EVELIA LORENA COSS NAVARRETE

Postdoctoral fellowship at Laboratorio Internacional de Investigacion Sobre el Genoma Humano (LIIGH)- UNAM | Gene regulation | Evolution | Bioinformatics | Autoimmune diseases | lncRNAs

🎓 EDUCATION

2023 | 2018

PhD, Plant Biotechnology

Centro de Investigacion y de Estudios Avanzados del IPN (Cinvestav), UGA-Langebio

📍 Guanajuato, Mexico

- Dr. Selene Fernandez Valverde
- Identification and characterization of conserved long non-coding RNAs in Brassicaceae.
- Grade: 9.3/10. First person to graduate from the generation.

2018 | 2016

M. Sc., Plant Biotechnology

Centro de Investigacion y de Estudios Avanzados del IPN (Cinvestav), UGA-Langebio

📍 Guanajuato, Mexico

- Dr. Raul Alvarez Venegas and Dr. Stefan de Folter
- Effect of priming activation on bean nodule development and its relationship against Pseudomonas syringae pv. phaseolicola.
- Grade: 9.4/10. Second person to graduate from the generation.

2016 | 2012

B.Sc.,Biotechnology Engineering

Universidad Politecnica de Sinaloa (UPSIN).

📍 Sinaloa, Mexico

- Grade: 9.6/10.

💻 RESEARCH EXPERIENCE

2015

Professional Practices 3 | Undergraduate Thesis Student

Centro de Investigacion y de Estudios Avanzados del IPN (Cinvestav), Irapuato.

📍 Queretaro, Mexico

- Dr. Raul Alvarez Venegas, Dr. Aaron Barraza Celis and Dr. Alejandra Hernandez Barrera
- Histochemical analysis of the effect of bean (Phaseolus vulgaris l.) trithorax group methyltransferases during nodulation.

CONTACT

- ✉ ecoss@liigh.unam.mx
- 🐦 EveliaCoss
- ⬤ EveliaCoss

PROGRAMMING LANGUAGES

Expertise: R and Rstudio, Bash, AWK, markdown/Rmarkdown
Familiarity: Git/Github, python, HTML, CSS

LANGUAGES

Spanish - Native
English - B1 (TOEFL-IBT)

2015 ● **Research Stay 1 (Delfin project)**

Universidad Politecnica de Sinaloa (UPSIN).   📍 Sinaloa, Mexico

· Dr. Jesus Aaron Salazar Leyva
· Characterization of the proteolytic properties of the crude extract of aguama fruit (Bromelia pinguin L).
· Protease analysis by zymography.

2014 ● **Professional Practices 2**

Centro de Investigacion y de Estudios Avanzados del IPN (Cinvestav), Irapuato.

📍 Guanajuato, Mexico

· Dr. Raul Alvarez Venegas and Dr. Aaron Barraza Celis
· Analysis of histone methyltransferases expression in different tissues of bean (Phaseolus vulgaris) plant.

2014 ● **Social Service**

Facultad de Ciencias del Mar (FACIMAR), Universidad Autonoma de Sinaloa (UAS)

📍 Sinaloa, Mexico

· Dr. Miguel Angel Hurtado Oliva and M.C. Idalia Osuna Ruiz
· Standardization of biochemical methods in aquatic organisms.

2014 ● **Research Stay 1 (Delfin project)**

Facultad de Ciencias del Mar (FACIMAR), Universidad Autonoma de Sinaloa (UAS)

📍 Sinaloa, Mexico

· M.C. Idalia Osuna Ruiz.
· Standardization of biochemical methods for microalgae.

2013 ● **Professional Practices 1**

Centro de Investigacion en Alimentacion y Desarrollo (CIAD)

📍 Sinaloa, Mexico

· M.P.A. Noemi Garcia Aguilar and M.C. Gabriela Velasco Blanco
· Cultivation of herbs (Mentha spicata), oregano (Origanum vulgare), radish (Raphanus sativus), green forage and Tilapia (Oreochromis sp) in an aquaponic system.
· http://200.23.35.7/archivos/productos/docencia/practicas/200300421_1.pdf

🖳 OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIPS

2024-present ● **R-Ladies Mexico**

· Organizing committee of the annual meeting of Rladies Mexico
· Web page: https://rladiesmx.netlify.app/

2024-present — ISCB Wikipedia

- Dr. Nelly Selem
- Information: https://www.iscb.org/iscb-wikipedia-wikidata-competition

2024-present — ISCB RSG–Mexico

- Web page: https://rsg-mexico.iscbsc.org/

2024-present — International Society for Computational Biology (ISCB)

