



Spanish National Bioinformatics Institute

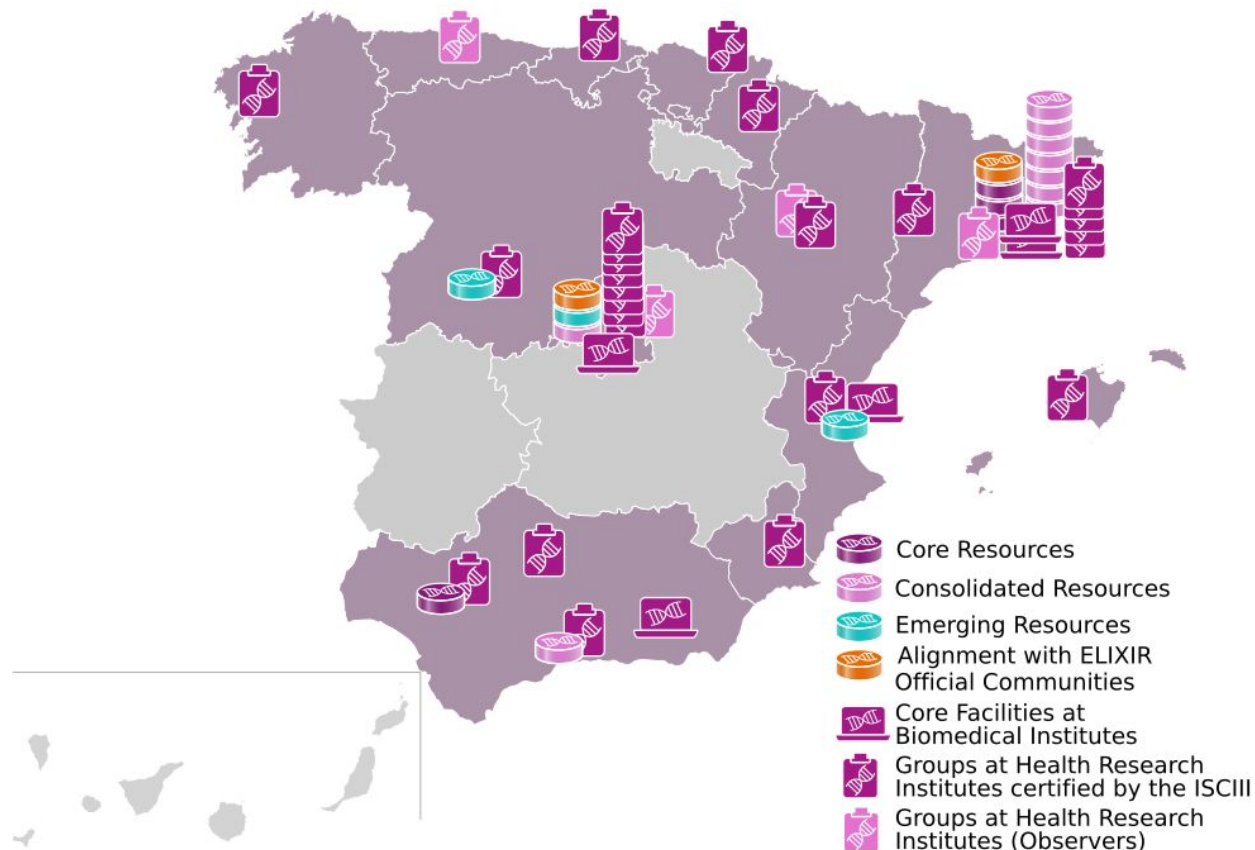
INB / ELIXIR-ES

INB. Strategic Plan 2018 - 2020

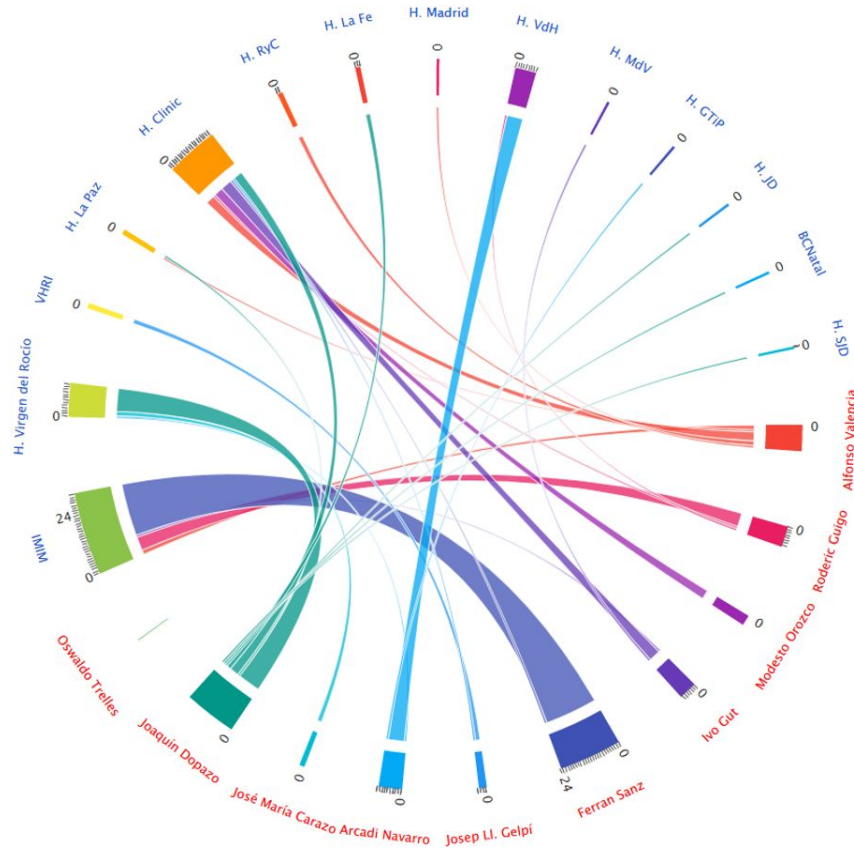
The **Spanish National Bioinformatics Institute (INB)** became one of the technological platforms of ISCIII with two overarching objectives:

1. Maintain and increase the alignment of the INB with **ELIXIR** looking for deeper synergies.
