# SciVal

## Quick Reference Guide

www.scival.com

Elsevier's new generation of SciVal offers quick, easy access to the research performance of 4,600 research institutions and 220 countries worldwide. A ready-to-use solution with unparalleled power and flexibility, SciVal enables you to navigate the world of research and devise an optimal plan to drive and analyze your performance.

## Build your views on the world's research

### Visualize research performance

Access comprehensive research performance summaries of any desired research entities, identify their unique research strengths and multidisciplinary research areas.

- Retrieve at-a-glance, standardized reports instantly

- Access SciVal Spotlight maps for all institutions and countries
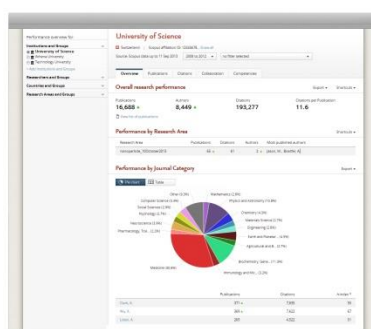
### Benchmark your progress

Compare the performance of any institutions, countries, and pre-defined groups, or create your own research area and monitor progress over time.

- Perform in-depth analyses to meet your specific objectives by selecting any combination of subject areas and metrics from a comprehensive set

- Identify your relative strengths and weaknesses to optimize your strategy
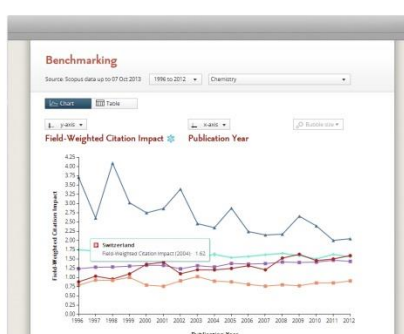
### Develop collaborative partnerships

Identify and analyze existing and potential collaboration opportunities based on publication output and citation impact.

- Explore your institution's current and prospective partnerships on Google maps

- Identify your top collaborative institutions and co-authorship drilling into specific subject areas and self-defined research topics
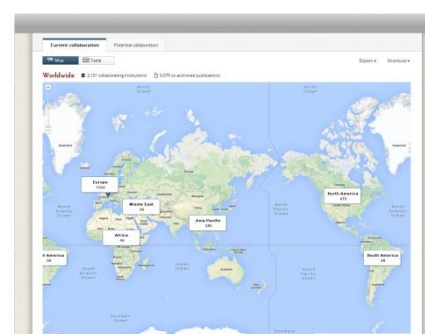


## Data source

Information provided by SciVal is drawn from the Scopus dataset. Scopus is the largest abstract and citation database of peer reviewed literature which includes:

- 21,000 titles from more than 5,000 international publishers
- 20,000 peer-reviewed journals (including 2,600 open access journals)
- 390 trade publications
- 370 book series

## Metrics

SciVal offers a broad spectrum of industry-accepted and easy-to-interpret metrics including Snowball Metrics❄ which is a global standard metrics defined and agreed by higher education institutions for institutional strategic decision making through benchmarking.

Metrics in SciVal help the institutions to measure an institution's or a country's productivity, citation impact, collaboration, subject disciplinarity and more.

About Snowball Metrics: www.snowballmetrics.com

# Visualize research performance

Comprehensive summaries of any desired research entities such as institutions, countries, research groups and topics.

**① Overview tab** provides you with at-a-glance research performance overviews of any selected institutions, countries, research topics and more.

**② Select entity panel** allows you to select any research entities from:
- Institutions and Groups
- Researchers and Groups
- Countries and Groups
- Research Areas and Groups

**Add an institution or a country** by typing in the name, and SciVal will provide you with a list of pre-defined institutions and countries to select from.

