Research/Working Experience

Education

```
## # A tibble: 3 x 5
##
     what
                                   when
                                               with
                                                                          where why
##
     <chr>>
                                   <chr>
                                               <chr>
                                                                          <chr> <chr> <
## 1 PhD in bioinformatics
                                   2014 - 2017 Aix-Marseille Universite Mars~ <chr>
## 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> <chr> <chr> <lis>
   1 Proficient. Use of ggplot, tidyverse, Rmarkdown, Rcp~ <NA> R
                                                                        <NA> <chr>
##
## 2 Proficient.
                                                            <NA>
                                                                  Perl
                                                                        <NA> <chr>
## 3 Proficient.
                                                            <NA>
                                                                  Git
                                                                        <NA> <chr>
## 4 Beginner
                                                            <NA>
                                                                  CI/C~ <NA>
                                                                              <chr>>
  5 Proficient. Development of pipelines for analysis of~ <NA>
                                                                  Snak~ <NA>
  6 Intermediate. Use of pandas, polars, seaborn, plotly~ <NA>
                                                                  Pyth~ <NA>
## 7 Intermediate
                                                            <NA>
                                                                  Dock~ <NA>
                                                                              <chr>
## 8 Intermediate
                                                            <NA>
                                                                  GNU ~ <NA>
                                                                              <chr>>
## 9 Intermediate
                                                            <NA>
                                                                  Bash <NA>
                                                                              <chr>>
## 10 Intermediate. Development of interactive hierarchica~ <NA> D3
                                                                        <NA> <chr>
                                                            <NA>
                                                                  aws ~ <NA> <chr>
## 11 Beginner
## 12 Intermediate. Development of interactive websites.
                                                            <NA> HTML~ <NA> <chr>
## 13 Experience with biological databases like TCGA, ICGC~ <NA> Other <NA> <chr>
```

Languages

```
## # A tibble: 4 x 5
##
                                what
                                                                                                   when with where why
##
                                 <chr>>
                                                                                                     <chr> <chr< <li><chr< </l>  
## 1 Spanish
                                                                                                                                             <NA>
                                                                                                                                                                                      <NA>
                                                                                                     <NA>
                                                                                                                                                                                      <NA>
                                                                                                                                                                                                                              <chr [1]>
## 2 English
                                                                                                     <NA>
                                                                                                                                             <NA>
                                                                                                                                                                                                                              <chr [1]>
## 3 French
                                                                                                     <NA>
                                                                                                                                              <NA>
                                                                                                                                                                                      <NA>
                                                                                                                                                                                                                            <chr [1]>
## 4 Norwegian <NA>
                                                                                                                                             <NA>
                                                                                                                                                                                     <NA>
```

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)
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- 6. Santana-Garcia W*, Castro-Mondragon JA*, Padilla-Galvez M, Nguyen NTT, Elizondo-Salas A, Ksouri N, Gerbes F, Thieffry D, Vincens P, Contreras-Moreira B#, van Helden J#, Thomas-Chollier M#, Medina-Rivera A#. RSAT 2022: regulatory sequence analysis tools*. Nucleic Acids Research (2022)
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- 10. Ragle Aure M, Fleischer T, Bjørklund S, Ankill J, Castro-Mondragon JA, OSBREAC (Oslo Breast Cancer Research Consortium), Børresen-Dale AL, Tost J, Sahlberg KK, Mathelier A, Tekpli X#, Kristensen VN#. Crosstalk between microRNA expression and DNA methylation drives the hormone-dependent phenotype of breast cancer. Genome Medicine (2021)
- 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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- 17. Dao LM*, Galindo-Albarran AO*, Castro-Mondragon JA^, Andireu-Soler C^, Medina-Rivera A^, Souadi C, Charbonnier G, Griffon A, Vanhille L, Stephen S, Alomairi J, Soler C, Stephen T, Martin D, Torres M, Fernandez N, Soler E, van Helden J, Puthier D, Spicuglia S. Genome-wide characterization of mammalian promoters with distal enhancer functions. Nature Genetics (2017)
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- 19. Castro-Mondragon JA*, Rioualen C*, Contreras-Moreira B, van Helden J. RSAT::Plants: Motif Discovery in ChIP-Seq Peaks of Plant Genomes. Plant Synthetic Promoters Springer Protocol (2016)
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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 <ol> <chr [0]>
## 2 Mexican <NA> Citizenship <NA> <chr [0]>
```

References