1. Increase the translational capacity of the INB towards the **Spanish National Health System (SNS)**.

INB. Strategic Plan 2018 - 2020



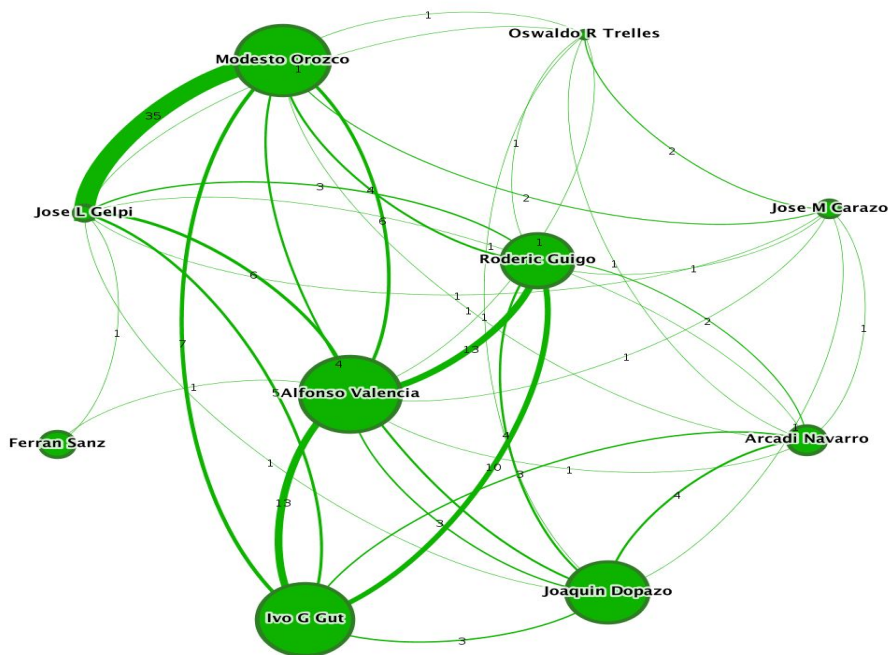
INB. Scientific & Social impact. Network visualization



Shared scientific publications between INB nodes and hospitals and Health Research Centers (IIS). Only INB nodes' PIs are considered, thus the information can be partial.