**③ Select year range** from:
- 3 years (2011 to 2013)
- 3 years + current year (2011 to 2014)
- 3 years + current year + beyond current year (2011 to >2014)

- 5 years (2009 to 2013)
- 5 years + current year (2009 to 2014)
- 5 years + current year + beyond current year (2009 to >2014)

**④ Filter subject area** using 27 top level and 334 lower level subject areas based on Scopus All Subject Journal Classification (ASJC)

**⑤ Metric themes' tabs** provide comprehensive understanding of the selected research entity based on:
- Overview
- Publications ⑥
- Citations ⑦
- Collaborations ⑧
- Competencies ⑨
  (circle map, matrix map)
- Institutions
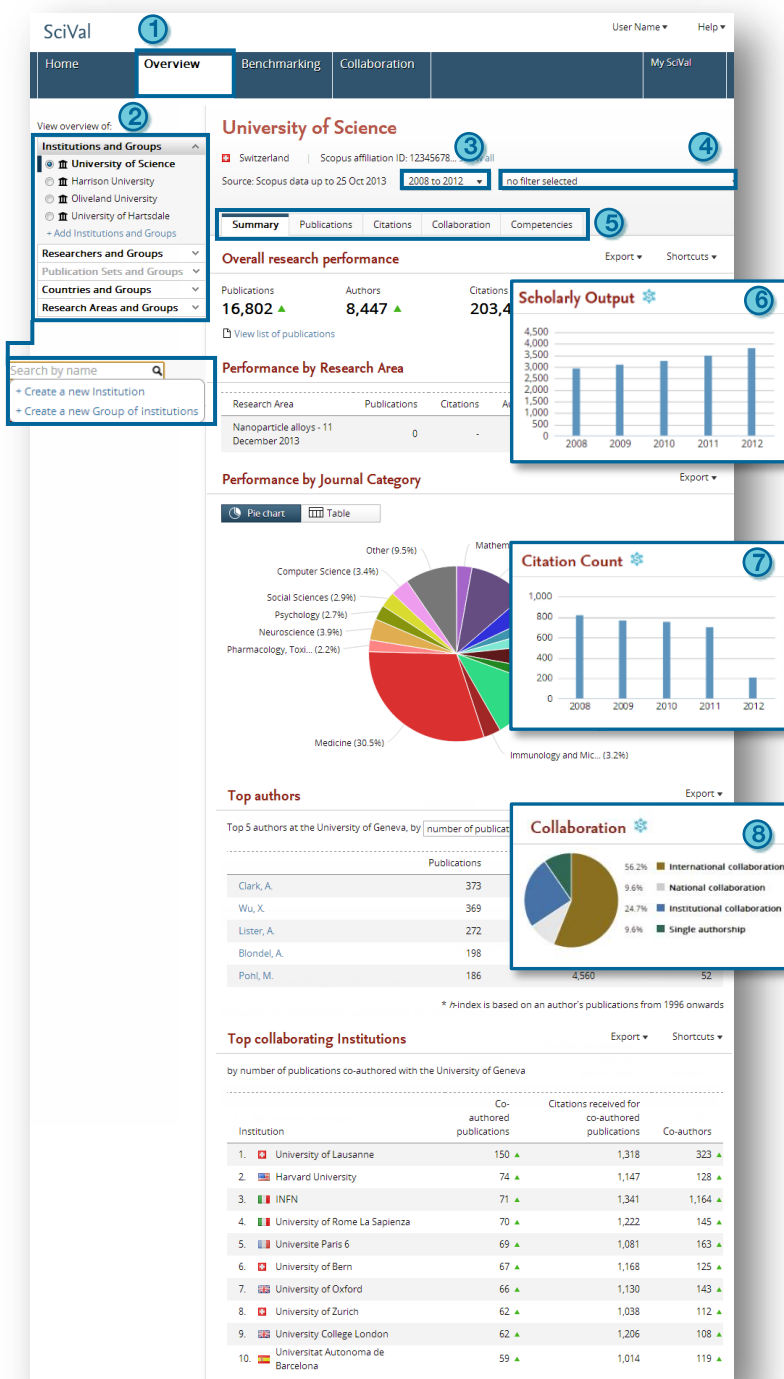
## Competency maps