- Membership ID: 41317

2024-present — The Carpentries

- Web page: https://carpentries.org/
- Certified Instructor

2024 | 2021 — RNA Society

- https://www.rnasociety.org/

2023-present — Comunidad de Desarrolladores de Software en Bioinformatica (CDSB)

- Github: https://github.com/ComunidadBioInfo/cdsb2023
- Instuctor and helper, https://comunidadbioinfo.github.io/es/authors/eveliacoss/

2023-present — Iberoamerican Society for Bioinformatics (RiaBio)

- Web page: https://www.cyted.org/RIABIO

2023-present — Project JAGUAR

- Web page: https://jaguar.liigh.unam.mx/
- Bioinformatics

2022-present — Registro Mexicano de lupus (LupusRgMX)

- Web page: https://lupusrgmx.liigh.unam.mx/quienes-somos.html
- Founding Member

2022-present ● **R-Ladies, Morelia**

- Github: https://r-ladies-morelia.github.io/, Web page: https://r-ladies-morelia.github.io/project/
- Founding Member

🛡 HONORS

2025 ● **First Prize – CAMDA 2025**
Organized by CAMDA 📍 Liverpool, England

- Presenter: Anton Pashkov. Team: Adriana Haydeé Contreras-Peruyero, Yesenia Villicaña-Molina, Nelly Sélem-Mojica, Francisco Santiago Nieto-de-la-Rosa, Víctor Muñíz-Sánchez, Anton Pashkov, Johanna Atenea Carreón-Baltazar, Luis Raúl Figueroa-Martínez, Evelia Lorena Coss-Navarrete, César Augusto Aguilar-Martínez, Varinia López-Ramírez, Mariana Jaired Ruíz-Amaro, Johanna Castelán Camarillo
- Title: A Hybrid Pipeline for Feature Reduction, and Ordinal Classification to Predict Antimicrobial Resistance from Genetic Profiles
- Announcement of winners: ISMB/ECCB 2025

2025 ● **Second Prize – ISCB Student Wikipedia Competition announcement 2024-25: Non-English Track**
ISMB ECCB 2025 Award 📍 Liverpool, England

- Sebastian Urquiza, Evelia Coss and David Alberto Garcia
- Spanish version: Formato FASTQ. Web page: https://es.wikipedia.org/wiki/Formato_FASTQ
- Announcement of winners: ISMB/ECCB 2025

2024 ● **Best Poster Award (Graduate Category) at the XLVIII Annual Meeting of the Chilean Society for Biochemistry and Molecular Biology**
Organized by Sociedad Bioquimica y Biologia molecular de Chile 📍 Chile

- Presenter: Sebastian Urquiza Zurich. Team: Sebastian Urquiza, Evelia Lorena Coss-Navarrete, Allan Peñaloza-Otarola, Paulo P. Amara, Sergio Lavandero, Vinicius Marcaja-Countino
- Director: Vinicius Marcaja-Countino.
- Transcriptome-guided assembly for coding and non-coding RNAs in cardiac hypertrophy induced by norepinephrine. Book: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.sbbmch.cl/wp-content/uploads/2024/10/LibroResumenSBBMCh2024.pdf

2024-present ● **Posdoctoral Fellowship, CONACYT**

2018-2022 ● **PhD Fellowship, CONACYT**

2016-2018 ● MsC. Fellowship, CONACYT

🖥️ TEACHING EXPERIENCE

2025 ● **Workshop sobre Git / Github 2025**
VieRnes de Bioinformática en el LIIGH-UNAM
📍 Virtual event

· Instructor
· March 7 and 14, 2025
· Github: https://github.com/EveliaCoss/Workshop_GitGithub2025

2025 ● **Introduction to RNA-seq data analysis with R**
Estudios Superiores, Unidad Juriquilla (ENES), UNAM
📍 Queretaro, Mexico

· Main instructor: Dr. Alejandra Medina-Rivera
· Feb 25 and 27, March 4 and 6, 2025, Instructor for RNAseq_classFEB2025
· Bioinformatics and Statistics 2, Genomic Sciences Program. Github:
  https://github.com/EveliaCoss/RNAseq_classFEB2025

2024 ● **Workshop Unix Shell**
Centro de Ciencias Matematicas (CCM), UNAM and LIIGH-UNAM
📍 Virtual event

· Instructor for the Software carpentry
· Dec 10-11, 2024. Course officially registered in The Carpentries. Web page:
  https://iscb-rsg-mexico.github.io/2024-12-10-Workshop-Bash/
· Github of web page: https://github.com/ISCB-RSG-MEXICO/2024-12-10
  -Workshop-Bash. Github tutorial: https://github.com/ISCB-RSG-MEXICO
  /Workshop_Bash2024. Main page: https://iscb-rsg-mexico.github.io
  /Workshop_Bash2024/

