

Rodolfo Aramayo, PhD

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EDUCATION AND TRAINING

Institution And Location

University of Brasília, Brasília, D.F., Brazil
University of Brasília, Brasília, D.F., Brazil
University of Georgia, Athens, GA, USA
University of Wisconsin, Madison, WI, USA
University of Wisconsin, Madison, WI, USA
Stanford University, Palo Alto, CA, USA

Degree/Title

BS
MS
PHD
Research Assistant
Assistant Researcher
Research Associate

Field Of Study

Molecular Biology
Molecular Biology
Genetics
Genetics
Genetics
Genetics

PROFESSIONAL SKILLS

- **Human, Fungal, and Bacterial Genetics and Genomics:** Expertise in understanding and analyzing genetic information across different organisms.
- **Bioinformatics Pipeline Development:** Proficient in creating robust pipelines for high-throughput data processing.
- **Next-Generation Sequencing (NGS):** Skilled in DNA and RNA sequencing, data analysis, and interpretation using technologies such as Illumina, Pacific Biosciences, and Ion Torrent.
- **Genome and Transcriptome Assembly and Annotation:** Comprehensive experience in assembling and annotating genetic information.
- **Comparative Genomics, Proteomics, and Metagenomics:** Advanced knowledge in comparing genomes, analyzing proteomics data, and studying metagenomic samples.
- **Algorithm Development:** Expertise in developing advanced algorithms for processing DNA, RNA, and protein sequence data, integrating them into machine learning and AI frameworks.
- **Programming and Scripting:** Proficient in Python (e.g., Pandas), R, Perl, C/C++, and UNIX platforms using Linux and Bash/Shell.
- **Cloud-Based Bioinformatics Solutions:** Skilled in connecting bioinformatics solutions to SQL and PostgreSQL databases.
- **Version Control:** Expertise in the deployment and use of Git/GitLab and GitHub for version control and collaboration.
- **Data Analysis and Visualization:** Experienced in deploying and using Jupyter Lab for comprehensive data analysis and visualization.
- **Genomic Data Analysis:** Proficient in using Galaxy for genomic data analysis and visualization.
- **Bioinformatics Software Implementation:** Capable of implementing advanced bioinformatics packages and software across diverse computing platforms, including cloud-based environments.
- **Statistical Analysis:** Competent with statistical analysis software like R, applying biological and statistical knowledge to draw actionable conclusions from complex datasets.
- **Molecular Biology and Biochemistry:** Advanced expertise in molecular biology techniques, including DNA, RNA, and protein extraction, purification, and characterization.
- **Industry Consultancy:** Experienced consultant known for strategic thinking and a results-oriented approach.
- **Analytical and Problem-Solving Skills:** Strong analytical and problem-solving skills with effective communication and organizational abilities adaptable to diverse audiences.
- **Innovative Thinking:** An interdisciplinary thinker with a knack for simplifying complex concepts and applying engineering mindsets to molecular techniques.
- **Leadership and Supervision:** Demonstrated leadership experience, having supervised research projects for numerous postdoctoral, graduate, and undergraduate students.

TEACHING SKILLS

Courses Developed:

- **Computational Genomics (Undergraduate Level) and Genomics (Graduate Level).** The Computational Genomics and Genomics courses equip students with fundamental skills in genome data acquisition, manipulation, and analysis, utilizing computational tools like Galaxy and CyVerse, to prepare them for the Genomics Revolution and contemporary biological research.
- **Digital Biology (Graduate Level).** Digital Biology is an introductory command-line-driven course aimed at preparing students for the paradigm shift in biology brought about by Genomics and Computational Genomics. It focuses on developing terminal-based skills for data manipulation, version control, scripting, and utilizing computational tools for mapping and assembly of transcriptome data, using resources like Cyverse and TAMU Supercomputer Grace.
- **Advanced Eukaryotic Genetics and Epigenetics (Graduate Level).** This advanced graduate level course delves into genetics and epigenetics topics related to RNA silencing, covering genetic approaches in both small and large eukaryotic organisms, including fungi and mice. It explores non-mendelian genetic segregation and the biology of non-coding RNAs, exposing students to current molecular and genetic literature. By the course's end, students are expected to possess advanced knowledge of genetic and epigenetic mechanisms in key model organisms and relevant epigenetic phenomena.
- **Information in Biology (Graduate and Undergraduate Levels).** This course aimed to tackle the interdisciplinary nature of information transfer in biology, exploring the laws and processes governing it. The hypothesis posited was that similar principles observed in other systems, such as large corporations, also apply to unicellular organisms like *Escherichia coli*, and vice versa. The ultimate goal was to translate these concepts into the development of software or hardware with properties of "evolvability."

