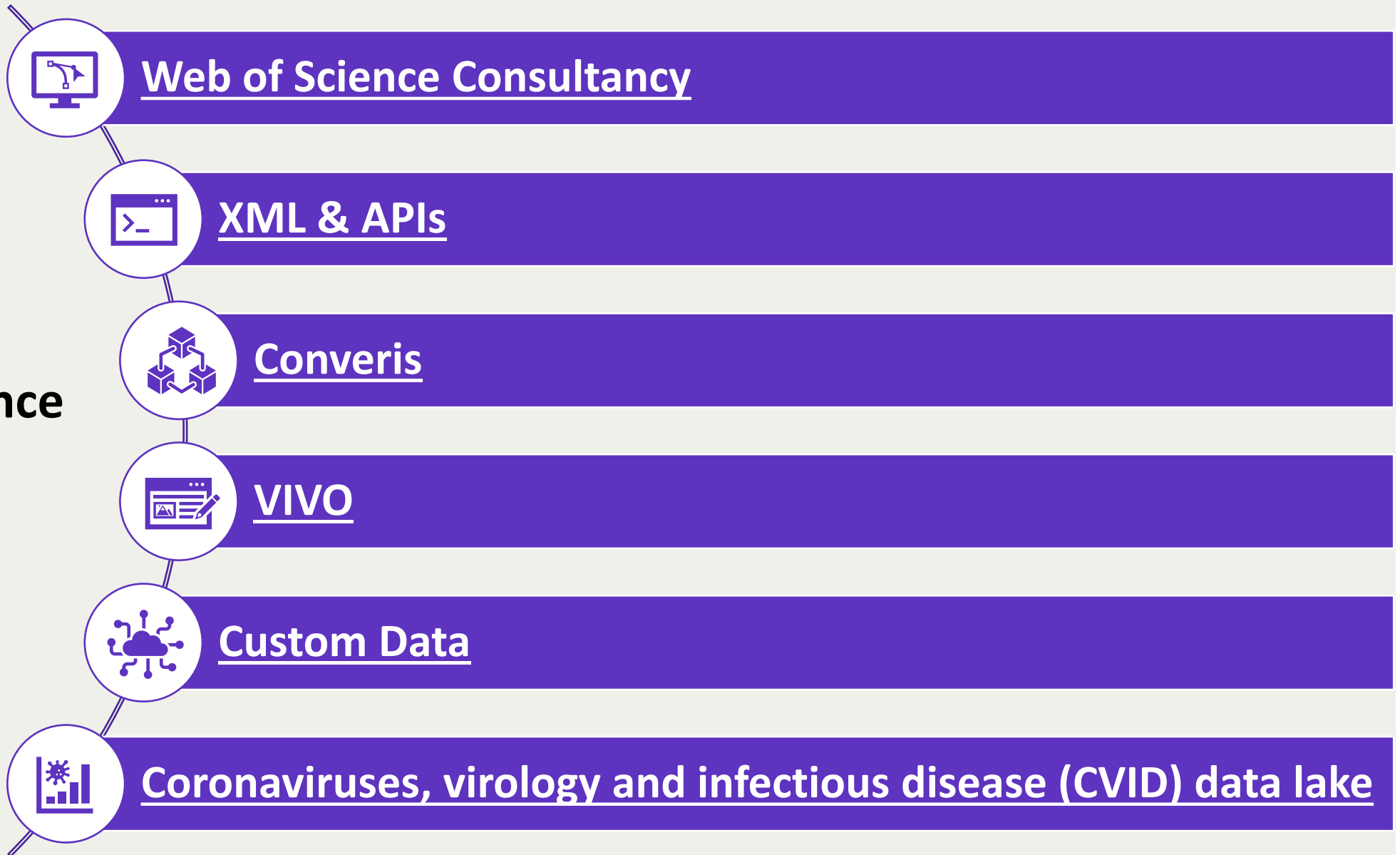# Integrarea datelor Web of Science

Adriana FILIP - Solutions Consultant

adriana.filip@clarivate.com

Martie 2021

Web of Science
Services

Web of Science Consultancy

XML & APIs

Converis

VIVO

Custom Data

Coronaviruses, virology and infectious disease (CVID) data lake

Why Web of Science data?

You can rely on data that is uniquely selective, based on an **independent editorial process**, combined with over **50 years of essential, accurate and unique curation** – resulting in our unparalleled data structure.

Every article from every journal has been indexed, creating a comprehensive and complete data network – helping you to inform your strategy and planning.

Selectivity
Publisher independence – ensures an unbiased view of quality and impact of our collection and data.
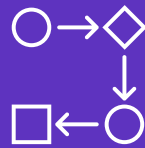
Structure
50 years of curated essential, accurate, consistent data indexing.

Certainty
Every article from every journal has been indexed, creating a trusted network. Never miss a vital piece of information and follow the history of research through unrivaled citation connections.

Clarivate™

What sets Web of Science data apart?

The world's original citation index

Web of Science Core Collection™ provides cover-to-cover indexing back to 1900 across the world's highest quality and most impactful publications.

Publisher-neutral curated quality

Our publication data are based on publications that have passed a robust evaluation and curation process by a team of experts, with in-house editors selecting content for quality and impact.

Historical depth

Over 115 years of comprehensive data so you can see the full scope of a discipline, capture the entire career of a researcher, and see the full impact of an institution.

Data completeness

We capture, index and link every piece of metadata for all items in the Web of Science Core Collection, across the sciences, social sciences, arts and humanities from journals, books, and conference proceedings.

XML & APIs

XML & APIs >

Web of Science APIs seamlessly integrate the world's best publication and citation data, giving you **flexibility and control of the highest-quality and normalized bibliometric indicators**.

Power and enrich your institution's analysis and assessment capabilities.

