONSOR/COLLABORATOR  Systematically Testing the Effects of Promotion Techniques on Children's Fruit and 2021 - 20		and 2021 - 2022	- Active clinical trials (total)			
> RESEARCH CATEGORIES	Vegetables Intake Tilburg School of Hum	anities and Digital S	ciences			<ul> <li>Starting clinical trials (total)</li> </ul>	
> CONDITION							
<b>&gt;</b> PHASE	Respect for Person Diverse Experiences		s Research Enrol	Iment Process: Incorpora	ting 2021 - 2022	RESEARCHERS	~
<b>&gt;</b> GENDER	Seattle Children's Hospi	tal - Seattle Children	's Hospital			Zatollah Asemi Kashan University of Medical Sciences, Iran	190
> REGISTRY						Boehringer Ingelheim	121
ur anti-morales	Anti-inflammatory A				2021 - 2021	Noelyn Anne Hung University of Otago, New Zealand	118
	University of Wisconsin-	-Madison - Universi	ty of Wisconsin-Mad	lison		Jason D Lickliter	89





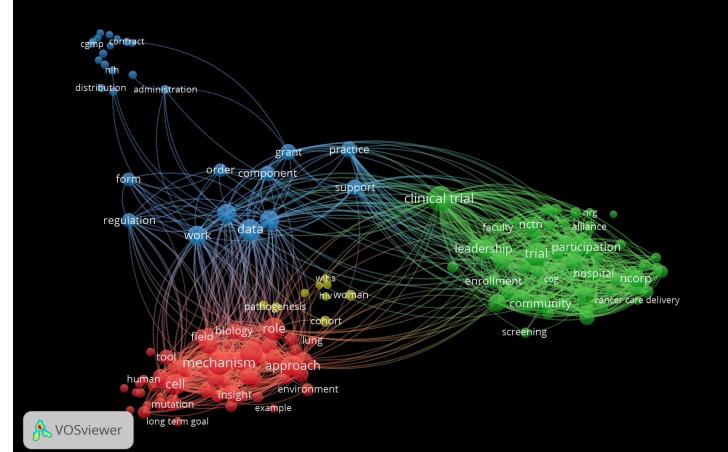






Профиль активных грантов NIH в 2025, 2026, 2027

году





levenshtam, v. b. uflyand, igor e. tyutyunov, yu. v. klimenko, anna soldatov, a v bezuglova, o. s. kozakov, a.t. yuzyuk, yu i soldatov, a.v. 🤍 shirokov, v. b. parinov, i. a vorobyov, eduard i. beato, pablo ermakov, s. f. torgashev, v. i. kochur, a. g. lamberti, carlo soldatov, alexander v. trigub, a. l. mikhailov, i. e. minkina, tatiana linnik, vitaly g. minkin, v kozinkin, a. v. zubavichus, yan v. павленко, а.в. dorogan, i. v. popov, I. d burlov, anatolii s. vatul'yan, a. o. tupaeva, i. o. minkin, vladimir i. raspopova, e. a. tsukanov, alexey v.

prokopenko, nikolay n.

zubov, l. m. babeshko, o. m. lerer, a.m.

shchekinov, yu. a.

bondarenko, t. i.

pozharskii, a.f.