Courses Taught: Cellular and Molecular Biology, Fundamentals of Microbiology, and Bacterial Genetics

EMPLOYMENT

1. Associate Professor.
Department of Biology, College of Arts and Sciences.
Texas A&M University, College Station, TX, USA
2. Assistant Professor.
Department of Biology, College of Science.
Texas A&M University, College Station, TX, USA
3. Basic Life Science Research Associate. Department of Life Sciences.
Stanford University, Palo Alto, CA, USA
4. Assistant Researcher. Department of Biomolecular Chemistry.
University of Wisconsin, Madison, WI, USA
5. Research Assistant. Department of Biomolecular Chemistry.
University of Wisconsin, Madison, WI, USA
6. Researcher II. Division of Genetic Engineering.
National Center for Genetic Resources and Biotechnology (CENARGEN), EMBRAPA.
Brasilia, D.F., Brazil

SCIENTIFIC APPOINTMENTS

1. Editor. PeerJ, The Journal of Life & Environmental Sciences.
San Diego, CA, USA
2. Section Editor – Genetics and Genomics. PLoS ONE, Public Library of Science One.
San Francisco, CA, USA
3. Editor. The International Journal of Biological Sciences.
BiolSci Editorial. P.O. Box 19617. Toronto M4W 3T9 Canada
4. Editor. Fungal Genetics Newsletter. Fungal Genetics Stock Center.

Department of Microbiology. University of Kansas Medical Center.
Kansas City, Kansas 66160-7420 USA

5. Editor. The Open Mycology Journal. Bentham Open

INDUSTRIAL CONSULTING EXPERIENCE

1. Genencor, Palo Alto, CA, USA
Area(s) of Expertise: Genetics and Genomics
2. Schering-Plough Research Institute, Kenilworth, NJ, USA
Area(s) of Expertise: Genetics and Genomics
3. Scriptgen Pharmaceuticals, Waltham, MA, USA
Area(s) of Expertise: Genetics and Genomics

GOVERNMENT CONSULTING EXPERIENCE

1. National Center for Genetic Resources and Biotechnology (CENARGEN).
EMBRAPA. Brasília, D. F., Brazil
Area(s) of Expertise:
Development of Software for the analysis of nucleic acids and proteins
Development of Optimization Algorithms applied to Biotechnology and Agriculture
Development of laboratory automation applied to Biotechnology