Who uses our APIs?

- **Early career researchers**: to power bibliometric or informatics research
- **Libraries**: to support Open Access compliance and collections reviews
- **Administrators**: to integrate with existing systems and get a trusted view of the research impact of their faculty and institution
- **National funding bodies**: to assess research outputs and performance against national and international benchmarks.

Clarivate™

XML & APIs

Web of Science API Lite	Web of Science API Expanded	Article Match Retrieval	InCites
This API supports rich searching across the Web of Science Core Collection and retrieving core article-level metadata. Reuse this data in your public-facing applications, including institutional repositories and research networking systems.	Everything in the Lite API plus additional metadata, such as author, affiliations, identifiers and funding data.	The Links Article Match Retrieval Service (AMR) allows for a real-time check of bibliographic metadata such as DOI, author, source title, etc., against the Web of Science Core Collection. This enables building article-level links to the Web of Science from external systems, and retrieving times-cited counts from the Web of Science.	The InCites API provides article-level metrics to support integration in Research Management Systems or Current Research Information Systems (CRIS). *InCites is a citation-based evaluation tool for academic and government administrators to analyze institutional productivity and benchmark output against peers and aspirational peers in a national or international context.*

Web of Science and InCites API data fields and use policy

WoS API Lite

- **UT (Unique Identifier)**
- **Authors**
- **Author Keywords**
- **Document Type**
- **Title**
- **Issue**
- **Pages**
- **Publication Date**
- **Source Title**
- **Volume**
- **DOI**
- **ISBN**
- **ISSN**

WoS API Expanded

- **WoS API Lite fields**
- Abstract
- **Article Number**
- Author variant names (full and WoS abbrev)
- Author Address/Affiliation
- Author to Address linkage
- Organization Enhanced Reprint/Corresponding Author and Address
- **Author Order Number**
- **ORCID ID/ResearcherID**
- **Subject Category**
- **PMID**
- **Book Author/Group Author**
- **Book Series**
- **Conference Title**
- **Editor**
- Funding Text
- Grant IDs
- Grant Agencies
- **Group Author**
- Keywords Plus
- **Language**
- Publisher
- Related Records
- Citing Articles
- Cited References
- DOAJ Title flag

Links AMR

- **Times Cited***
- PMID
- **UT (Unique Identifier)**
- DOI
- **Source URL**
- **Citing Articles URL**
- **Related Records URL**

* Times Cited can be shown but cannot be harvested, aggregated or manipulated.

InCites API

- **UT (Unique Identifier)**
- **Document Type**
- **Times Cited***
- Journal Expected Citations
- Journal Normalized Citation Impact
- Journal Impact Factor
- Category Expected Citation Rate
- Percentile
- Category Normalized Citation Impact
- **ESI Highly Cited Paper (Yes/No)**
- **ESI Hot Paper (Yes/No)**
- **International Collaboration (Yes/No)**
- **Institutional Collaboration (Yes/No)**
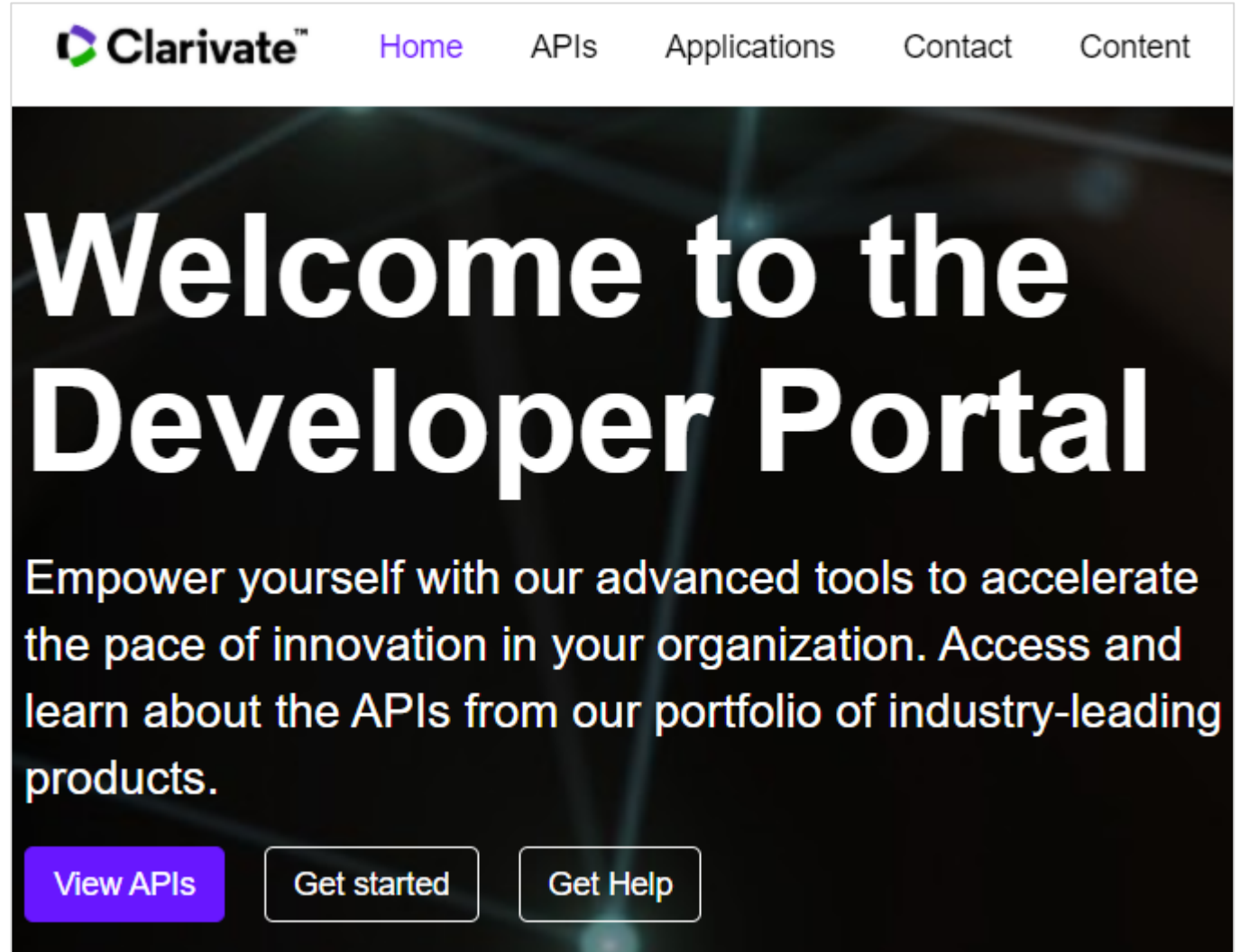- **Industry Collaboration (Yes/No)**
- **Open Access Flag (Yes/No)**