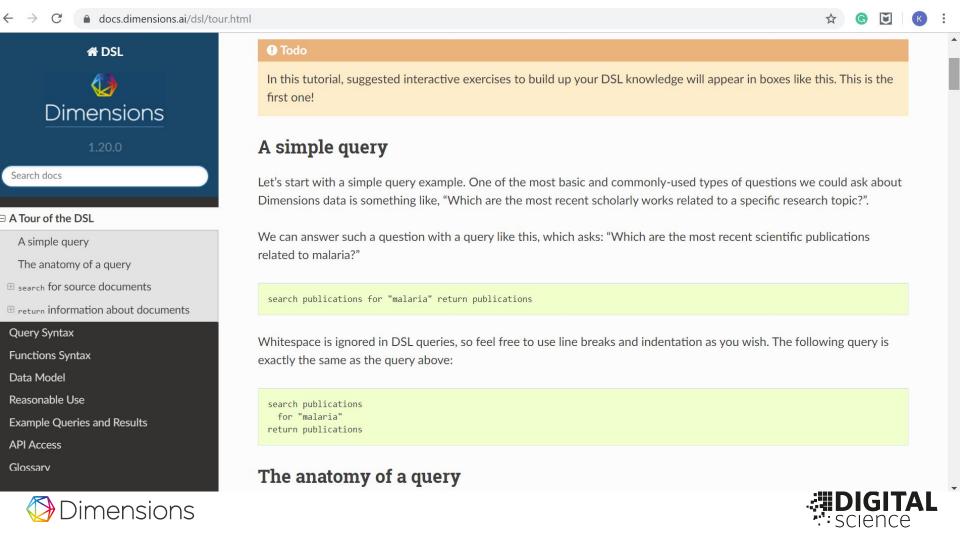


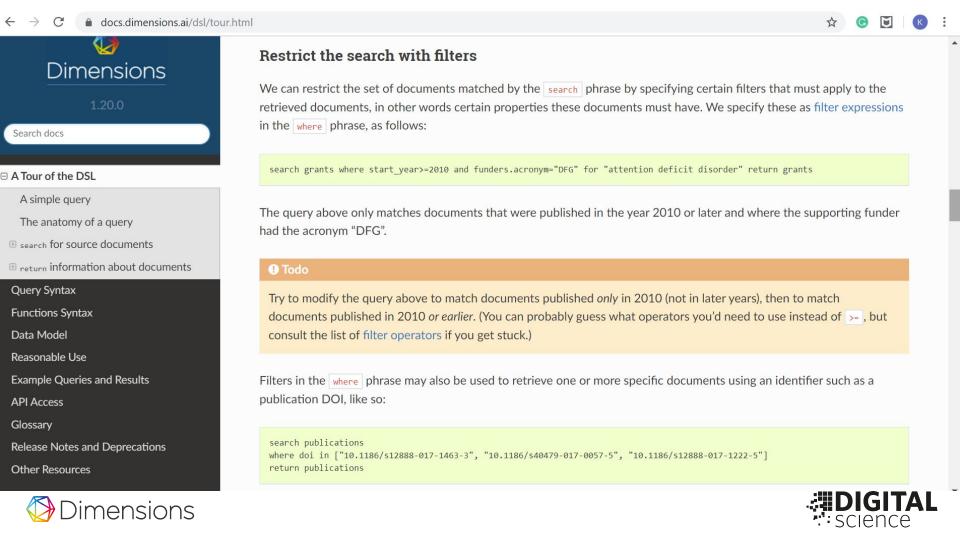
# Dimensions API - это возможность более глубокого

- анализа данных
   Библиотека Dimensions Search Language с подробными мануалами, примерами и описаниями данных всегда доступна по адресу <a href="https://docs.dimensions.ai/dsl/index.html">https://docs.dimensions.ai/dsl/index.html</a>
- Лаборатория Dimensions API с готовыми аналитическими запросами к системе хранистя в Jupyter notebook <a href="https://digital-science.github.io/dimensions-api-lab/">https://digital-science.github.io/dimensions-api-lab/</a>
- В случае дополнительных вопросов о работе с *DImensions API* всегда можно обратиться в службу поддержки <a href="mailto:supportapi@dimensions.ai">supportapi@dimensions.ai</a>