LANGUAGES

1. Spanish: Advanced
2. Portuguese: Advanced

PEER-REVIEWED PUBLICATIONS

1. Bennett CJ, Aramayo R. A Re-Analysis of an Existing *Drosophila melanogaster* Dataset Reveals a New Set of Genes Involved in Post-Mating Response. *bioRxiv*. 2024:2024.04.10.588867. doi: 10.1101/2024.04.10.588867.
2. Aramayo R. Evaluating the impact of sequence duplications on the measurement of transcriptional profiling in the Human genome. 2024; In Preparation.
3. Aramayo R, Nan B. De Novo Assembly and Annotation of the Complete Genome Sequence of *Myxococcus xanthus* DZ2. *Microbiol Resour Announc*. 2022;11(5):e0107421. Epub 20220406. doi: 10.1128/mra.01074-21. PubMed PMID: 35384715; PMCID: PMC9119067.
4. Gerth M, Martinez-Montoya H, Ramirez P, Masson F, Griffin JS, Aramayo R, Siozios S, Lemaitre B, Mateos M, Hurst GDD. Rapid molecular evolution of *Spiroplasma* symbionts of *Drosophila*. *Microb Genom*. 2021;7(2). doi: 10.1099/mgen.0.000503. PubMed PMID: 33591248; PMCID: PMC8208695.
5. Maitra N, He C, Blank HM, Tsuchiya M, Schilling B, Kaeberlein M, Aramayo R, Kennedy BK, Polymenis M. Translational control of methionine and serine metabolic pathways underpin the paralog-specific phenotypes of Rpl22 ribosomal protein mutants in cell division and replicative longevity. *bioRxiv*. 2020.
6. Maitra N, He C, Blank HM, Tsuchiya M, Schilling B, Kaeberlein M, Aramayo R, Kennedy BK, Polymenis M. Translational control of one-carbon metabolism underpins ribosomal protein phenotypes in cell division and longevity. *Elife*. 2020;9:e53127. Epub 20200520. doi: 10.7554/eLife.53127. PubMed PMID: 32432546; PMCID: PMC7263821.
7. Mateos M, Silva NO, Ramirez P, Higareda-Alvear VM, Aramayo R, Erickson JW. Effect of heritable symbionts on maternally-derived embryo transcripts. *Sci Rep*. 2019;9(1):8847. Epub 20190620. doi: 10.1038/s41598-019-45371-0. PubMed PMID: 31222094; PMCID: PMC6586653.
8. Stavrianakou M, Perez R, Wu C, Sachs MS, Aramayo R, Harlow M. Draft de novo transcriptome assembly and proteome characterization of the electric lobe of *Tetronarce californica*: a molecular tool for the study of cholinergic neurotransmission in the electric organ. *BMC Genomics*.

2017;18(1):611. Epub 20170814. doi: 10.1186/s12864-017-3890-4. PubMed PMID: 28806931; PMCID: PMC5557070.