In addition to the traditional metrics based on journal-based subject classifications, SciVal uses a bottom-up approach looking into actual citation patterns to identify highly specific research topics across scientific fields and provides insights into an institution's and a country's research competencies and its newly emerging interdisciplinary areas.
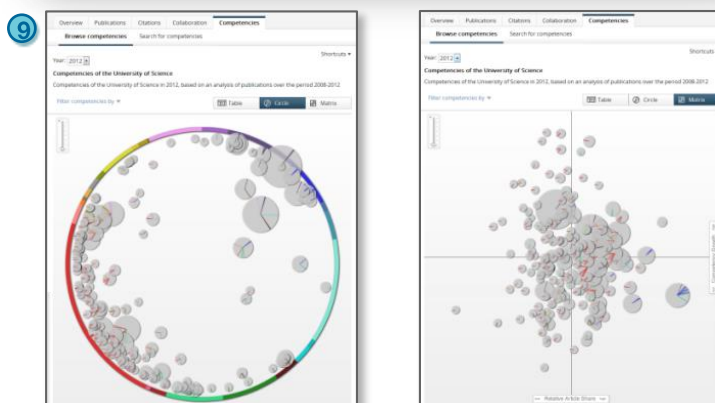
# Benchmark your progress

Assess your relative strengths and weaknesses by making custom selections of research groups, indicators and subject areas to compare and benchmark against.
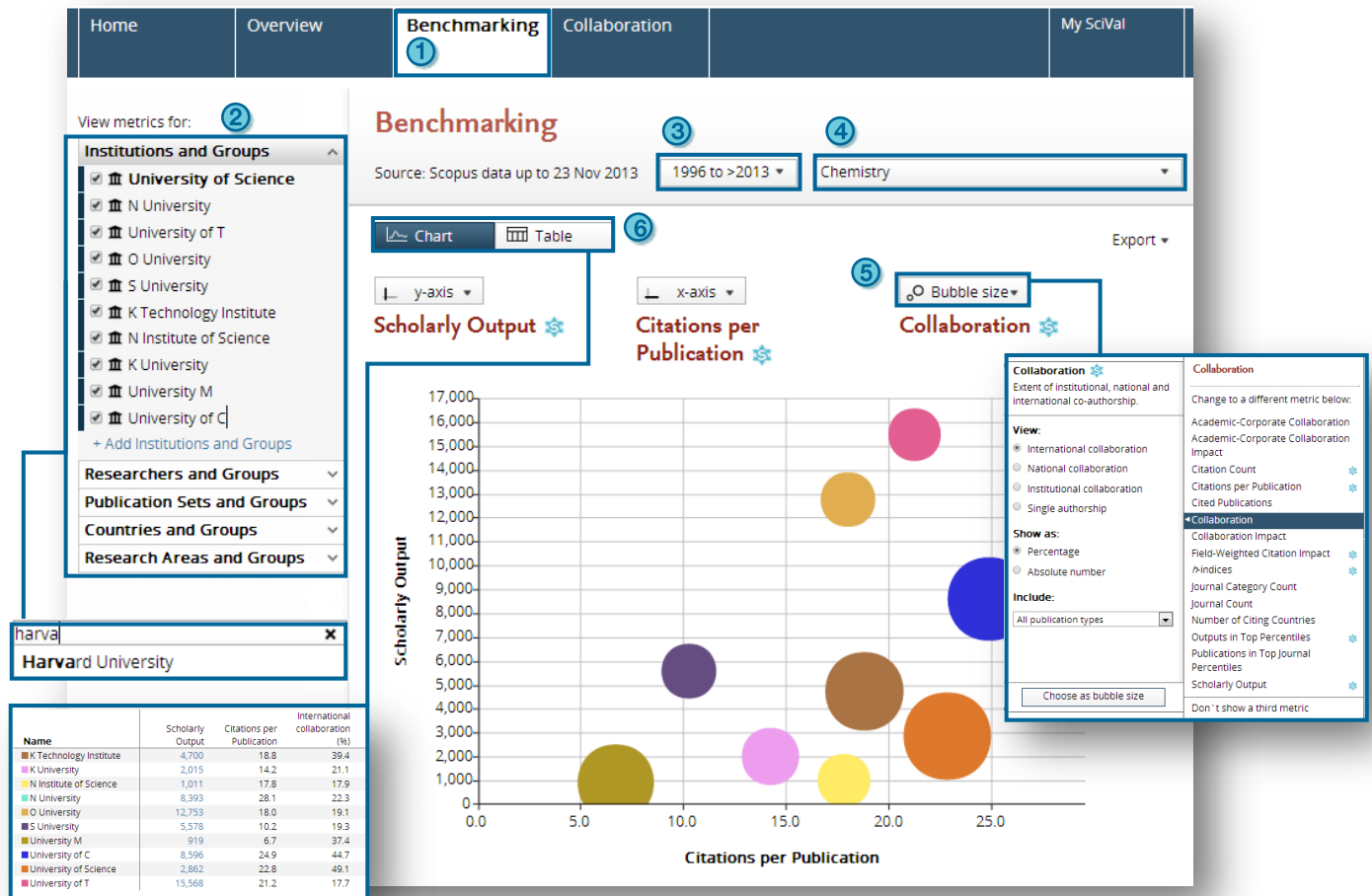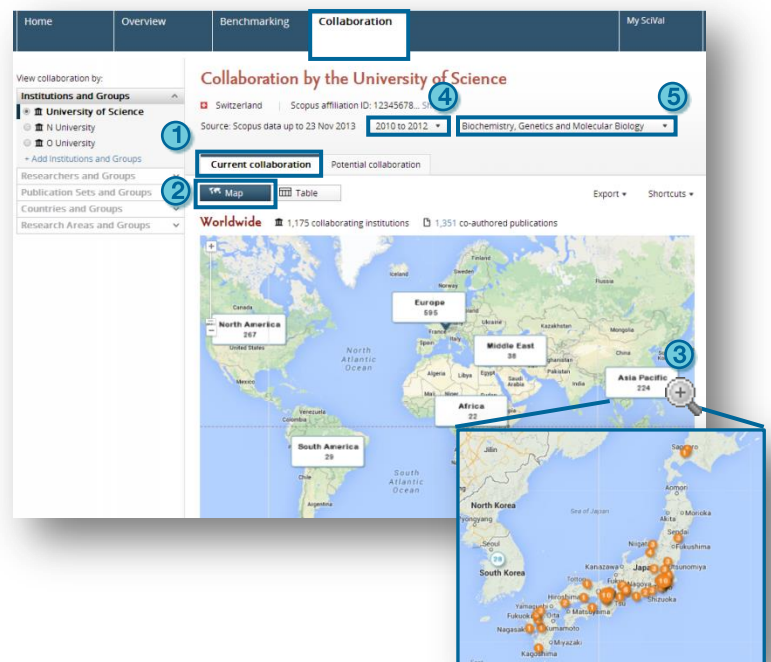