2024 ● **Programacion defensiva en ggplot2**
VieRnes de Bioinformática en el LIIGH-UNAM
📍 Virtual event

· Instructor
· Nov 1, 2024
· Github: https://github.com/EveliaCoss/Defensiva_ggplot2024

2024 ● **Tutorial scATACseq**
Universidad CES
📍 Medellin, Colombia

· Invitation by Wellcome Connecting Science
· Workshop Single Cell Genomic Approaches to Study the Immune
  System - Latin America & the Caribbean (9-11 Novembrer 2024) https://
  coursesandconferences.wellcomeconnectingscience.org/event/single
  -cell-genomic-approaches-to-study-the-immune-system-latin-america
  -the-caribbean-20241109/
· Github: https://github.com/WCSCourses/Single_Cell_Genomics
  _ImmuneSys_24; Github: https://github.com/EveliaCoss/Tutorial_ISCB
  _LATAM_scATACseq

2024

Workshop Bash 2024
ENES, Juriquilla   📍 Queretaro, Mexico

· Invitation by Dr. Miriam Bravo
· Web page: https://eveliacoss.github.io/Workshop_Bash2024/

2024

Workshop sobre git/Github 2024
ENES, Juriquilla   📍 Queretaro, Mexico

· Invitation by Dr. Jair Santiago Garcia
· Web page: https://eveliacoss.github.io/Workshop_GitGithub2024/

2024

Crea tu página web en R
📍 Virtual event

· Instructor
· Github:https://github.com/EveliaCoss/make_yourWebpage

2024

Viernes de Bioinformatica (Bioinformatics Friday) – second part
Laboratorio Internacional de Investigacion sobre el Genoma Humano (LIIGH) UNAM

📍 Queretaro, Mexico

· Course coordinator: Evelia Coss
· Instructor and coordinator for ViernesBioinfo2024
· Github: https://github.com/EveliaCoss/ViernesBioinfo2024_parte2

2024

Viernes de Bioinformatica (Bioinformatics Friday)
Laboratorio Internacional de Investigacion sobre el Genoma Humano (LIIGH) UNAM

📍 Queretaro, Mexico

· Course coordinator: Evelia Coss
· Instructor and coordinator for ViernesBioinfo2024
· Github: https://github.com/EveliaCoss/ViernesBioinfo2024, Web page: https://viernesbioinformatica.github.io/playlist/

2024

Introduction to RNA-seq data analysis with R
Estudios Superiores, Unidad Juriquilla (ENES), UNAM

📍 Queretaro, Mexico

· Main instructor: Dr. Alejandra Medina-Rivera
· Instructor for RNAseq_classFEB2024
· Bioinformatics and Statistics 2, Genomic Sciences Program. Github: https://github.com/EveliaCoss/RNAseq_classFEB2023.git

2023

CDSB 2023 – Quality control in scRNA-Seq
📍 Virtual event

· Helper
· Instructor for CDSB2023
· Comunidad de Desarrolladores de Software en Bioinformatica (CDSB), Nodo Nacional de Bioinformatica, Github: https://github.com/ComunidadBioInfo/cdsb2023.git

2023 ● **Make your CV in R**

Centro de Ciencias Matematicas (CCM), UNAM
📍 Virtual event

· Instructor for Make_yourCV
· R-ladies Morelia, Github: https://github.com/EveliaCoss/Make_yourCV

2023 ● **Workshop: Analysis of RNA-Seq Data**

Laboratorio Internacional de Investigacion sobre el Genoma Humano
(LIIGH) UNAM
📍 Virtual event

· Course coordinator: Evelia Coss
· Instructor and coordinator for RNASeq_Workshop_Nov2023
· Github: https://github.com/EveliaCoss/RNASeq_Workshop_Nov2023

2023 ● **Workshop: Database analysis in the medical area. Creating your analysis flows with R/Bioconductor.**

Centro Universitario de Ciencias de la Saludo (CUCS) de la
Universidad de Guadalajara (UdG)
📍 Guadalajara, Mexico

· Instructor for Curso_ProgramacionR_CUCS_Oct2023
· PhD in Human Genetics, Github: https://github.com/EveliaCoss/Curso
_ProgramacionR_CUCS_Oct2023

2023 ● **Viernes de Bioinformatica (Bioinformatics Friday)**

Laboratorio Internacional de Investigacion sobre el Genoma Humano
(LIIGH) UNAM
📍 Queretaro, Mexico