9. Li H, Wu C, Aramayo R, Sachs MS, Harlow ML. Synaptic vesicles isolated from the electric organ of *Torpedo californica* and from the central nervous system of *Mus musculus* contain small ribonucleic acids (sRNAs). *Genom Data*. 2017;12:52-3. Epub 20170308. doi: 10.1016/j.gdata.2017.02.015. PubMed PMID: 28367405; PMCID: PMC5361766.
10. Clanton RM, Wu G, Akabani G, Aramayo R. Control of seizures by ketogenic diet-induced modulation of metabolic pathways. *Amino Acids*. 2017;49(1):1-20. Epub 20160928. doi: 10.1007/s00726-016-2336-7. PubMed PMID: 27683025.
11. Blank HM, Perez R, He C, Maitra N, Metz R, Hill J, Lin Y, Johnson CD, Bankaitis VA, Kennedy BK, Aramayo R, Polymenis M. Translational control of lipogenic enzymes in the cell cycle of synchronous, growing yeast cells. *EMBO J*. 2017;36(4):487-502. Epub 20170105. doi: 10.15252/embj.201695050. PubMed PMID: 28057705; PMCID: PMC5694946.
12. Aramayo R, Polymenis M. Ribosome profiling the cell cycle: lessons and challenges. *Curr Genet*. 2017;63(6):959-64. Epub 20170427. doi: 10.1007/s00294-017-0698-3. PubMed PMID: 28451847; PMCID: PMC5790165.
13. Saucedo DJ AR, Youssef S, Dima A, Chaudhary N, Karaman I, Perez R, Aramayo R., editor. *Data and Tools for Materials Discovery and Design*. Data and Tools for Materials Discovery and Design Materials Science & Technology 2015; 2015 October 4; Columbus, OH, USA Columbus, OH: Conference Tools for Materials Science & Technology 2015; c2015; 2015.
14. Polymenis M, Aramayo R. Translate to divide: small es, Cyrillicontrol of the cell cycle by protein synthesis. *Microb Cell*. 2015;2(4):94-104. Epub 20150320. doi: 10.15698/mic2015.04.198. PubMed PMID: 28357283; PMCID: PMC5348972.
15. Li H, Wu C, Aramayo R, Sachs MS, Harlow ML. Synaptic vesicles contain small ribonucleic acids (sRNAs) including transfer RNA fragments (trfRNA) and microRNAs (miRNA). *Sci Rep*. 2015;5(1):14918. Epub 20151008. doi: 10.1038/srep14918. PubMed PMID: 26446566; PMCID: PMC4597359.
16. Ilori MO, Picardal FW, Aramayo R, Adebuseye SA, Obayori OS, Benedik MJ. Catabolic plasmid specifying polychlorinated biphenyl degradation in *Cupriavidus* sp. strain SK-4: mobilization and expression in a pseudomonad. *J Basic Microbiol*. 2015;55(3):338-45. Epub 20130621. doi: 10.1002/jobm.201200807. PubMed PMID: 23787897.
17. Aramayo R, Selker EU. *Neurospora crassa*, a model system for epigenetics research. *Cold Spring Harb Perspect Biol*. 2013;5(10):a017921. Epub 20131001. doi: 10.1101/cshperspect.a017921. PubMed PMID: 24086046; PMCID: PMC3783048.
18. Wajid B AR, Serpedin E., editor. *Exploring Minimum Description Length and Probabilistic Distributions of the Reference Sequences for Comparative Assembly of Genomes*. In: Cristea P, editor *Proceedings of the International Conference International Conference on Genomic Signal Processing*; 2011.
19. Lee DW, Millimaki R, Aramayo R. QIP, a component of the vegetative RNA silencing pathway, is essential for meiosis and suppresses meiotic silencing in *Neurospora crassa*. *Genetics*. 2010;186(1):127-33.
20. Borkovich K, Ebbole DJ. *Cellular and molecular biology of filamentous fungi*. American Society for Microbiology Press; 2010.
21. Aramayo R, Pratt RJ. Meiotic trans□Sensing and Silencing in *Neurospora*. *Cellular and Molecular Biology of Filamentous Fungi*. 2010:132-44.
22. Lee DW, Freitag M, Selker EU, Aramayo R. A cytosine methyltransferase homologue is essential for sexual development in *Aspergillus nidulans*. *PLoS one*. 2008;3(6):e2531.
23. Hu JC, Aramayo R, Bolser D, Conway T, Elisk CG, Gribskov M, Kelder T, Kihara D, Knight TF, Jr., Pico AR, Siegle DA, Wanner BL, Welch RD. The emerging world of wikis. *Science*. 2008;320(5881):1289-90. doi: 10.1126/science.320.5881.1289b. PubMed PMID: 18535227.
24. Ng DW, Wang T, Chandrasekharan MB, Aramayo R, Kertbundit S, Hall TC. Plant SET domain-containing proteins: structure, function and regulation. *Biochim Biophys Acta*. 2007;1769(5-