Select a country, region or "world" from *Country and Groups* to benchmark your relative performance, or create research areas using journals and subject classifications to benchmark against a research topic.

① **Benchmarking tab** provides advanced capabilities to perform in-depth analysis by combining flexible set of entities and metrics.

② **Using the entity panel,** select any desired combination of research entities you wish to benchmark.

**Add institutions or countries** by typing in the name, and SciVal will provide you with a list of pre-defined institutions and countries to select from.

**Add researchers, publication sets, research areas and groups** by creating your own (see next page).

③ **Select year range** between 1996 and the current year.

④ **Filter subject area** using 27 top level and 334 lower level subject areas based on Scopus ASJC.

⑤ **Select any combination of metrics** from the pull down list.

⑥ **Switch view** between chart and table.

# Identify and evaluate existing collaboration partners

Evaluate the existing research collaborations of any selected institutions. Start with a worldwide view of your institution's collaboration landscape, and then zoom in to individual collaborating institutions and researchers anywhere in the world.

**①** **Collaboration > Current collaboration tab** helps you to explore existing collaboration opportunities providing ranking of institutes and authors based on output and impact related metrics.

**②** **Select map view** to understand an institution's existing collaboration landscape on Google map.

**③** **Click on each region to zoom in** and understand collaboration country wise or state wise.

**④** **Select year range** from:
- 3 years (2011 to 2013)
- 3 years + current year (2011 to 2014)
- 3 years + current year + beyond current year (2011 to >2014)

- 5 years (2009 to 2013)
- 5 years + current year (2009 to 2014)
- 5 years + current year + beyond current year (2009 to >2014)

**⑤** **Filter subject area** using 27 top level and 334 lower level subject areas based on Scopus ASJC or your self-defined **Research Areas**.