XML & APIs

The Clarivate **Developer Portal** is the central repository for information about our web services across our portfolio of products.

https://developer.clarivate.com/

Find information and links to documentation about Web of Science APIs, including updated documentation for InCites™ and information about SOAP and REST-based Web of Science APIs.
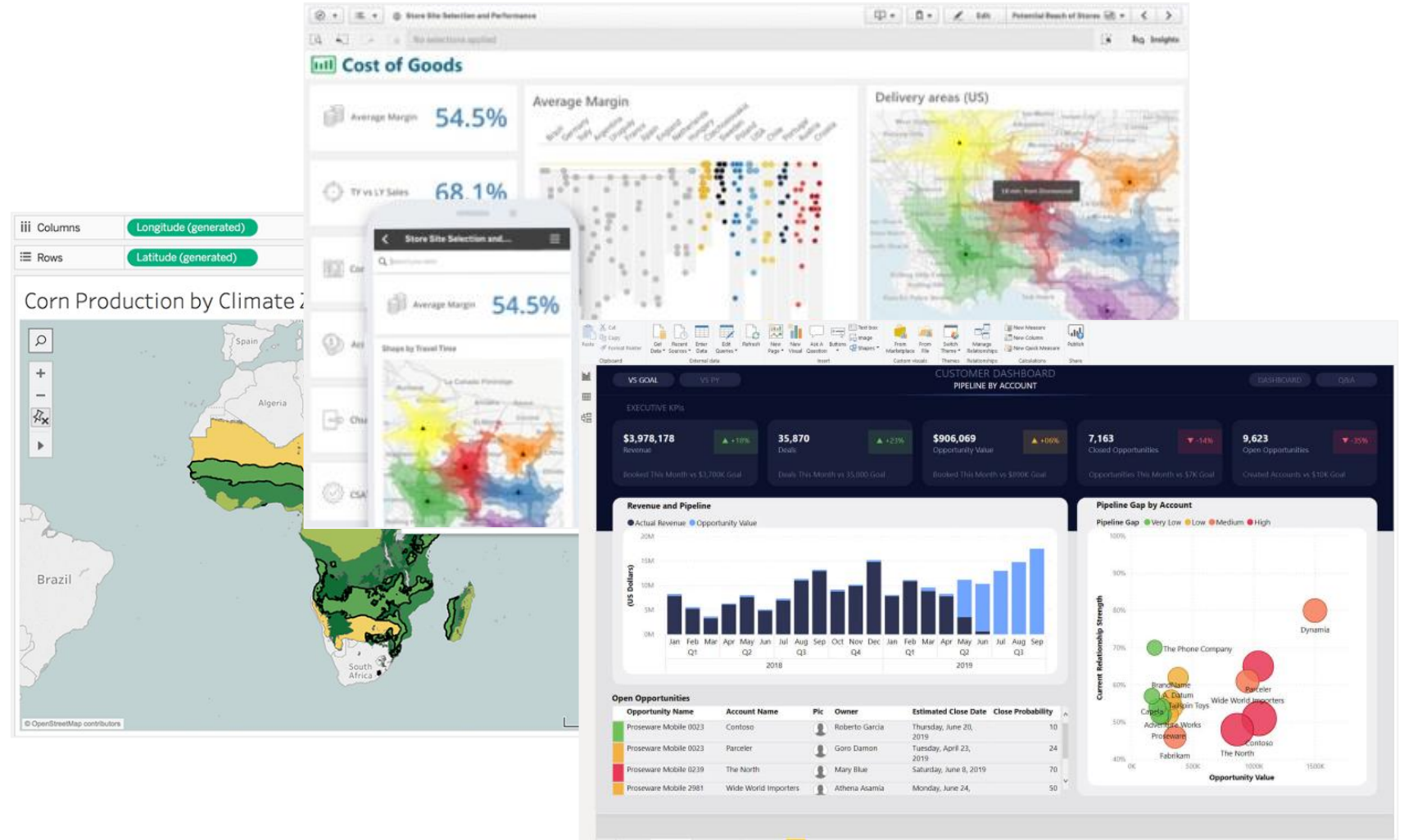

Clarivate™

XML & APIs

APIs – Business Intelligence Apps

These tools are often used to present data in an easy to digest format. There are lots on the market and the majority will accept a feed from our APIs (JSON being a very common format).

XML & APIs

Converis

Converis >

Converis™ is a powerful interface that links the various institutional systems that capture research-related information, creates standardization for compiling profiles and CVs, and reduces the need for repeated entry of information.

Converis serves as a central integration hub for joining repositories, personal libraries, institutional databases, and an institution's systems.