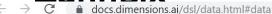






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данных













Search docs

A Tour of the DSL

**Query Syntax** 

**Functions Syntax** 

□ Data Model

Sources

**Entities** 

Literals

Cross Source Links Getting documentation

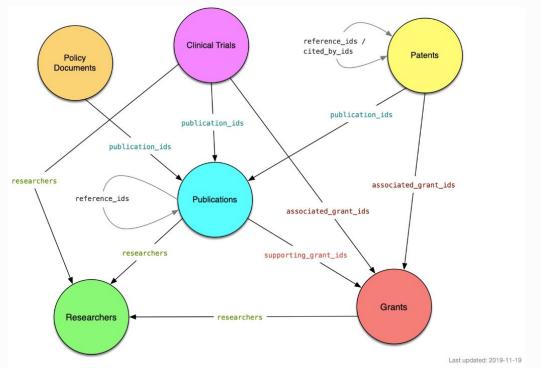
programmatically

Reasonable Use

**Example Queries and Results** 

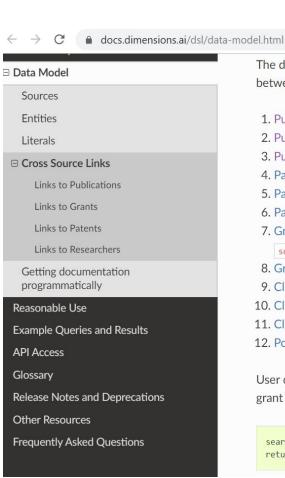
**API Access** 

In particular, the Cross Source Links page provides details about how ID fields can be used to retrieve related source entities.









The diagram above shows the ID fields that can be used to retrieve related source entities. ID fields provide relations between:

- 1. Publications ↔ Publications via references ids
- 2. Publications ↔ Grants via supporting\_grant\_ids
- 3. Publications ↔ Researchers via researchers
- 4. Patents ↔ Patents via reference ids and cited by ids
- 5. Patents ↔ Grants via associated grant ids
- 6. Patents ↔ Publications via publication ids
- 7. Grants  $\leftrightarrow$  Publications via resulting\_publication\_ids . Deprecated: use the other direction of this connection:
- supporting\_grant\_ids in Publications
  8. Grants ↔ Researchers via researchers
- 9. Clinical Trials ↔ Grants via associated grant ids
- 10. Clinical Trials ↔ Publications via publication ids
- 11. Clinical Trials ↔ Researchers via researchers
- 12. Policy Documents ↔ Publications via publication\_ids

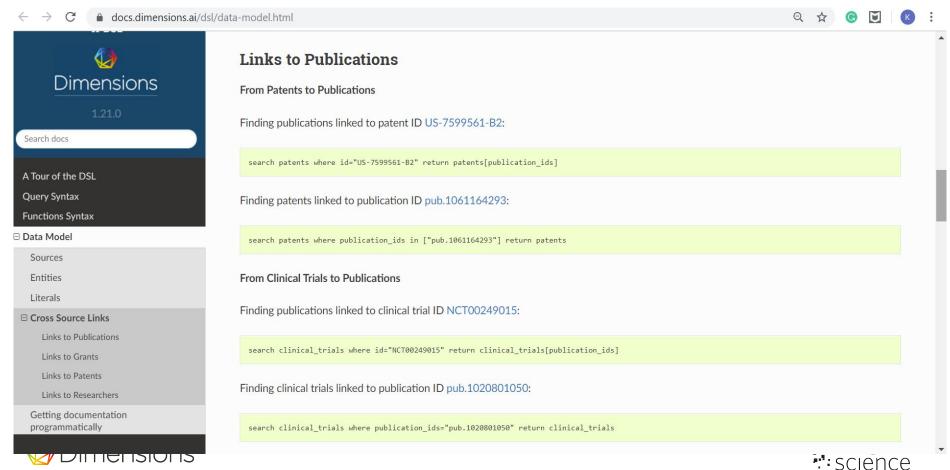
User can retrieve related entities using two steps. First, retrieve the related IDs, such as for example, retrieving supporting grant IDs for publication:

```
search publications where id = "pub.1103155411"
return publications[supporting grant_ids]
```