**⑥** **Select table view** to access list of collaborating institutions.

**⑦** **Limit collaborating institutions by region and country** using a drop-down box.

**⑧** **Sort collaborating institutions by impact** using:
- Citations
- Citations per Publication
- Field-Weighted Citation Impact

**⑨** **Select institutions** to:
- assess output and impact of co-authored publications relative to performance of the entire institution
- view the subject area spread of co-authored publications

**⑩** **Identify collaborating authors** from each institution and identify which authors collaborate with each other.
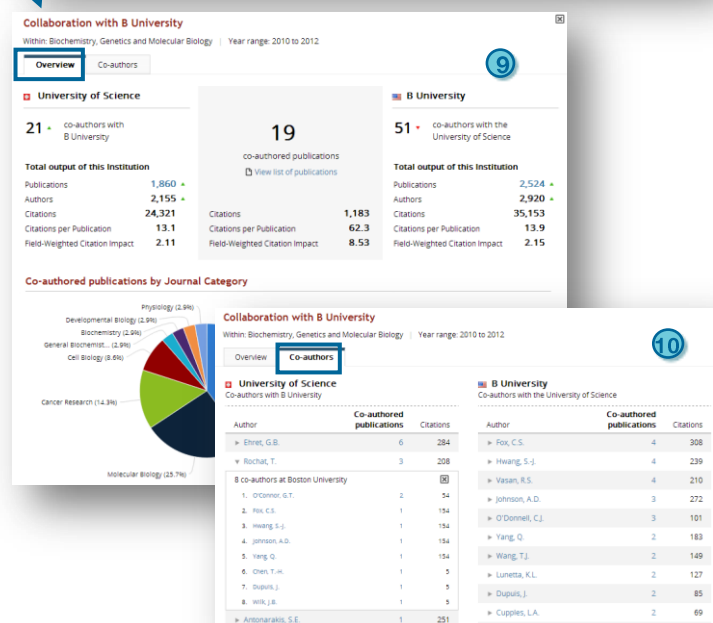
# Explore potential collaboration opportunities

Get access to a list of institutions that you haven't yet co-authored any paper with. Seek for candidates with the expertise you need, by drilling into specific research topics.

**①** **Collaboration > Potential collaboration tab** identifies institutions that you haven't yet co-authored any publications with. This allows you to explore potential new opportunities for collaboration.

**②** **Filter by subject area** to view potential collaboration partners within a specific field of research.

**Filter by your self-defined Research Areas** to look for institutions or researchers with specific expertise.

[See former page for interface navigation]



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💡 **Evaluate your potential collaboration partners**

Once you have identified potential institutions and researchers to collaborate with, you can:

- Glance through overview module to:
    - gain comprehensive overview of selected institutions
    - specify top authors per subject field of your interest
    - explore the institution's research competencies

- Compare candidate institutions using benchmarking module to:
    - assess unique strengths of selected institutions by combining different metrics
    - test scenarios by modeling teams with selected researchers
    - benchmark performance against potential competitors

- Review their collaboration partners using collaboration module to:
    - find out if anyone from your institution have co-author relationship
    - understand the top collaborators per discipline and how beneficial those collaborations are
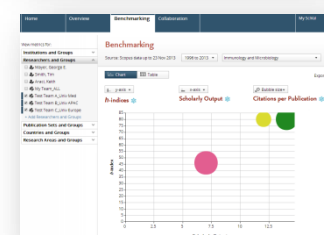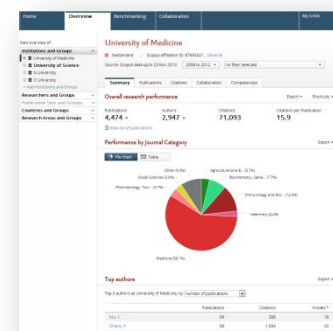
# Create your own Research Areas

SciVal offers a flexibility to create your own research areas, representing a field of research defined by you.

① **Research Areas** can represent a strategic priority, an emerging area of science, or any other topic of interest using below as the building blocks:

② Search terms
Search for publication sets using keyword(s)

③ Entities
Select and combine any of the below
- o Institutions (+ groups)
- o Countries (+ groups)
- o Journals and journal categories

④ Competencies
Select and combine competencies of any desired institutions or countries

Note: Computation of Research Areas with more than 1500 publications will take between 24-48 hours. You will be notified when the Research Area is available.