Use Converis to:

- Direct and manage workflows and approvals associated with research activities and achievements
- Advise budgeting, expenditures and forecasting
- Assign and delegate tasks and deadlines
- Gather project information linking outcomes with funding
- Validate processes for open access repository and bibliometrics
- Aggregate data on critical institutional research processes and activities for internal and external reporting
- Conduct intellectual property licensing for patents, expertise and products to manage workflows
- Promote and publicize the research and activities of your institution via and public and searchable web portal.

Clarivate™

Converis

What information is managed in Converis?

PEOPLE | Details on people and their organizational affiliations

PUBLICATIONS | Metadata, abstracts and full texts of publications

PROJECT APPLICATIONS | Converis organizes the information your institution requires for project applications, considering specific funder requirements, workflows and approval processes.

PROJECTS | Information on ongoing and completed projects, including associated documents, financial overviews, and activity plans.

PATENTS | Converis helps you handle key information on patents and licensing.

ACTIVITIES | Templates help you to capture a broad array of research activities for CVs, profiles and other reports, including scientific and professional activities, honors and awards, committee activities, and memberships.

STUDY PLANS | Support for the in-program management of graduate students, keeping track of supervisory meetings, milestones and planned and achieved results.

Converis

Save time spent on manual, administrative work and enhance the accuracy and consistency of your data.

✓ **Integration with Journal Citation Reports**
Use the Journal Citation Reports™ metrics files to include Journal Level Metrics, including the Journal Impact Factor™ and its quartiles, to assess the journals that your authors have published in.

✓ **Integration with My Organization**
My Organization is a new integrated module within InCites™ Benchmarking & Analytics. Customers using Converis 6 can now export data directly into InCites to assess their departments and researchers using My Organization.

✓ **Embedded reports**
See reports directly on any browser page or your research portal with this new feature to safely display Pentaho reports.

✓ **Automatic publication matcher**
Automatically extract new publications from Web of Science and match them to your researchers.

✓ **Template migration utility**
Easily migrate your templates between two servers, facilitating the copy of configurations from Test to Live, for example.

✓ **Reports for efficiency of Converis workflows**
Have you ever wondered where your validations take the longest? Assess your processes and detect bottlenecks with our report that shows you the time each step takes to be fulfilled.

✓ **InCites API integration**
Native integration with the InCites API allows you to extract article-level contextualized bibliometrics from the Web of Science Core Collection™. These metrics will be reflected in your reports and can help you assess the impact of publications authored by your researchers.

✓ **Configurable registration page**
Your 'new user' registration page is configurable with an advanced drag-and-drop intuitive feature.

Clarivate™

VIVO

Clarivate™

VIVO >

VIVO services

CERTIFIED VIVO PARTNER

✓ **Installation**
Software installation on client or cloud servers, identifying data sources, planning data ingestion and selecting supporting tools.

✓ **Training**
Training on software operation and development.

✓ **Consultation**
Consultation and implementation assistance in populating VIVO with rich bibliographic data in an efficient and maintainable way.

✓ **Customization**
Customizable platform and data model to meet local needs.

VIVO is open-source software used by universities and research organizations around the world as a research portal to their scholarly activities. It provides an integrated view of the scholarly work of an organization to encourage internal and external collaboration among researchers.

VIVO

Using Web of Science data with VIVO

Institutions using the Web of Science database can automatically populate VIVO profiles with metadata for research outputs using our APIs.

Our APIs also enable you to include a times-cited count in VIVO as a measure of research impact for your publications. The Data Citation Index provides records of millions of datasets from trusted data repositories. Our API can also be used to integrate these datasets into researcher profiles in VIVO. Check out our demo site to see the data in action.

InCites Benchmarking and Analytics

InCites B&A subscribers have access to APIs that enable further integration of rich Web of Science Core Collection metadata into VIVO profiles, as well as citation indicators like "Highly Cited Paper" or "Industry Collaboration".

Converis

Users of our CRIS system, Converis, can integrate their robust, curated researcher profiles directly into VIVO via API.

VIVO

VIVO DEMO SITE >

Visit Clarivate's mobile-friendly demo VIVO site

CO-AUTHOR VISUALIZATION >

VIVO visualizations highlight collaborations among researchers
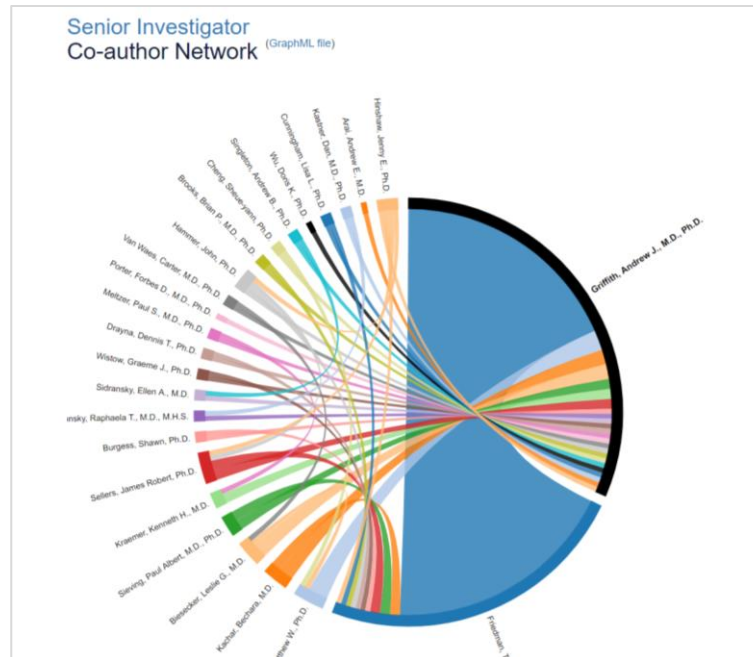
CAPABILITY MAP >

VIVO's robust data model enables networks of information to be presented and shared through the power of linked data

Web of Science Consultancy

Clarivate™

Web of Science Consultancy >

Investment in research takes many forms:

- Evaluate your organization's research output
- Track the return on your funding investment
- Inform a pathway to tenure and promotion
- Decide what research to fund
- Attract top research talent
- Analyze the reach and impact of research
- Make sense of the information you have
- Compare your research in the context of peers, subjects, journals, organizations and funders
- Understand the global research landscape or just an obscure research area.