## Примеры запросов - ПУБЛИКАЦИИ

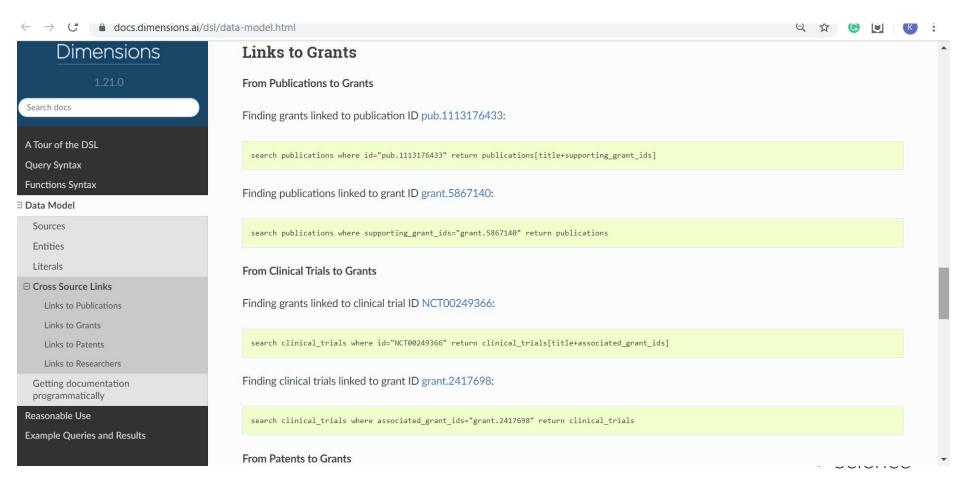




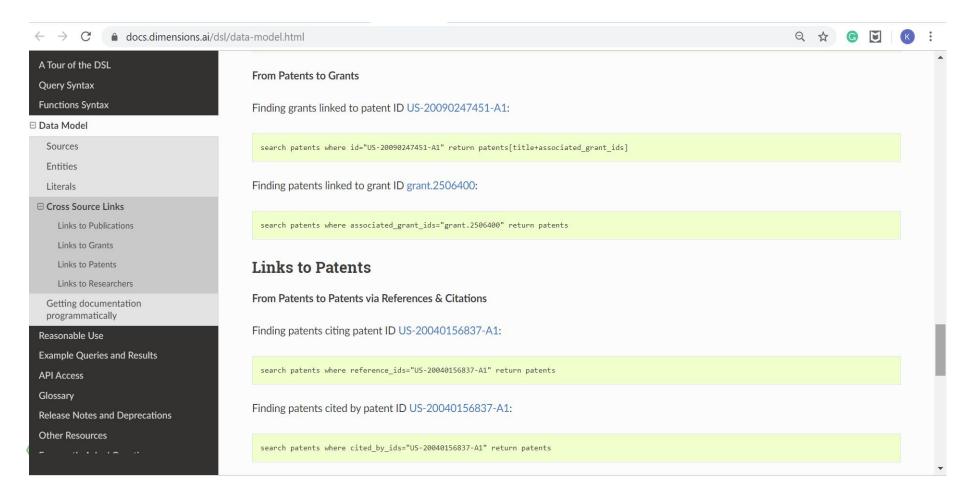




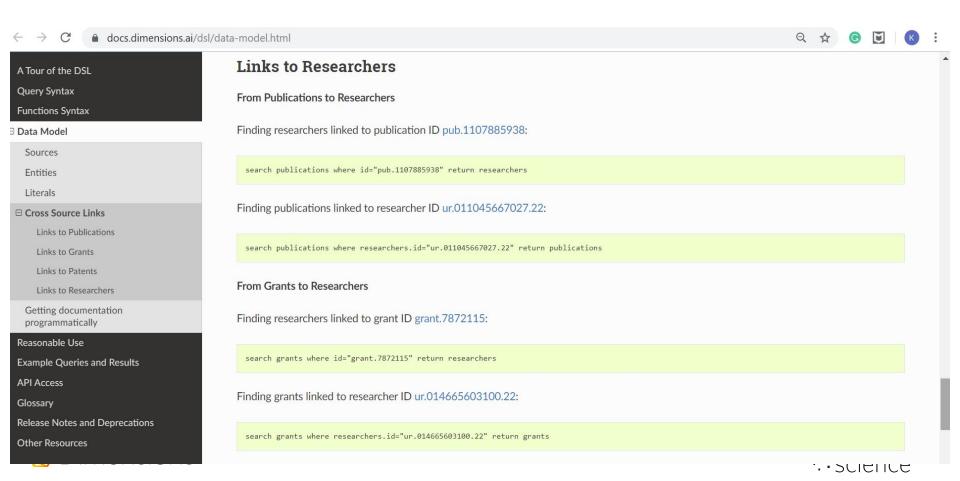
#### ГРАНТЫ



#### ПАТЕНТЫ



### **ИССЛЕДОВАТЕЛИ**



## Продвинутый уровень работы с API Dimensions

B Jupyter Notebook содержится пополняемая база готовых практических запросов к аналитике, которые можно реализовать при помощи Python 3.

Далее полученные данные можно выгрузить в любом удобном формате (txt., cvs., excl.) и визуализировать при помощи любых удобных открытых и привычных инструментов (VOSviewer, Plotly, Excel и т.д.)





## https://digital-science.github.io/dimensions-api-lab/



digital-science.github.io/dimensions-api-lab/











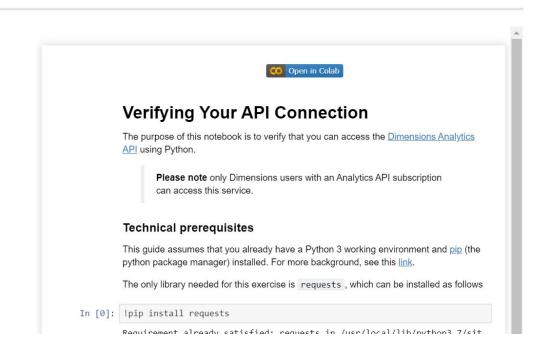
## Dimensions / API Lab: Reusable Code Solutions

This site contains a collection of open source Jupyter notebooks showing how to carry out common scholarly data analytics tasks using the Dimensions Analytics API.

For more information about the Dimensions API, see the API homepage and the official documentation.

#### Getting Started

- Verifying your connection open in New Tab | Google Colab | Nbviewer | Github
- Using the Dimcli library to guery the API open in New Tab | Google Colab | Nbviewer | Github
- Understanding query results open in New Tab | Google Colab | Nbviewer | Github
- Learning about Dimcli magic commands open in New Tab | Google Colab | Nbviewer | Github