⑤ **Research areas** will be made available **across the platform to**:
- Assess your institution's performance within the field
- Identify top institutions and keywords
- See the publication and citation trends
- Explore new and potential collaboration partners
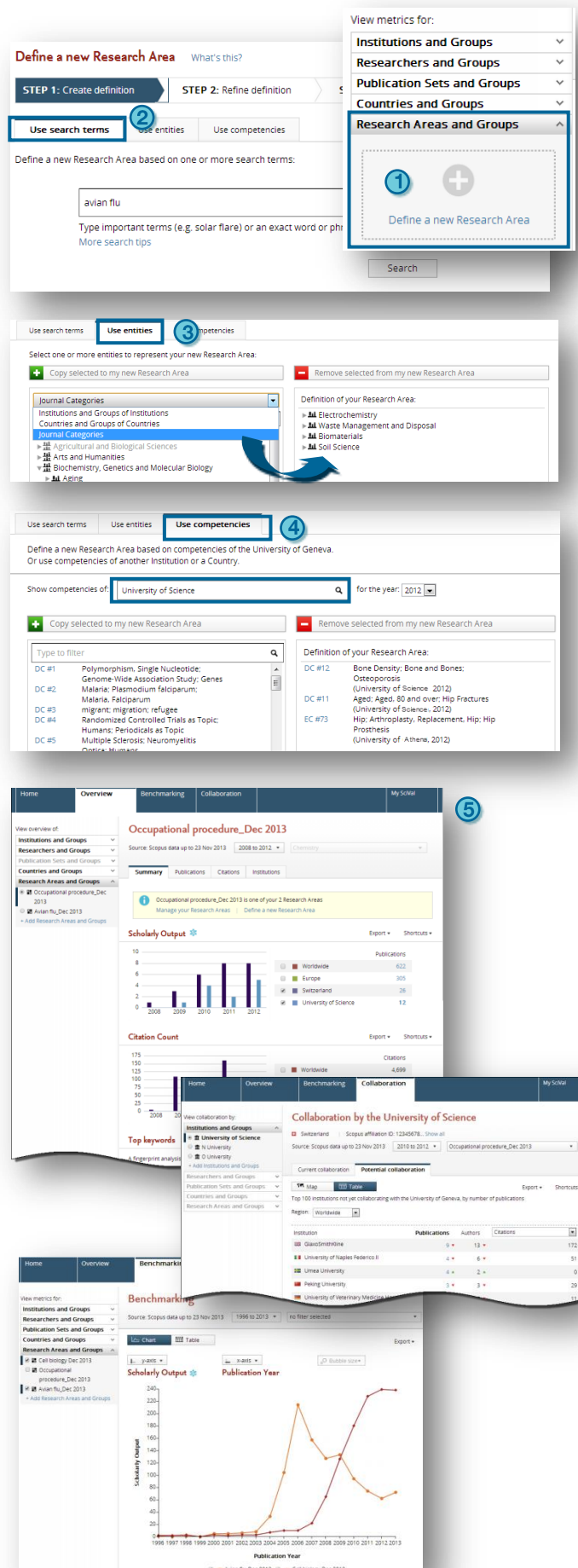
## Pre-defined entities

SciVal is a ready-to-use solution with access to pre-defined 4600+ institutions, 220 countries and groups.

Several groups of institutions and countries are made available such as EU27, US states, German Bundesländer and more.

You can also define your own institution based on:
- Publication sets (+ groups)
- Researchers (+ groups)
- Institutions (+ groups)
- Countries (+ groups)

# Define Researchers and Groups

SciVal allows you to assess "what if" scenarios by modeling your own team and comparing its performance against your peers'.

① **Define a new Researcher** by name search.

② **Select the author name variants** of the researcher you are looking for.

③ **Click next** and save your researcher.

   [Repeat to define each researcher.]

④ **Define a group of researchers** by selecting and combining your self-defined researchers.

### How is my team performing?
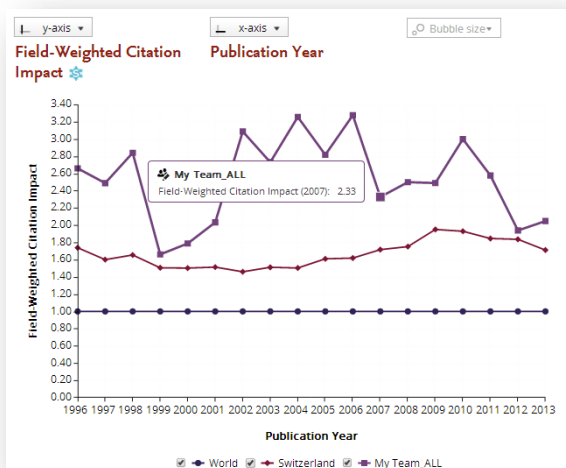


Once your research teams are defined, you can benchmark against institutions, countries, or the world's average using metrics such as Citations per Publication

When you combine author name variants, these changes will be reflected in Scopus within 2 weeks. You can also review the list of publications that will be sent to Scopus for further refinement.

