Research/Working Experience

Education

```
## # A tibble: 3 x 5
##
     what
                                               with
                                                                          where why
                                   when
##
     <chr>>
                                   <chr>
                                               <chr>
                                                                          <chr> <chr> <
                                   2014 - 2017 Aix-Marseille Universite Mars~ <chr>
## 1 PhD in bioinformatics
## 2 Master in systems biology
                                   2013 - 2014 Institute de biology de ~ Pari~ <chr>
## 3 Bachelor in genomic sciences 2009 - 2013 Universidad Nacional Aut~ Cuer~ <chr>
```

Computational skills

```
## # A tibble: 13 x 5
##
     what
                                                           when with where why
                                                           <chr> <chr> <chr> <chr> <
##
  1 Proficient. Use of ggplot, tidyverse, Rmarkdown, Rcp~ <NA>
                                                                       <NA>
                                                                             <chr>>
##
  2 Proficient.
                                                           <NA> Perl
                                                                       <NA> <chr>
  3 Proficient.
                                                           <NA>
                                                                 Git
                                                                       <NA>
                                                                             <chr>>
##
   4 Beginner
                                                           <NA>
                                                                 CI/C~ <NA>
   5 Proficient. Development of pipelines for analysis of~ <NA>
                                                                 Snak~ <NA>
                                                                             <chr>>
   6 Intermediate. Use of pandas, polars, seaborn, plotly~ <NA>
                                                                 Pyth~ <NA>
                                                                             <chr>>
  7 Intermediate
                                                           <NA>
                                                                 Dock~ <NA>
## 8 Intermediate
                                                           <NA> GNU ~ <NA>
                                                                             <chr>>
## 9 Intermediate
                                                           <NA> Bash <NA> <chr>
## 10 Intermediate. Development of interactive hierarchica~ <NA> D3
                                                                       <NA> <chr>
## 11 Beginner
                                                           <NA>
                                                                 aws ~ <NA> <chr>
## 12 Intermediate. Development of interactive websites.
                                                           <NA> HTML~ <NA> <chr>
## 13 Experience with biological databases like TCGA, ICGC~ <NA>
                                                                 Other <NA> <chr>
```

Languages

Skill	Spanish	English	French	Norwegian
Reading	Native	B1	B1	A2
Writing	Native	B1	B1	A2
Listening	Native	B1	B1	A2
Speaking	Native	B1	B1	A2

Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Independent User. C1/C2: Proficient User

Publications

See the complete list of publications (including preprints) and citations in my google scholar profile: pcevKk0AAAA

ORCID profile: 0000-0003-4069-357X

- * = equal contributions (first-author)
- ^ = equal contributions (second-author)

= co-corresponding authors

Peer-reviewed

- 1. Taboada-Castro H, Hernandez-Alvarez AJ, Castro-Mondragon JA, and Encarnacion-Guervara S. Rhi-zoBindingSites v2.0 Is a Bioinformatic Database of DNA Motifs Potentially Involved in Transcriptional Regulation Deduced From Their Genomic Sites. Bioinformatics and Biology Insights. (2024)
- 2. Rauluseviciute I, Launay T, Barzaghi G, Nikumbh S, Lenhard B, Krebs AR, Castro-Mondragon JA, and Mathelier A. *Identification of transcription factor co-binding patterns with non-negative matrix factorization*. Nucleic Acids Research (2024)
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- 9. Riudavets-Puig R, Boddie P, Khan A, Castro-Mondragon JA, and Mathelier A. *UniBind: maps of high-confidence direct TF-DNA interactions across nine species*. BMC Genomics (2021)
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- 11. Ksouri N, Castro-Mondragon JA, Montardit-Tarda F, van Helden J, Contreras-Moreira B#, and Gogorcena Y#. Tuning promoter boundaries improves regulatory motif discovery in non-model plants: the peach example. Plant Physiology (2021)
- 12. Taboada-Castro H, **Castro-Mondragon JA**, Aguilar-Vera A, Hernandez-Alvarez AJ, van Helden J, and Encarnacion-Guervara S. *RhizoBindingSites*, a Database of DNA-Binding Motifs in Nitrogen-Fixing Bacteria Inferred Using a Footprint Discovery Approach. Frontiers in Microbiology (2020)
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- 21. Gama-Castro S*, Salgado H*, Santos-Zavaleta A, Ledezma-Tejeida D, Muñiz-Rascado L, García-Sotelo JS, Alquicira-Hernández K, Martínez-Flores I, Pannier L, **Castro-Mondragon JA**, Medina-Rivera A, Solano-Lira H, Bonavides-Martínez C, Pérez-Rueda E, Alquicira-Hernández S, Porrón-Sotelo L, López-Fuentes A, Hernández-Koutoucheva A, Del Moral-Chávez V, Rinaldi F, Collado-Vides J. RegulonDB version 9.0: high-level integration of gene regulation, coexpression, motif clustering and beyond. Nucleic Acids Research (2015)
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Preprints

No preprints at this moment.

Reviewed manuscripts

Web of Science (prev. Publons) profile: 1499198

Reviewed manuscripts in the following journals: Bioinformatics, Genetics, Molecular Plant, Nucleic Acids Research, Genome Biology, Genome Biology and Evolution, Frontiers in Genetics, eLife.

Personalia

```
## # A tibble: 2 x 5
## what when with where why
## <chr> <chr> <chr> <chr> <chr> <chr> < chr> <chr> <chr <chr <ol> <chr [0]>
## 2 Mexican <NA> Citizenship <NA> <chr [0]>
```

References