- Using Dimcli to return pandas dataframes open in New Tab | Google Colab | Nbviewer | Github
- Researchers Search tips open in New Tab | Google Colab | Nbviewer | Github
- Sample Applications: Calculating Indicators
- Calculating the H Index of a researcher open in New Tab | Google Colab | Nbviewer | Github



#### Q





#### Getting Started

- Verifying your connection
   open in New Tab | Google Colab | Nbviewer | Github
- Using the Dimcli library to query the API open in New Tab | Google Colab | Noviewer | Github
- Understanding query results
   open in New Tab | Google Colab | Nbviewer | Github
- Learning about Dimcli magic commands open in New Tab | Google Colab | Noviewer | Github
- Using Dimcli to return pandas dataframes open in New Tab | Google Colab | Nbviewer | Github
- Researchers Search tips
   open in New Tab | Google Colab | Nbviewer | Github
- Sample Applications: Calculating Indicators
- Calculating the H Index of a researcher open in New Tab | Google Colab | Noviewer | Github
- Sample Applications: Publications For European Cities
- Publications distribution for European Cities open in New Tab | Google Colab | Noviewer | Github
- Sample Applications: Which Are The Journals Citing My Organization
- Which Are the Journals Citing My Organization open in New Tab | Google Colab | Nbviewer | Github
- Sample Applications: Patents Linked To A University