Consult with data scientists, PhDs, bibliomatricians and technology and industry experts to determine your organization's research impact.

Web of Science Consultancy

✓ **Facilitate horizon-scanning**
✓ **Understand research trajectory**
✓ **Identify key opinion leaders**
✓ **Predict future impact**
✓ **Decipher complex information**

Partner with us
- Subscribe to data resources and mine the data in-house
- Partner with us and have our PhDs do the data mining for you
- Work with our team of experts to design a system for your needs
- Let us do the data standardization and data manipulation for you.

Clarivate™

Custom Data

Clarivate™

Insert footer

23

Custom Data >

Our expert custom data team can help you conduct in-depth data assessments and extractions to answer your specific questions – using the leading publication and citation data from Web of Science Core Collection™.

Our custom data sets can be:

- Enhanced with normalized impact and assessment metrics for journal and author performance

- Downloaded into in-house information management systems

- Commingled with existing government data and other third-party data

Clarivate™

Custom Data

Unrivalled data science expertise, evidence based consulting and independent advice

- Assess research output and performance against national and international benchmarks

- Obtain the insights needed to inform and build the right programs to support your mission and objectives

- Identify trends and patterns in fields of study as well as emerging subject areas to guide research focus and funding

- Identify experts in subject areas/topics and promote internal and external partnerships or collaborations

- Evaluate funding and grants, and demonstrate success by highlighting scholarly accomplishments and efforts

- Ensure compliance with government and institutional mandates for evidence-based research performance evaluation

Clarivate™

Coronaviruses, virology and infectious disease (CVID) data lake

Clarivate™

Coronaviruses, virology and infectious disease (CVID) data lake >

The first of several therapeutically oriented data lakes from Clarivate, our coronavirus, virology and infectious disease (CVID) data lake brings together **comprehensive data assets backed by actionable analytics and expert consultants with deep domain knowledge**.

Accelerate research, preparedness and response efforts to address the needs of today — and tomorrow.
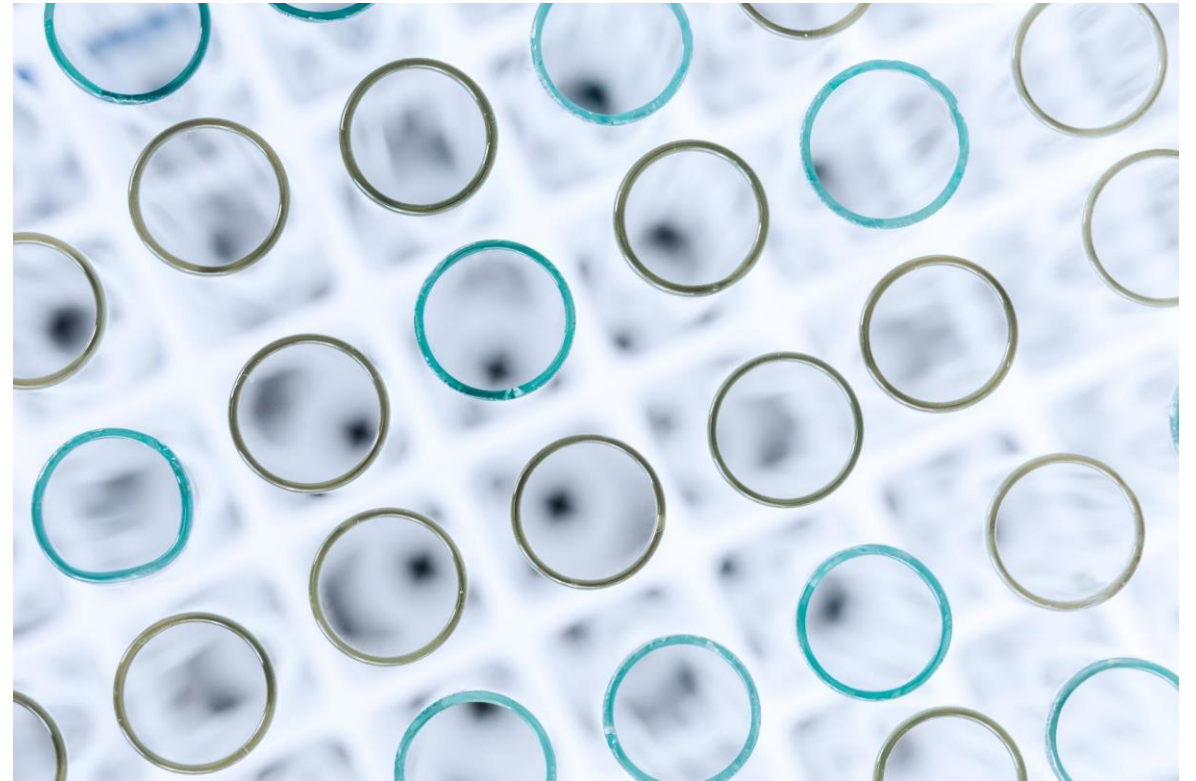
Coronaviruses, virology and infectious disease (CVID) data lake

MASTER DATASET

Easily utilize direct programmatic access to data hosted and maintained by Clarivate.