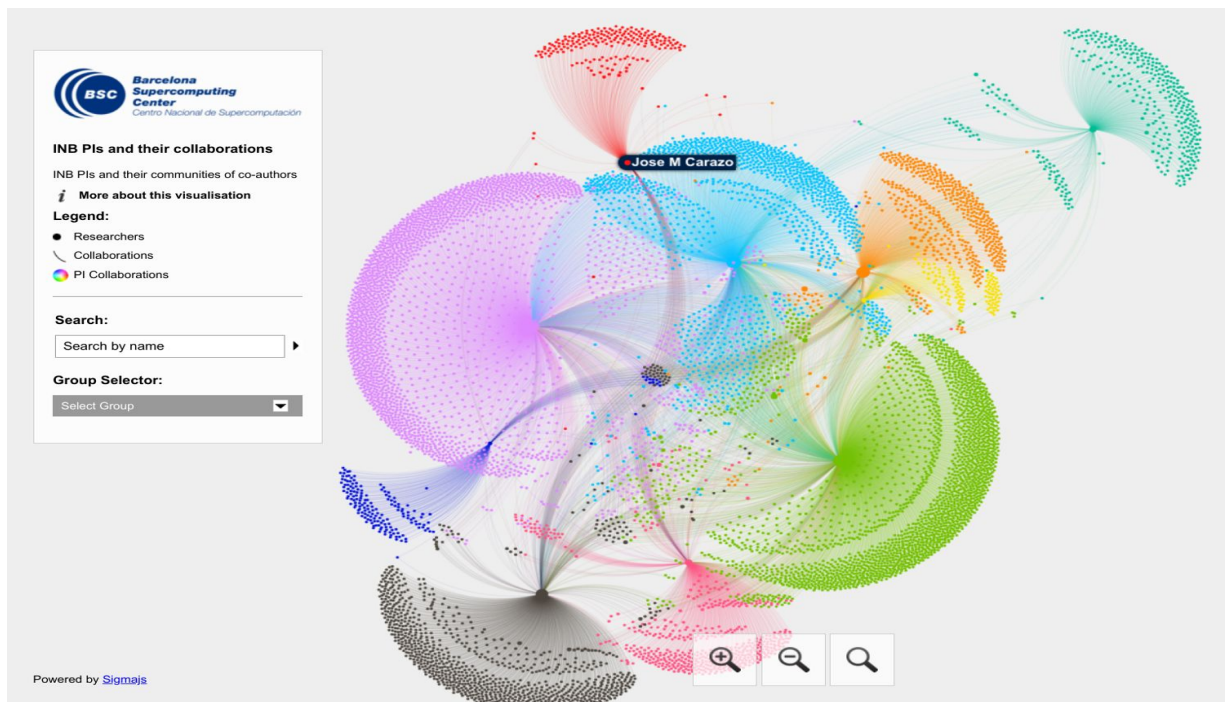
INB. Scientific & Social impact. Network visualization