# Define Publication Sets and Groups

You can create a subset of Researcher's publications. Create publication sets which you wish to use for grant applications, performance assessment and project managements.

① **Select a Researcher** defined by you.

② **Select your desired publications** and save.
   You can also group your self-defined publication sets by selecting **Define a new Groups of Publication Sets.**
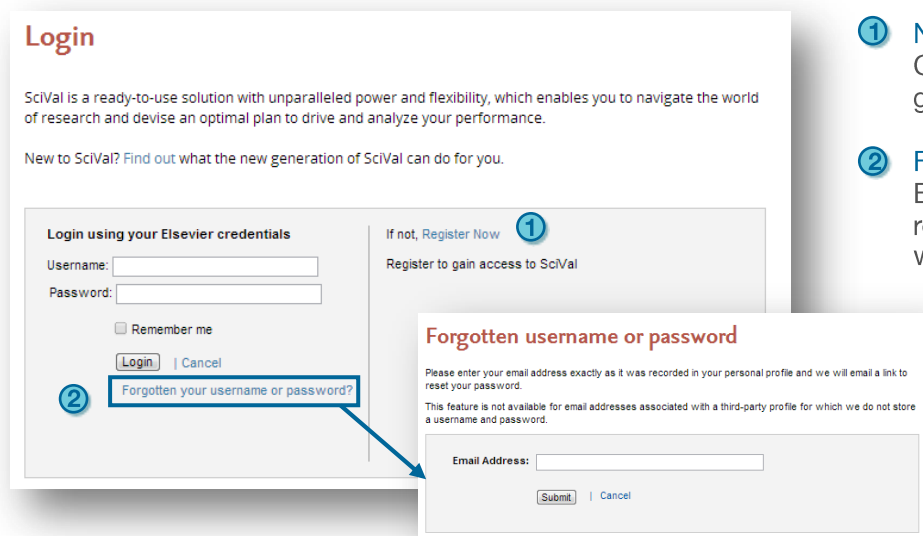
# Managing My SciVal

View and edit your self-defined research groups, publication sets and research areas
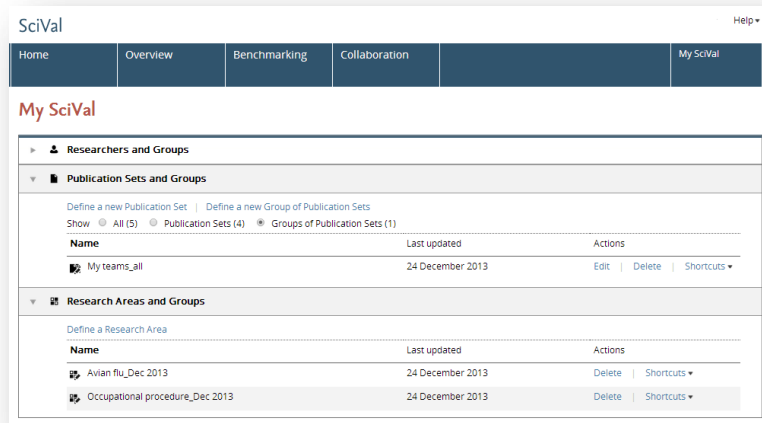


# How to login

Access **www.scival.com** and enter your username and password. Existing ScienceDirect and Scopus users can use the same login credentials.



① New to SciVal?
Click Register now to register yourself to get started.

② Forgotten your username or password?
Enter your email address you have registered, and you will receive an email with a link to reset your password.

# How to export

SciVal allows users to export data and charts for further use and analysis.



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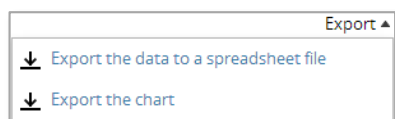
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