SELF-SERVE ANALYTICS

Empower your teams with pre-configured dashboards and intuitive exploration tools that enable easy queries and interrogation.

CUSTOM ANALYTICS

Get answers to your specific questions through custom analytics delivered by our experienced team of industry professionals and data scientists.

CONSULTING

Leverage proven methodologies and advanced data science capabilities with our expert consulting services spanning key areas of decision making.
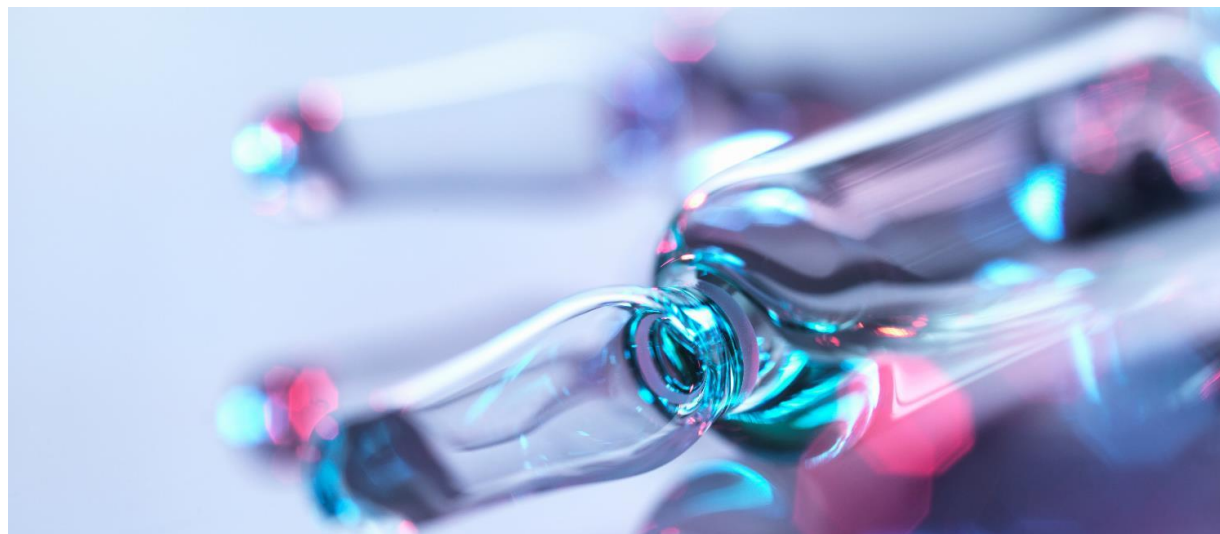
Access comprehensive data assets based on your resource needs and expertise

Clarivate™

Coronaviruses, virology and infectious disease (CVID) data lake

The **Clarivate Research Intelligence Cloud** is an integrated, scalable technology platform that powers our intelligence solutions, applications and data sets.

As well as hosting **DRG, Cortellis and Web of Science**, the Research Intelligence Cloud enables data models that let us ingest, integrate, synthesize and share high volumes of information – making data accessible via configurable cloud applications, direct feeds, data lakes or bespoke programs for customer and partner applications.

By harmonizing billions of data points from thousands of sources into a single platform, the Research Intelligence Cloud provides the flexibility and functionality required to support a diverse slate of complex research and analytics needs.

Appendix

XML & APIs

Web of Science API Lite	Web of Science API Expanded	Article Match Retrieval	InCites
This API supports rich searching across the Web of Science Core Collection and retrieving core article-level metadata. Reuse this data in your public-facing applications, including institutional repositories and research networking systems.	Everything in the Lite API plus additional metadata, such as author, affiliations, identifiers and funding data.	The Links Article Match Retrieval Service (AMR) allows for a real-time check of bibliographic metadata such as DOI, author, source title, etc., against the Web of Science Core Collection. This enables building article-level links to the Web of Science from external systems, and retrieving times-cited counts from the Web of Science.	The InCites API provides article-level metrics to support integration in Research Management Systems or Current Research Information Systems (CRIS). *InCites is a citation-based evaluation tool for academic and government administrators to analyze institutional productivity and benchmark output against peers and aspirational peers in a national or international context.*

Article Match Retrieval (AMR)

Bold = OK for public display

- **UT (Unique Identifier)**
- **Title**
- **Volume**
- **Issue**
- **Pages**
- **DOI**
- **ISSN / ISBN**
- **Times Cited***
- **PMID**
- **Source URL**
- **Citing Articles URL**
- **Related Records URL**

Protocol	Response	Authentication	Content	Limits
HTTP	XML	Username/pass word	Web of Science licence	Throttle: 50 records per call
Query	- Document identifiers (WOS ID, DOI, PMID), lite service - Bibliographic information (authors, title, journal etc). Full service - Journal name, ISSN (see JCR below)			
Datasets	DCI (Data Citation Index), Web of Science core collection.			
Applications	Library: publication repository updates, record matching from manual or third party entries			
JCR	Journal Citation Reports (JCR) subscribers can also return the URL of requested journal(s)			
Access	http://help.incites.clarivate.com/LAMRService/WebServicesOverviewGroup/overview.html			

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WoS Lite

Bold = OK for public display

- **UT (Unique Identifier)**
- **Authors**
- **Author keywords**
- **Document type**
- **Title**
- **Source title**
- **Volume**
- **Issue**
- **Pages**
- **Publication date**
- **DOI**
- **ISBN**
- **ISSN**

Protocol	Response	Authentication	Content	Limits
REST	XML, JSON	token/key	Web of Science licence	• Licenced content • Records retrieved per year
Query	Web of science advanced search query (i.e. "*cu=australia and ts=paediatrics*")			
Datasets	Any of the following: BIOSIS family (BCI, BIOABS, BIOSIS),Current content, DCI, Derwent, Medline, Zoological records (ZR), Web of Science (all databases), Web of Science core collection.			
Applications	Library: publication repository updates			
Access	https://developer.clarivate.com/			