Visualizing historical performance of INB. 2003 - 2017



INB. Scientific & Social impact. Network visualization

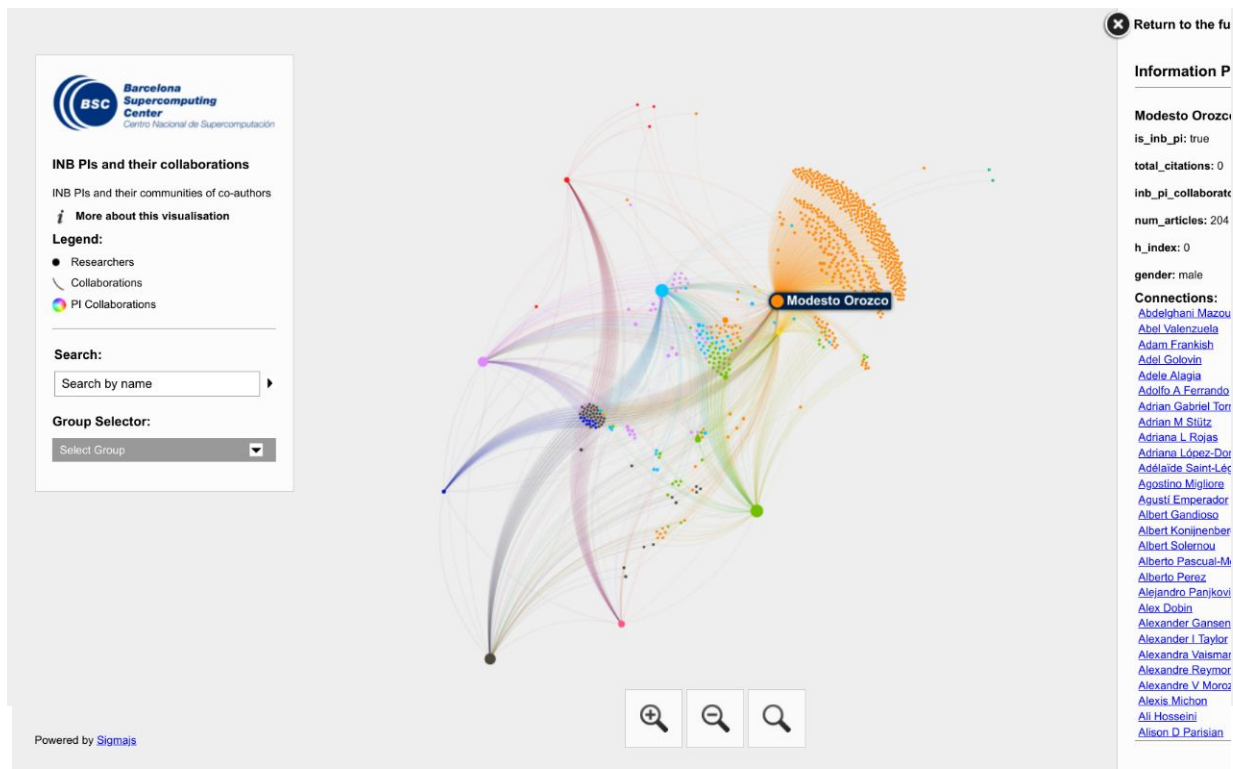
Visualizing historical performance of INB. 2003 - 2017



