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CONTACT

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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

Recently involved in NGS data
analysis and genomics
prediction

MORE INFO

See full CV at
[ruizsergio.com/cv](https://www.ruizsergio.com/cv) for a more
complete list of positions,
publications and more

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.



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
Baker Heart and Diabetes Institute

📍 Melbourne, AU

- I am working in a project that overlaps Structural Biology and Genomics, in collaboration with David Ascher's Lab. Mainly, I am trying to understand how rare missense variants alter protein structures and can induce different diseases

2019
|
2015



Associate Professor

Faculty of Pharmacy, Universitat de Barcelona

📍 Barcelona, ES

- Classes in Pharmacy, Food Science and Nutrition degrees (total 400h)

2016
|
2011



Predoctoral Researcher

Barril Lab, Universitat de Barcelona

📍 Barcelona, ES

- Master's and PhD research projects in the Xavier Barril Lab



MAIN SCIENTIFIC OUTPUT

2021



Oxygen Pathway Limitations in Patients with Chronic Thromboembolic Pulmonary Hypertension

Circulation
Read it [here](#)

- Erin J Howden *, **Sergio Ruiz-Carmona** *, [...] Andre La Gerche, Marion Delcroix and Guido Claessen

2020



Var2Prot: A new tool to unravel the 3D structural effect of genetic variants

[Lorne Proteins 2020](#)
Oral Communication

📍 Lorne, AUS

2017



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

Nature Chemistry
Read it [here](#)

- **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
Read it [here](#)

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



Source code available in [github](#)
Last updated on May 19, 2021