



# David Mas-Ponte, PhD

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## Academic positions

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\* Current

- 06/2023-\* Postdoctoral Scholar  
Kelley Harris lab, Genome Sciences Department, University of Washington
- 01-06/2022 Visiting Student Researcher  
Ashby Morrison lab, Biology Department, Stanford University
- 2017-2022 PhD Student  
Fran Supek lab, Cancer Biology Department, Institute for Research in Biomedicine  
Barcelona
- 2016-2017 MSc Thesis Project  
Roderic Guigo lab (tutored by Rory Johnson), Bioinformatics Department, Centre for  
Genomic Regulation

## Education

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- 2017-2022 PhD, Biomedicine  
Universitat de Barcelona, Barcelona, Spain
- 2015-2017 MSc, Bioinformatics for Health Sciences, GPA: 9/10  
Universitat Pompeu Fabra, Barcelona, Spain
- 2011-2015 BS, Biotechnology, GPA: 8.5/10  
Universitat Autònoma de Barcelona, Spain
- 2014 International Exchange Student (undergrad)  
McGill University, Montreal, Canada

## Preprints and Submitted manuscripts

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\* lead or co-lead author

- 9 Young, Candice L, Beichman, Annabel C, **Mas-Ponte, David**, Hemker, Shelby L, Zhu, Luke, Kitzman, Jacob, Shirts, Brian H & Harris, Kelley ( 2023 ) A maternal germline mutator phenotype in a family affected by heritable colorectal cancer *medRxiv* [link](#)
- 8\* **Mas-Ponte, David** & Supek, Fran ( 2023 ) Mutation rate heterogeneity at the sub-gene scale due to local DNA hypomethylation *bioRxiv* [link](#)

## Peer-Reviewed Publications

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\* lead or co-lead author

- 7\* **Mas-Ponte, David**, McCullough, Marcel & Supek, Fran ( 2022 ) Spectrum of DNA mismatch repair failures viewed through the lens of cancer genomics and implications for therapy *Clinical Science* [link](#)
- 6 Carlevaro-Fita, Joana, Lanzós, Andrés, Feuerbach, Lars, Hong, Chen, **Mas-Ponte, David**, Pedersen, Jakob Skou & Johnson, Rory ( 2020 ) Cancer LncRNA Census reveals evidence for deep functional conservation of long noncoding RNAs in tumorigenesis *Communications biology* [link](#)

- 5\* **Mas-Ponte, David** & Supek, Fran ( 2020 ) DNA mismatch repair promotes APOBEC3-mediated diffuse hypermutation in human cancers *Nature genetics* [link](#)
- 4 Franco, Irene, Helgadottir, Hafdis T, Moggio, Aldo, Larsson, Malin, Vrtačnik, Peter, Johansson, Anna, Norgren, Nina, Lundin, Pär, **Mas-Ponte, David**, Nordström, Johan & others ( 2019 ) Whole genome DNA sequencing provides an atlas of somatic mutagenesis in healthy human cells and identifies a tumor-prone cell type *Genome biology* [link](#)
- 3 Salvadores, Marina, **Mas-Ponte, David** & Supek, Fran ( 2019 ) Passenger mutations accurately classify human tumors *PLoS computational biology* [link](#)
- 2 Flores-Bello, André, **Mas-Ponte, David**, Rosu, Miruna E, Bosch, Elena, Calafell, Francesc & Comas, David ( 2018 ) Sequence diversity of the Rh blood group system in Basques *European Journal of Human Genetics* [link](#)
- 1\* **Mas-Ponte, David**, Carlevaro-Fita, Joana, Palumbo, Emilio, Pulido, Toni Hermoso, Guigo, Roderic & Johnson, Rory ( 2017 ) LncATLAS database for subcellular localization of long noncoding RNAs *Rna* [link](#)

## Conferences

\* Talks

- 2023 \* European Society of Human Genetics (ESHG) Conference ( Glasgow, UK )
- 2021 \* European Association for Cancer Research (EACR) Bioinformatics Conference ( Virtual )
- 2019 ISMB/ECCB (ISCB) Conference ( Basel, Switzerland )
- 2018 EMBL Conference: From Functional Genomics to Systems Biology ( Heidelberg, Germany )

## Research Fellowships

- 2017-2022 Severo Ochoa - Formacion de Personal Investigador (SO-FPI) Fellowship - BES-2017-079820 - [website](#)  
Ministerio de Ciencia & Institute for Research in Biomedicine ( *IRB Barcelona* )
- 2015 JAE Intro Fellowships (undergraduate research) - [website](#)  
Consejo Superior de Investigaciones Cientificas ( *CSIC* ) & Institute for Evolutionary Biology ( *IBE* )
- 2014 “Passa l’Estiu al Parc!” Summer Fellowship (undergraduate research) - [website](#)  
Parc Cientific de Barcelona ( *PCB* ) & Institute Of Molecular Biology of Barcelona ( *IBMB* )

## Research Supervision

- 2023- Yu-Chen Pan, MSc student, *U. Washington*
- 2017-2018 Marina Salvadores, MSc student, *U. Pompeu Fabra (Bioinformatics)*

## Academic Service & Awards

- 2021 *Best scientific article (finalist)*, Societat Catalana de Biologia [website](#)
- 2018-2019 *Scientific Organizing Committee*, ‘19 ENABLE Conference (Nijmegen, [website](#)  
Netherlands)

Referee for Evolution, Medicine, and Public Health (2023).