INB. Scientific & Social impact. Network visualization

Visualizing historical performance of INB. 2003 - 2017

Collaboration
sub-network
of one PI

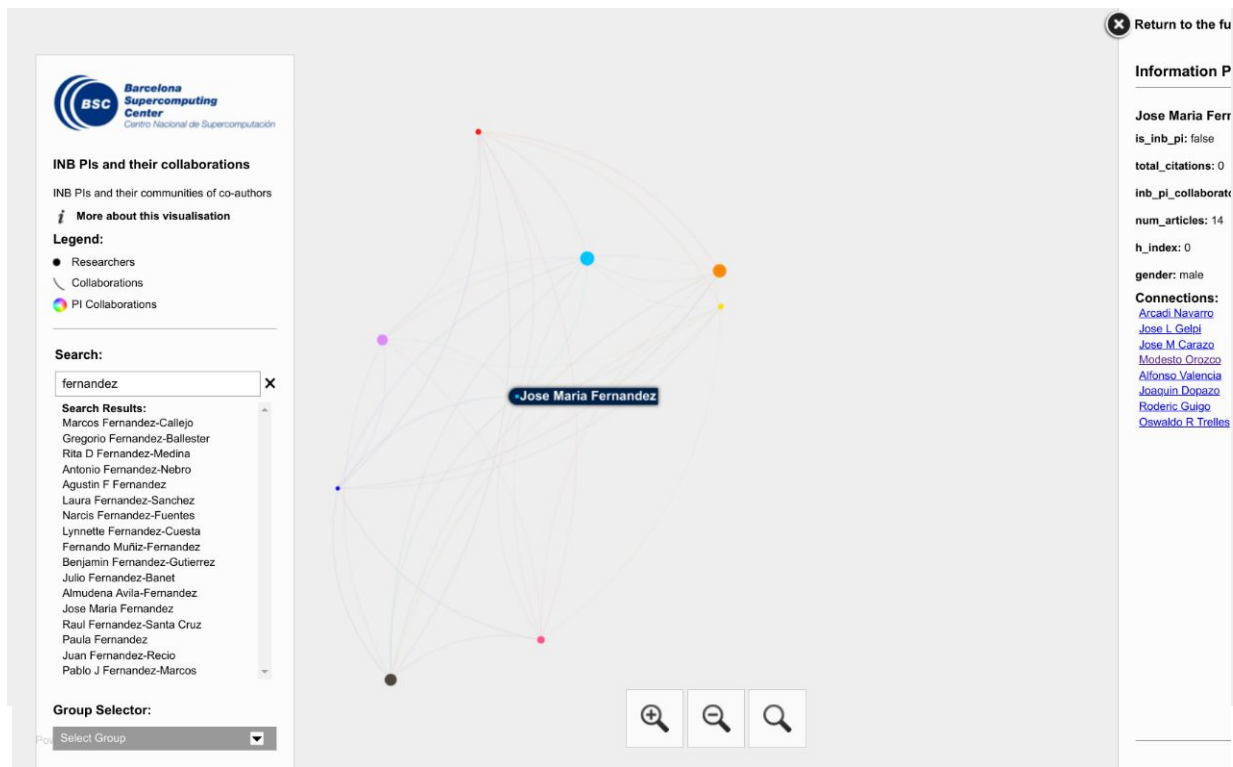


http://socialanalytics.bsc.es/inb_pis_net/

INB. Scientific & Social impact. Network visualization

Visualizing historical performance of INB. 2003 - 2017

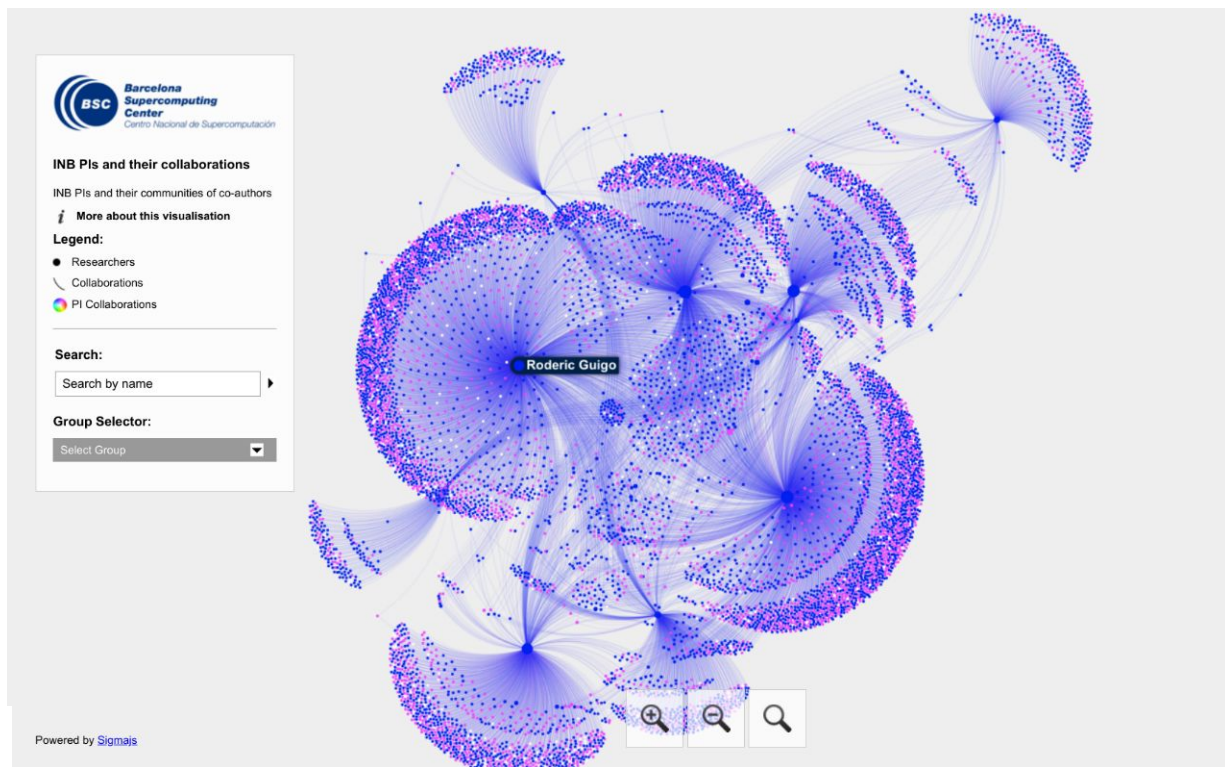
Collaboration
sub-network
of a developer