- 6):316-29. Epub 20070412. doi: 10.1016/j.bbaexp.2007.04.003. PubMed PMID: 17512990; PMCID: PMC2794661.
25. Kelly WG, Aramayo R. Meiotic silencing and the epigenetics of sex. *Chromosome Res.* 2007;15(5):633-51. doi: 10.1007/s10577-007-1143-0. PubMed PMID: 17674151; PMCID: PMC4090689.
26. Pratt RJ, Lee DW, Aramayo R. DNA methylation affects meiotic trans-sensing, not meiotic silencing, in *Neurospora*. *Genetics.* 2004;168(4):1925-35.
27. Lee DW, Seong KY, Pratt RJ, Baker K, Aramayo R. Properties of unpaired DNA required for efficient silencing in *Neurospora crassa*. *Genetics.* 2004;167(1):131-50. doi: 10.1534/genetics.167.1.131. PubMed PMID: 15166142; PMCID: PMC1470857.
28. Freitag M, Lee DW, Kothe GO, Pratt RJ, Aramayo R, Selker EU. DNA methylation is independent of RNA interference in *Neurospora*. *Science.* 2004;304(5679):1939-.
29. Borkovich KA, Alex LA, Yarden O, Freitag M, Turner GE, Read ND, Seiler S, Bell-Pedersen D, Paietta J, Plesofsky N, Plamann M, Goodrich-Tanrikulu M, Schulte U, Mannhaupt G, Nargang FE, Radford A, Selitrennikoff C, Galagan JE, Dunlap JC, Loros JJ, Catcheside D, Inoue H, Aramayo R, Polymenis M, Selker EU, Sachs MS, Marzluf GA, Paulsen I, Davis R, Ebbole DJ, Zelter A, Kalkman ER, O'Rourke R, Bowring F, Yeadon J, Ishii C, Suzuki K, Sakai W, Pratt R. Lessons from the genome sequence of *Neurospora crassa*: tracing the path from genomic blueprint to multicellular organism. *Microbiol Mol Biol Rev.* 2004;68(1):1-108. doi: 10.1128/MMBR.68.1.1-108.2004. PubMed PMID: 15007097; PMCID: PMC362109.
30. Bogomolnaya LM, Pathak R, Guo J, Cham R, Aramayo R, Polymenis M. Hym1p affects cell cycle progression in *Saccharomyces cerevisiae*. *Curr Genet.* 2004;46(4):183-92. Epub 20040910. doi: 10.1007/s00294-004-0527-3. PubMed PMID: 15365764.
31. Lee DW, Pratt RJ, McLaughlin M, Aramayo R. An argonaute-like protein is required for meiotic silencing. *Genetics.* 2003;164(2):821.
32. Lee DW, Haag JR, Aramayo R. Construction of strains for rapid homokaryon purification after integration of constructs at the histidine-3 (*his-3*) locus of *Neurospora crassa*. *Current genetics.* 2003;43(1):17-23.
33. Kutil BL, Seong K-Y, Aramayo R. Unpaired genes do not silence their paired neighbors. *Current genetics.* 2003;43(6):425-32.
34. JR H, R A. Construction of a *his-3* integration vector capable of performing GATEWAY™ recombinational cloning for high-throughput analysis of *Neurospora crassa*. *Fungal Genetics Newsletter.* 2003;50:6-8.
35. Han BK, Aramayo R, Polymenis M. The G1 cyclin *Cln3p* controls vacuolar biogenesis in *Saccharomyces cerevisiae*. *Genetics.* 2003;165(2):467-76. doi: 10.1093/genetics/165.2.467. PubMed PMID: 14573462; PMCID: PMC1462773.
36. Haag JR, Lee DW, Aramayo R. A GATEWAY™ Destination Vector For High-Throughput Construction of *Neurospora crassa* histidine-3 Gene Replacement Plasmids. *Fungal Genetics Newsletter.* 2003:6-8.
37. Galagan JE, Calvo SE, Borkovich KA, Selker EU, Read ND, Jaffe D, FitzHugh W, Ma LJ, Smirnov S, Purcell S, Rehman B, Elkins T, Engels R, Wang S, Nielsen CB, Butler J, Endrizzi M, Qui D, Ianakiev P, Bell-Pedersen D, Nelson MA, Werner-Washburne M, Selitrennikoff CP, Kinsey JA, Braun EL, Zelter A, Schulte U, Kothe GO, Jedd G, Mewes W, Staben C, Marcotte E, Greenberg D, Roy A, Foley K, Naylor J, Stange-Thomann N, Barrett R, Gnerre S, Kamal M, Kamvysselis M, Mauceli E, Bielke C, Rudd S, Frishman D, Krystofova S, Rasmussen C, Metzenberg RL, Perkins DD, Kroken S, Cogoni C, Macino G, Catcheside D, Li W, Pratt RJ, Osmani SA, DeSouza CP, Glass L, Orbach MJ, Berglund JA, Voelker R, Yarden O, Plamann M, Seiler S, Dunlap J, Radford A, Aramayo R, Natvig DO, Alex LA, Mannhaupt G, Ebbole DJ, Freitag M, Paulsen I, Sachs MS, Lander ES, Nusbaum C, Birren B. The genome sequence of the filamentous fungus *Neurospora crassa*. *Nature.* 2003;422(6934):859-68. doi: 10.1038/nature01554. PubMed PMID: 12712197.