WoS Expanded

Bold = OK for public Display

- Abstract
- **Article number**
- Author variants
- Author affiliation
- **Author linkage**
- Org enhanced
- Reprint details
- **Author order**
- **ORCID ID**
- Researcher ID
- **Subject category**
- **PMID**
- Book author
- Chapter count
- **Book group author**
- **Book series**
- **Conference title**
- **Editor**
- Funding text
- Grant IDs
- Grant agencies
- **Group author**
- Keywords Plus
- **Language**
- Publisher
- Related records
- Citing articles
- Cited references
- Open Access flag

Protocol	Response	Authentication	Content	Limits
REST	XML, JSON	token/key	• Web of Science licence • API licence	• Licenced content • Records retrieved per year
Query	Web of science advanced search query (i.e. "*cu=australia and ts=paediatrics*")			
Datasets	Any of the following: BIOSIS family (BCI, BIOABS, BIOSIS),Current content, DCI, Derwent, Medline, Zoological records (ZR), Web of Science (all databases), Web of Science core collection.			
Applications	Library: publication repository updates, advanced search for institute papers Research management: benchmark, collaborations, citations, integration with CRIS, VIVO Research: publication and citation analysis, network data, AI, machine learning			
Access	https://developer.clarivate.com/			

InCites

Bold = OK for public display

- UT (Unique Identifier)*
- **Document type**
- **Times cited**
- Research area(s)
- Journal expected citations
- Journal normalized citation impact
- Journal Impact Factor (JIF)
- Category expected citation rate
- Percentile
- Category normalized citation impact
- **ESI highly cited paper (Yes/No)**
- **ESI Hot Paper (Yes/No)**
- **International collaboration (Yes/No)**
- **Institutional collaboration (Yes/No)**
- **Industry collaboration (Yes/No)**
- **Open Access flag (Yes/No)**

Protocol	Response	Authentication	Content	Limits
REST	XML, JSON	token/key	InCites licence	• Licenced content • Records retrieved per year
Query	• Your institution's ID • Web of science unique identifiers (UT)			
Datasets	Web of Science core collection (including ESCI).			
Applications	Research management: benchmark based on citation metrics, collaborations (when used with WOS expanded), integration in Research Management Systems or Current Research Information Systems (CRIS), VIVO.			
Access	https://developer.clarivate.com/			

Limits on Usage

- The number of records and queries allowed per year and requests per second, depend on the selected API model.

- The number of tokens allowed is also dependent on the model.

API	API Service Level	Max # of Tokens	Max # of Requests (per second unless specified)	Max # of Queries/year	Max # of Records/year
WoS Lite API	Standard	1*	2*	Unlimited	Unlimited
Links AMR API	Standard	N/A	3K/minute	Unlimited	Unlimited
WoS Expanded API	Basic	1	2	75k	50K
WoS Expanded API	Intermediate	2	2	500k	250K
WoS Expanded API	Advanced	5	3	3M	1M
WoS Expanded API	Premium	10	5	5M	3M
InCites API	Standard	1	1K/day	365,000	N/A

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36
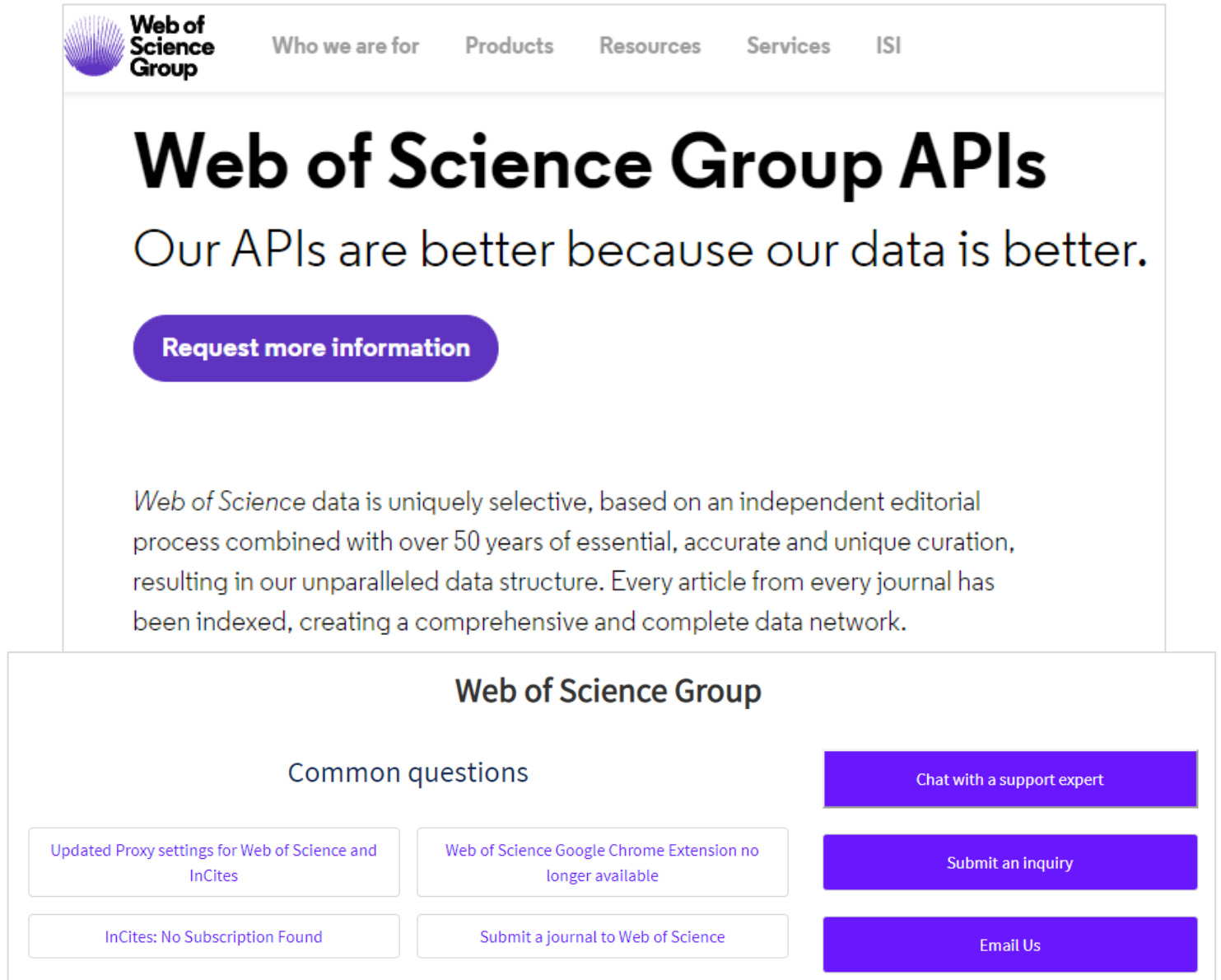
Requesting APIs