INB. Scientific & Social impact. Network visualization

Visualizing historical performance of INB. 2003 - 2017

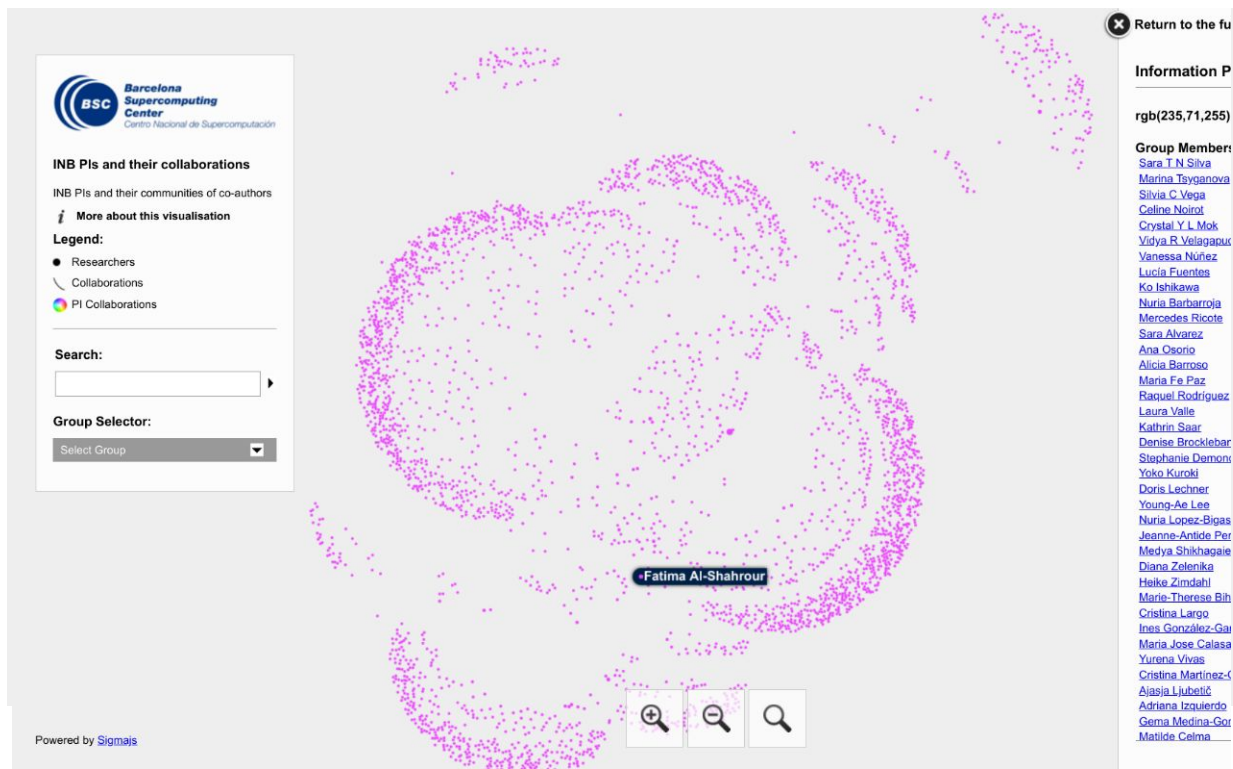
Gender
collaboration
network



INB. Scientific & Social impact. Network visualization

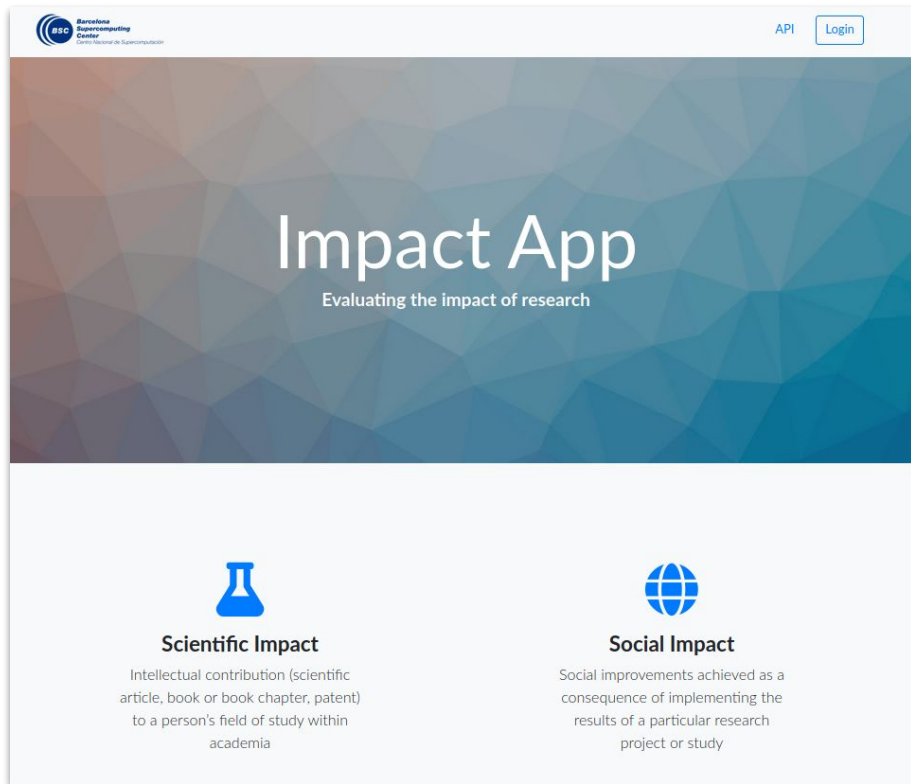
Visualizing historical performance of INB. 2003 - 2017

Gender collaboration network.
Female network appears to be disconnected as there were no female PI during that period



http://socialanalytics.bsc.es/inb_pis_net_gender

INB. Scientific & Social impact. Impact App



Social Analytics Group

Life Science Department

Barcelona Supercomputing Center (BSC)

Nataly Buslón – Jorge Saldivar
María José Rementeria

This impact work is based on the methodology developed by the European project **IMPACT-EV**, which had the aim to develop a permanent system of selection, monitoring and evaluation of the various impacts of Social Sciences and the Humanities research.



<http://socialanalytics.bsc.es/impactapp>

INB. Scientific & Social impact. Impact App



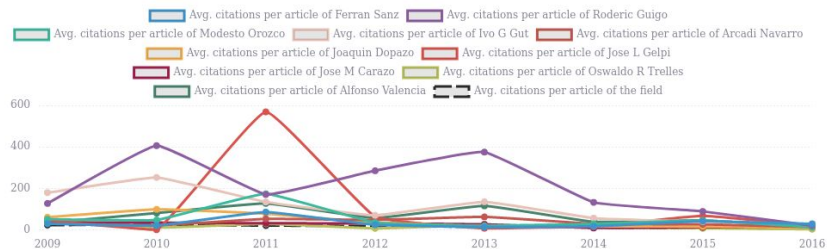
INB. Scientific & Social impact. Impact App

Set a period, sources, affiliations and metrics to calculate.