38. Pratt RJ, Aramayo R. Improving the efficiency of gene replacements in *Neurospora crassa*: a first step towards a large-scale functional genomics project. *Fungal Genet Biol.* 2002;37(1):56-71. doi: 10.1016/s1087-1845(02)00032-4. PubMed PMID: 12223190.
39. DiDomenico B, Aramayo R. Pathogenesis In Fungi. *Encyclopedia of Molecular Biology.* 2002.
40. DiDomenico B, Aramayo R. Circadian Rhythms and Clocks in Fungi. *Encyclopedia of Molecular Biology.* 2002.
41. DiDomenico B, Aramayo R. Mating In Fungi. *Encyclopedia of Molecular Biology.* 2002.
42. DiDomenico B, Aramayo R. Filamentous Fungi. *Encyclopedia of Molecular Biology.* 2002(10.1002/047120918X.emb0564).
43. Chang P YJ, Bhatnagar D, Cotty P, Keller N, Aramayo R, Roe B, Kupfer D, Cleveland T. *Aspergillus* EST Databases Provide Insights into Aflatoxin Biosynthesis Research. *Mycopathologia.* 2002;155(1-2).
44. Aramayo R, Bennett J. The importance of fungal genomics. AMER SOC MICROBIOLOGY 1325 MASSACHUSETTS AVENUE, NW, WASHINGTON, DC 20005-4171; 1997. p. 176-7.
45. Peleg Y, Aramayo R, Kang S, Hall JG, Metzenberg RL. NUC-2, a component of the phosphate-regulated signal transduction pathway in *Neurospora crassa*, is an ankyrin repeat protein. *Molecular and General Genetics MGG.* 1996;252(6):709-16.
46. Peleg Y, Aramayo R, Bleeker A, Metzenberg R. A gas emitted by *Neurospora crassa*. *Fungal Genetics Reports.* 1996;43(1):41-2.
47. Peleg Y, Addison R, Aramayo R, Metzenberg RL. Translocation of *Neurospora crassa* Transcription Factor NUC-1 into the Nucleus Is Induced by Phosphorus Limitation. *Fungal Genetics and Biology.* 1996;20(3):185-91.
48. Bruno KS, Aramayo R, Minke PF, Metzenberg RL, Plamann M. Loss of growth polarity and mislocalization of septa in a *Neurospora* mutant altered in the regulatory subunit of cAMP-dependent protein kinase. *EMBO J.* 1996;15(21):5772-82. PubMed PMID: 8918454; PMCID: PMC452324.
49. Aramayo R, Peleg Y, Addison R, Metzenberg R. Asm-1+, a *Neurospora crassa* gene related to transcriptional regulators of fungal development. *Genetics.* 1996;144(3):991-1003. doi: 10.1093/genetics/144.3.991. PubMed PMID: 8913744; PMCID: PMC1207638.
50. Aramayo R, Metzenberg RL. Meiotic transvection in fungi. *Cell.* 1996;86(1):103-13. doi: 10.1016/s0092-8674(00)80081-1. PubMed PMID: 8689677.
51. Aramayo R, Metzenberg R. Gene replacements at the his-3 locus of *Neurospora crassa*. *Fungal Genetics Reports.* 1996;43(5):9-13.
52. Aramayo R. Construction of a Cosmid library of *Neurospora crassa* DNA sequences from a Mating Type a strain. *Catalogue of Strains Supplement of the Fungal Genetics Newsletter.* 1996;43:5.
53. Aramayo R, Timberlake WE. The *Aspergillus nidulans* yA gene is regulated by abaA. *The EMBO Journal.* 1993;12(5):2039-48.
54. Aramayo R, Timberlake WE. Construction of a 24-h developmental cDNA library from *Aspergillus nidulans*. *Fungal Genetics Newsletter.* 1990;40(11):103.
55. Aramayo R, Timberlake WE. Sequence and molecular structure of the *Aspergillus nidulans* yA (laccase I) gene. *Nucleic Acids Res.* 1990;18(11):3415. doi: 10.1093/nar/18.11.3415. PubMed PMID: 2192364; PMCID: PMC330968.
56. Aramayo R, Adams T, Timberlake W. A large cluster of highly expressed genes is dispensable for growth and development in *Aspergillus nidulans*. *Genetics.* 1989;122(1):65-71.
57. de Castro LL, Z. Aramayo, R. Sampaio, M. Gander, E. Evidence for a precursor molecule of Brazil nut 2S seed proteins from biosynthesis and cDNA analysis. *Molecular and General Genetics MGG.* 1987;206(02):338-43.
58. Aramayo R CL. Isolation and characterization of a peptide from *Bacillus subtilis* (Ehrenberg) Cohn, T41, with antibiotic activity against phytopathogenic fungi. *Fitopatologia Brasileira.* 1986;11.

