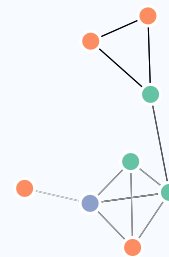


SERGIO RUIZ-CARMONA

I am currently a Research Officer and Bioinformatician at the [Baker Institute](#), under the supervision of professor [Mike Inouye](#). My research interests are broad and involve mainly the relationship between genetic variants and their effect on protein structures.

I carried out my MSc and PhD in Barcelona in the [Barril Lab](#), where I worked with different structure-based drug design methods with the aim to improve drug design for non-standard targets.



View this resume [online](#)



SELECTED EDUCATION

2017
|
2012

PhD in Biomedicine

Universitat de Barcelona

Barcelona, ES

- Virtual Screening for novel MoA: Apps. and method developments
- Development and application of **structure-based drug discovery** methods
- Awards: **Extraordinary prize** for PhD Thesis and **Ramon Margalef award** for best publication



SELECTED POSITIONS

Today
|
2019

Research Officer and Bioinformatician

Inouye Lab
Cambridge Baker Systems Genomics Initiative
Baker Heart and Diabetes Institute

Melbourne, AU

- As part of the Baker Bioinformatics facility, I give bioinformatics, statistical and data analysis support to the whole Institute, mainly in projects related with cardiovascular diseases and diabetes

2019
|
2015

Associate Professor

Faculty of Pharmacy, Universitat de Barcelona

Barcelona, ES

2017

EMBO Short-Term Fellow

Andreas Bender Lab, University of Cambridge

Cambridge, GB

- I spent 2 months in one of the main Pharmacogenomics groups in the world, where I used **gene-expression profiles** of different biological systems to study BRD4 and drug selectivity



MAIN SCIENTIFIC OUTPUT

2021

Oxygen Pathway Limitations in Patients with Chronic Thromboembolic Pulmonary Hypertension

[Circulation](#)

- Erin J Howden *, **Sergio Ruiz-Carmona** *, [...] Andre La Gerche, Marion Delcroix and Guido Claessen
- Result of a Bioinformatics Core collaboration. [Shiny app](#) developed

2021

Loss of the long non-coding RNA OIP5-AS1 exacerbates heart failure in a sex-specific manner

[iScience](#)

- Aowen Zhuang, A Calkin, [...] **Sergio Ruiz-Carmona**, [...] and Brian G Drew
- Result of a Bioinformatics Core collaboration

2017

Dynamic undocking and the quasi-bound state as tools for drug discovery

[Nature Chemistry](#)

- **Sergio Ruiz-Carmona**, P Schmidtke, [...] Rod Hubbard and Xavier Barril
- Highlighted in its [issue cover](#)

2014

rDock: a fast, versatile and open source program for docking ligands to proteins and nucleic acids

[PLoS Computational Biology](#)

- **Sergio Ruiz-Carmona**, Daniel Alvarez-Garcia, [...] Xavier Barril, Rod Hubbard and S David Morley

CONTACT

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🌐 [sruizcarmona](https://sruizcarmona.com)

in [Sergio Ruiz](#)

🌐 ruizsergio.com

PROGRAMMING SKILLS

R	
Bash	
Python	
Web Development	
SQL	

OTHER SKILLS

Highly experienced in:

computational biology
and drug design
bioinformatics and
biostatistics
data visualization
experimental techniques

Motivated and collaborative,
recently involved in NGS data
analysis and genomics
prediction

MORE INFO

See full CV at
ruizsergio.com/cv for a
complete list of positions,
publications and more



Source code available in [github](#)
Last updated on Jun 23, 2021