- ☐ **Scientific Impact** (Pubmed & Scopus)
 - ☐ INB
 - Total articles, total citations, average citations/article, scientific impact
 - Table scientific impact details, graphs of average citations/articles per year for the whole INB or per PI
 - ☐ PI
 - Total articles, total citations, average citations/article, scientific impact
 - Table scientific impact details, graph of average citations/articles per year, table articles of PI and citations
- ☐ **Social Impact**
 - ☐ Projects (CORDIS)
 - Total projects, active projects, projects with evidence of impact
 - Projects with evidence of impact
 - Details: dates, social targets (SDG - sustainable development goals), overall social impact score. Details of the evidence of the impact and additional documents.

INB. Scientific & Social impact. Impact App

Average Citations per Articles of the INB PIs by Year



Scientific Impact / Alfonso Valencia

TOTAL ARTICLES
177
Period: 2009-2016
Source: PubMed and Scopus

TOTAL CITATIONS
11175
Period: 2009-2016
Source: PubMed Central and Scopus

AVERAGE CITATIONS PER ARTICLE
63.14
Period: 2009-2016

SCIENTIFIC IMPACT
3.95
Period: 2009-2016
Indicates whether the performance of the scientist or institution is below (< 1), about (1) or above (1) the international impact of the field

Scientific Impact Details

Show 10 entries

Search:

Year	Publications ¹	Citations ²	Citations per Publication ³	% Not Cited Publications ⁴	% Self-citations ⁵	Avg. Citations in the Field ⁶	Scientific Impact ⁷	% Publication of the Total ⁸	Weighted Impact ⁹
2016	23	317	13.78	0.3	0.02	6.4	2.15	0.13	0.28
2015	26	1196	46	0	0.03	9.8	4.69	0.15	0.69
2014	30	777	25.9	0.15	0.03	13.5	3.08	0.11	0.35

Social Impact / Projects

TOTAL PROJECTS
26
Period: 2012-2019
Source: Cordis

ACTIVE PROJECTS
16

PROJECTS WITH EVIDENCE OF IMPACT
2

Project with evidence of impact

Show 10 entries

Search:

Name	Description	Status	Start date	End date	Coordinator	Impact target ¹	Score ²
MedBioinformatics	Creating medically-driven integrative bioinformatics applications focused on oncology, CNS disorders and their comorbidities	Finished	01/05/2015	30/04/2018	Consorcio Mar Parc De Salut De Barcelona (Spain)	Good health and well-being (SGD #3)	3 [more details]

Social Impact / Project / MedBioinformatics

DATES
01/05/2015 - 30/04/2018

SOCIAL TARGETS
Good health and well-being (SGD #3)

OVERALL SOCIAL IMPACT SCORE
3 out of 7
The methodology uses a scale of 1 to 7, where 7 indicates the maximum level of impact while 1 suggests some sort of impact.

Social Target: Good health and well-being (SGD #3)

Show 10 entries

Search:

Improvement (%) ¹	Description of Achievement	Sustainability ²	Replicability ³	Evidence is scientific or official ⁴	Score ⁵
-	Designed a tool that identifies tumor alterations that drive disease and detect those that may be therapeutically actionable	From its release in 2018, it is still being used.	The tool has been adopted by research centers and hospitals in Spain and Germany	No	3

INB. Scientific & Social impact. Next steps

Measure scientific performance for INB 2018 – 2020

- ☐ Temporal analysis to be performed e.g. network annual evolution
- ☐ Extend analysis to National, European & International Collaborations. At national level will be split into Clinical & Academics.
- ☐ Curation is needed for ensuring that all relevant articles are captured
- ☐ We plan to include articles citations according to PubMed (or Scopus).

Social impact as measured by projects' outcomes.

Spanish National Bioinformatics Institute

INB / ELIXIR-ES



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<http://inb-elixir.es>