To get started with our APIs, visit our APIs web page >.
Click "**Request more information**" and on the support web page, click "**Email Us**".

The email needs to state:
- Which APIs are being requested
- A description of the intended use
- If it is for WoS Expanded or InCites, an indication of the frequency of use and volume of records retrieved should be included.

Once approved, full instructions will be provided for the APIs to be accessed via the **Developer Portal**.

Developer Portal

- Within the API **Developer Portal**, clicking on a specific API from the **Subscriptions** screen, display links to useful resources for that API.

- For example, the **Swagger definition** and **Code Samples**.

Subscriptions

Your application has the following API subscriptions:

API	Auth Type	Trusted	Scopes	Secrets (API Key or Client ID/Secret)
wos	key-auth	-		••••••••••••••••••••••••••
incites	key-auth	-		•••••••
woslite	key-auth	-		•••••••

wos-amr
Utility scripts for using the Web of Science Links Article Match Retrieval Service (AMR) service.
● Python ⚖ MIT ⑂ 3 ★ 12 ⓘ 0 ⑂ 0 Updated on Oct 30, 2019

VIVO2MyOrg
● Python ⚖ MIT ⑂ 0 ★ 0 ⓘ 0 ⑂ 0 Updated on Oct 30, 2019

wos2vivo
Web of Science to VIVO
● Python ⚖ MIT ⑂ 0 ★ 7 ⓘ 1 ⑂ 0 Updated on Oct 30, 2019

Web of Science API Lite

Support 'search' and 'data integration' using Web ... simple searching level metadata.

Web of Science data can be used in a number ... to facilitate discov... agreement will govern the terms of use for ... hrottling, and file

By ...esting credentials, you agree ... ...ere to this portal's Terms of Use.

Related documentation:

- Code samples (GitHub)
- Data Integration
- Clarivate Analytics LibGuide

View Swagger definition »

Search Supports discovery and interrogation of the data.

GET	/	Submits a user query and returns results
GET	/query/{queryId}	Fetch record(s) by query identifier

Integration Supports integration and data supplement activities.

GET	/id/{uniqueId}	Find record(s) by specific id

Postman

Postman is an example of a collaboration platform for API development. Tools like this can be used for basic work with the APIs.
https://www.getpostman.com/

Postman

The example opposite shows how the Expanded API returns the authors and links them to their organisation.

```
"names": {
    "count": 8,
    "name": [
        {
            "seq_no": 2,
            "role": "author",
            "full_name": "Aalbers, J.",
            "addr_no": 2,
            "last_name": "Aalbers",
            "display_name": "Aalbers, J.",
            "wos_standard": "Aalbers, J",
            "daisng_id": 7498410,
            "first_name": "J."
        },
        {
            "seq_no": 8,
            "role": "author",
            "full_name": "Antochi, V. C.",
            "addr_no": 2,
            "last_name": "Antochi",
            "display_name": "Antochi, V. C.",
            "wos_standard": "Antochi, VC",
            "daisng_id": 14415673,
            "first_name": "V. C."
        },
```

Number of authors from organisation

Position of the author

Number of the organisation

```
"address spec": {
    "country": "Sweden",
    "city": "Stockholm",
    "addr_no": 2,
    "organizations": {
        "organization": [
            "Stockholm Univ",
            {
                "pref": "Y",
                "content": "Oskar Klein Centre"
            },
            {
                "pref": "Y",
                "content": "Stockholm University
            }
        ],
    }
```

Organisation details

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40

Vă mulțumesc!

Adriana FILIP

Solutions Consultant

adriana.filip@clarivate.com

www.clarivate.com

Additional resources

Web of Science Learning >
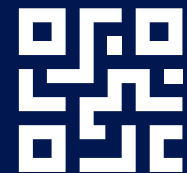
Web of Science Academy >

Events & Webinars >

LibGuides >

Videos >

Web of Science Blog >

Web of Science news hub >

Researcher Recognition >

Customer Service - Available 24x5
support.clarivate.com/ScientificandAcademicResearch

LIVE CHAT   **Click here to reach a WoS agent**

PHONE   **Dial +44 8003288044**

EMAIL or WEBFORM   **WoSG.support@clarivate.com or click here to send us a Webform**

KNOWLEDGE BASE   **Click here to visit our extensive Knowledge Base**

Links to popular articles include: **Remote Access to WoS**, **h-index Information**

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