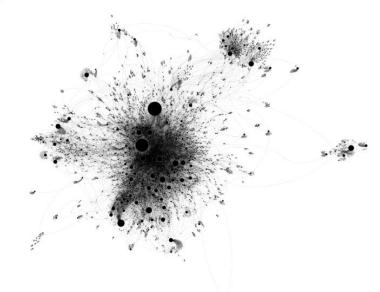


## How to use the Dimensions DSL to build a citation graph

This notebook will demonstrate how to build a citation graph like the one below

In [1]: from IPython.display import Image
#Process the graphml file in Gephi and you will get something like this
Image(filename='Chaomei20063degree.png', height=500, width=500)

Out[1]:



# Практические кейсы применения API

## **Dimensions**

Используя Dimensions API, John хотел ответить на следующие вопросы о Норвежском университете науки и технологий и связи с нанонаукой:

- Кто работает по направлению нанотехнологий?
- В каких конкретных областях они работаю?
- В каких областях они не представлены? Кто в текущий момент работает с ними в коллаборации?
- С кем они могут вступить в коллаборацию?
- Откуда NTNU получает финансирование на нанотехнологии?
- Есть ли другие варианты финансирования?
- Что NTNU опубликовал по нанотехнологиям в последние 1/ пять лет?
- Какие связанные с нанотехнологиями патенты он получил?





John de Mello, Head of Nano at Norwegian University of Science & Technology

"Dimensions provides a very easy to use and powerful package for interdisciplinary research topic analysis"

# An easy to use and powerful API for topic analysis

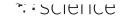
John de Mello, Head of Nano at Norwegian University of Science & Technology (NTNU), describes how he has used the Dimensions API to help his university understand what it does and what it could do - in nanoscience and technology.

When John joined NTNU in September 2018, he was tasked with getting a handle on the breadth of nanoscience and nanotechnology-related research being conducted at the university. John says:

"At that stage, there were no detailed records within the university's three campuses on the topic."

John was asked to not only map the nano activity but figure out the university's respective research strengths and weaknesses in the area. John decided to take a bibliometric approach and was soon drawn to the Dimensions API because of the flexibility it offered to build and run highly customized queries.

Using the Dimensions API, John wanted to answer the following questions about NTNU and nanoscience:



"The Dimensions API comes with great documentation and technical support"

https://www.dimensions.ai/resources/an-easy-to-use-and-powerful-api-for-topic-analysis/

Fig 1: Dimensions API search query



In this example, John was looking for all 2018 publications affiliated to NTNU that contained the keyword "nano" in the title, abstract or full text. He wanted to know:

- Publication type
- Citation numbers and Altmetric score
- Authors
- Funders
- Open Access status

He also wanted to obtain the publication DOIs so that he had a consistent identifier to find and acquire the resulting papers.

```
search publications

for "\"nano\""

where year=2018 and research_orgs.id="grid.5947.f"

return publications
[year+type+times_cited+title+altmetric+author_affiliations+
journal+researchers+funders+doi+open_access]
```

John found that Dimensions did a very good job of collating all the nano-related publications authored by NTNU researchers.

Dimensions even found papers NTNU was previously unaware of.





'As open as possible, as closed as necessary'