ELECTRONIC PUBLICATIONS

1. Aramayo R. Fasta_GFF3_Equalizer_Bash. In: <https://doi.org/10.5281/zenodo.11396812>, editor. Zenodo. v1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
2. Aramayo R. Assessing the Influence of Sequence Duplications and Genome Annotations on Transcriptional Profiling Measurements. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
3. Aramayo R. Busco_Plot. In: <https://doi.org/10.5281/zenodo.10945685>, editor. Zenodo. v1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
4. Aramayo R. Fasta_Seq_Prepate_Bash. In: <https://zenodo.org/doi/10.5281/zenodo.10905863>, editor. Zenodo. v1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
5. Aramayo R. Fasta_Seq_Plot_Bash. In: <https://zenodo.org/doi/10.5281/zenodo.10892498>, editor. Zenodo. v1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
6. Aramayo R. PepStats_Tables_Python. In: <https://zenodo.org/doi/10.5281/zenodo.10889791>, editor. Zenodo. v1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
7. Aramayo R. PepStats_Tables_Bash. In: <https://zenodo.org/doi/10.5281/zenodo.10888521>, editor. Zenodo. v1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2024.
8. Gallucci JL, Aramayo R. Do Public Databases Need Higher Standards for Next-Generation Data Submissions? In: <https://zenodo.org/doi/10.5281/zenodo.7943044>, editor. Zenodo. DOI: 10.5281/zenodo.7943045 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2023.
9. Aramayo R. Computational_Genomics. In: <https://zenodo.org/doi/10.5281/zenodo.6625427>, editor. Zenodo. v2023-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2023.
10. Aramayo R. Compara_lists. In: <https://zenodo.org/doi/10.5281/zenodo.6582472>, editor. Zenodo. v1.0.1 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.
11. Aramayo R. Bioinformatics_Fall_2021. In: <https://zenodo.org/doi/10.5281/zenodo.6618284>, editor. Zenodo. v2021-1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.
12. Aramayo R. Computational_Genomics. In: <https://doi.org/10.5281/zenodo.6628964>, editor. Zenodo. v2023-1.0.2 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.
13. Aramayo R. Teaching Computational Genomics: A Tale of Tables and Tests. In: <https://zenodo.org/doi/10.5281/zenodo.6634706>, editor. Zenodo. v1 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.
14. Aramayo R. A Re-Analysis of an Existing Drosophila melanogaster Dataset Reveals a New Set of Genes Involved in Post-Mating Response. In: <https://zenodo.org/doi/10.5281/zenodo.6685976>, editor. Zenodo. v2022-09-06 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.
15. Aramayo R. Digital_Biology. In: <https://zenodo.org/doi/10.5281/zenodo.6626235>, editor. Zenodo. v2022-1.0.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.
16. Aramayo R. Myxococcus xanthus DZ2 Genome Assembly. In: <https://zenodo.org/doi/10.5281/zenodo.6359693>, editor. Zenodo. v1.0 ed. Zenodo (CERN Data Centre & Invenio): CERN Data Centre & InvenioRDM; 2022.

FUNDING

1. Aramayo R, Thakar H. Type I - An Exploration on the Authenticity of the Ancient Triactyl Peruvian Mummies Using Radiocarbon Dating and Potential Genetic Characterization. Texas A&M

University: Seed Grant Program for Promoting Research Collaborations (College of Liberal Arts, College of Science, and College of Geosciences); 2022.

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PROFESSIONAL MEMBERSHIPS (PAST AND PRESENT)

1. Member: Genomics Education Alliance
2. Member: Genome in a Bottle Consortium
3. Member: Free Software Foundation
4. Member: Electronic Frontier Foundation
5. Member: AAAs
6. Member: ASHG