researchers

publishers

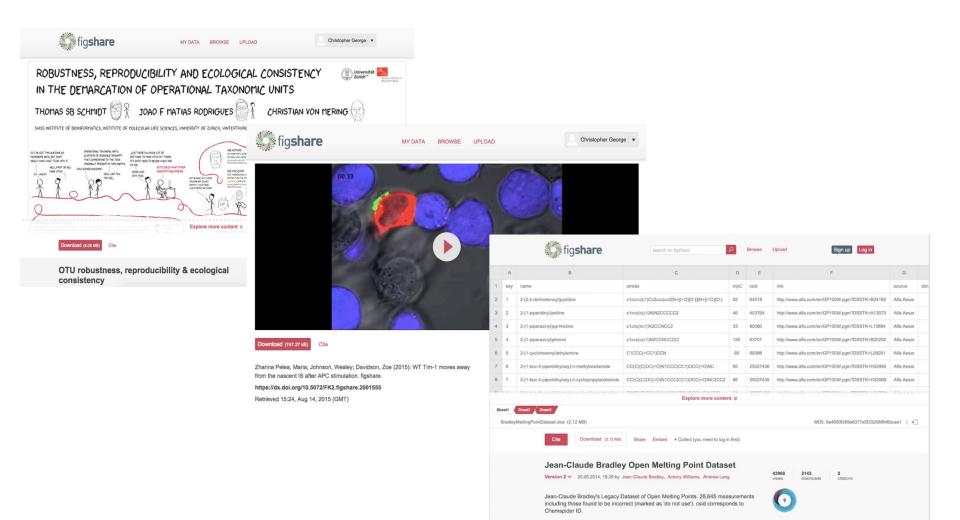
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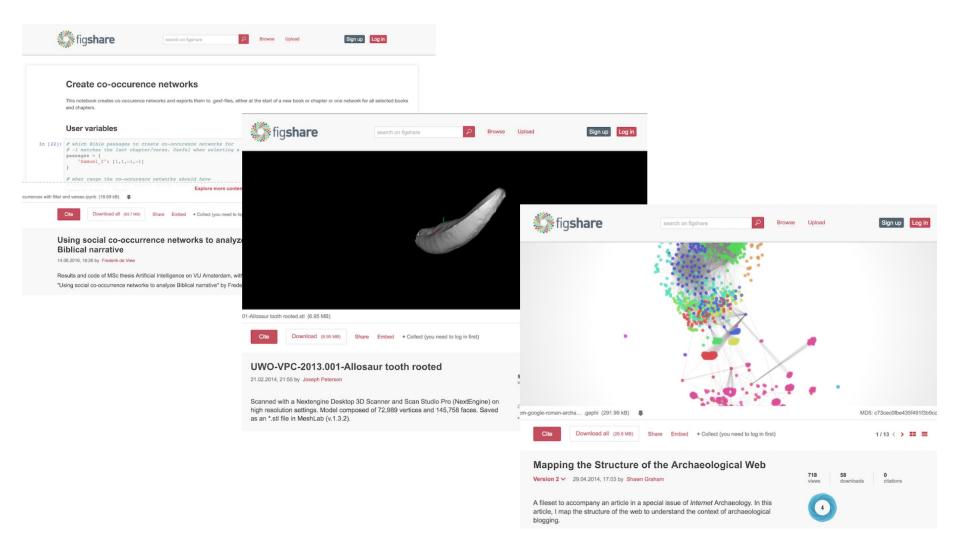


https://doi.org/10.6084/m9.figshare.7195058. v1

## Key results:

- 64% of respondents revealed they made their data openly available in 2018, a 7% rise on 2016.
- Data citations are motivating more respondents to make data openly available, increasing 7% from 2017 to 46%.
- The percentage of respondents in support of national mandates for open data is higher at 63% than in 2017 (55%).
- Respondents who revealed that they had reused open data in their research continues to shrink. In 2018, 48% said they had done this, whereas in 2017, 50% had done so, with 57% in 2016.
- Most researchers felt that that they did not get sufficient credit for sharing data (58%), compared to 9% who felt they do.
- Respondents having lost research data has decreased from 2017 (36% versus 30% in 2018).





## featured apps

a collection of apps developed to help with various types of interactions and simplify workflows to make Figshare even easier to work with

Categories

Top apps

Integrations

GitHub: Client for Figshare API

Applications

in Applications

Lab notebooks

This is a simple client for the Figshare API in python. Currently the following actions are implemented: create\_article, update\_article, get\_article\_details, list\_files, and get\_file\_details.

## GitHub: Figshare Python Recommender

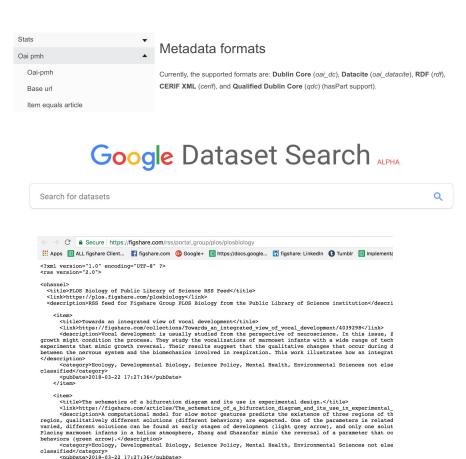
in Applications

A Python script that ingests Figshare's API data and transforms it into data suitable for loading into a recommendation engine. In our case, we save the recommendation data in Kafka but you can easily change this in ingest.py.

Pulls fields relevant for a recommendation engine from all research papers using the API, written in Python. Writes the events to a Kafka stream for further use by ML libs like FREQL.

## Support for open standards and de facto standards

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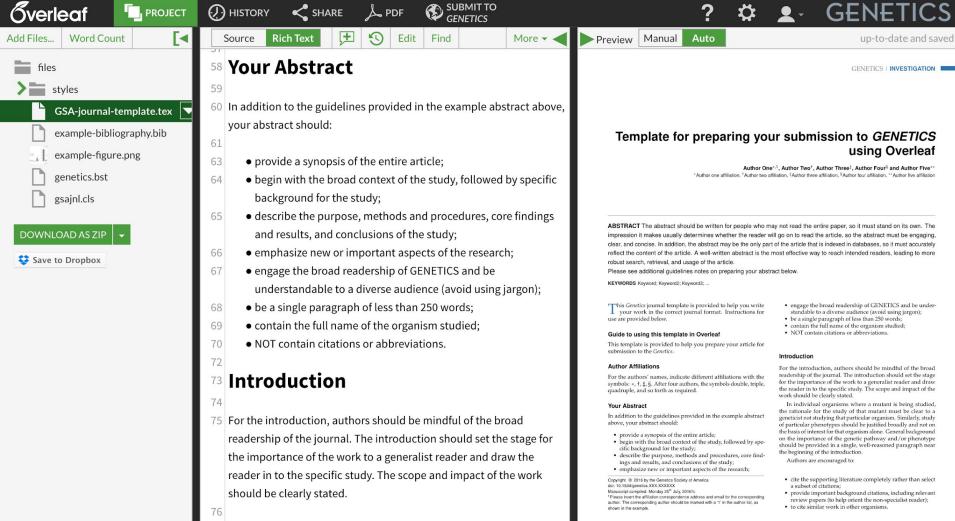
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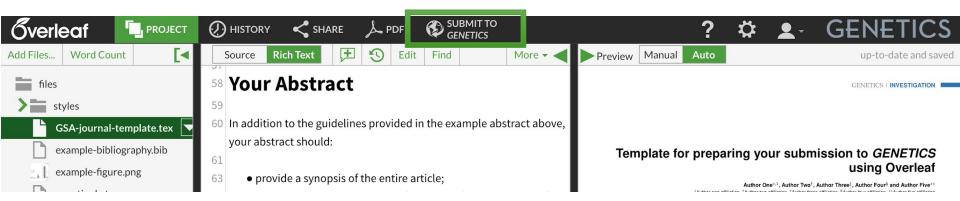




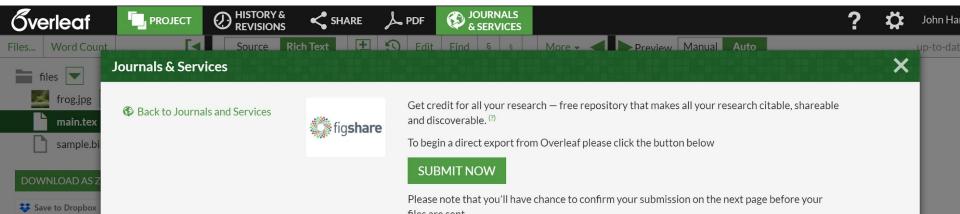
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