· Course coordinator: Evelia Coss
· Instructor and coordinator for ViernesBioinfo2023
· Github: https://github.com/EveliaCoss/ViernesBioinfo2023

2023 ● **Web application development in R (shinyapp)**

Estudios Superiores, Unidad Juriquilla (ENES), UNAM
📍 Queretaro, Mexico

· Instructor and coordinator for TuneameShinyApp_ClassOct2023
· Github: https://github.com/EveliaCoss/TuneameShinyApp_ClassOct2023

2023 ● **Introduction to RNA-seq data analysis with R**

Estudios Superiores, Unidad Juriquilla (ENES), UNAM
📍 Queretaro, Mexico

· Main instructor: Dr. Alejandra Medina-Rivera
· Instructor for RNAseq_classFEB2023
· Bioinformatics and Statistics 2, Genomic Sciences Program, Github:
https://github.com/EveliaCoss/RNAseq_classFEB2023.git

2023

Data analysis with R

Centro de Ciencias Matematicas (CCM), UNAM   📍 Virtual event

· Instructor for Manipulacion_de_datos
· R-ladies Morelia, Github: https://github.com/R-Ladies-Morelia/Manipulacion_de_datos.git

2022

Helper in R Workshop and Git/Github

Centro de Ciencias Matematicas (CCM), UNAM   📍 Virtual event

· Main instructor: Dr. Abraham Avelar Rivas, M.Sc. Diego Garfias Gallegos and M.Sc. Claudia Zirion Martinez
· Helper for Software Carpentry
· Software Carpentry, Web page: https://czirion.github.io/2022-06-11-R-UNAM/

2022

Rmarkdown Introduction

Centro de Ciencias Matematicas (CCM), UNAM   📍 Virtual event

· Instructor for Rmarkdown
· R-ladies Morelia, Github: https://github.com/EveliaCoss/Rladies-Morelia/tree/f2781e5484a665e750fc482484a771dfff28612e/Rmarkdown

2022

Data analysis and graphs in R

Centro de Ciencias Matematicas (CCM), UNAM   📍 Virtual event

· Instructor for Marvel_vs_DCcomics
· R-ladies Morelia, Github: https://github.com/EveliaCoss/Rladies-Morelia/tree/f2781e5484a665e750fc482484a771dfff28612e/Marvel_vs_DCcomics

📈 DATA SCIENCE WRITING

2024

AB1113 ALLELE SPECIFIC GENE EXPRESSION DURING TOLERANCE INDUCTION ON DENDRITIC CELLS FROM MEXICAN WOMEN WITH SYSTEMIC LUPUS ERYTHEMATOSUS

· A. L. Hernández-Ledesma, S. Salazar-Magaña, E. L. Coss-Navarrete, K. J. Nuñez-Reza, L. Tinajero Nieto, A. Peña-Ayala, E. Torres-Valdez, G. Felix Rodríguez, G. Frontana-Vázquez, F. Rosetti, S. L. Fernández-Valverde, M. Gutierrez Arcelus, D. Alpizar-Rodriguez, A. Medina-Rivera
· https://ard.bmj.com/content/83/Suppl_1/1887

2022 ● **Plants & Python: A series of lessons in coding, plant biology, computation, and bioinformatics**

· VanBuren R , Rougon-Cardoso A, Amezquita EJ, Coss-Navarrete EL, Espinosa-Jaime A, Gonzalez-Iturbe OA, Luckie-Duque AC, Mendoza-Galindo E, Pardo J, Rodriguez-Guerrero G, Rosiles-Loeza PY, Vasquez-Cruz M, Fernandez-Valverde SL, Hernandez-Hernandez T, Palande S, and Chitwood. DH. Plants & Python: A series of lessons in coding, plant biology, computation, and bioinformatics, (2022). The Plant Cell, Volume 34, Issue 7, July 2022, Page e1, https://doi.org/10.1093/plcell/koac187
· https://drive.google.com/file/d/1Na0z9k4Igb6_N3u_pJD9L1nrhxhC6qLG /view?usp=sharing

📖 PUBLICATIONS

2022 ● **Transcriptome-guided annotation and functional classification of long non-coding RNAs in Arabidopsis thaliana**

· Corona-Gomez, J.A., Coss-Navarrete, E.L., Garcia-Lopez, I.J. et al. Transcriptome-guided annotation and functional classification of long non-coding RNAs in Arabidopsis thaliana. Sci Rep 12, 14063 (2022). https:// doi.org/10.1038/s41598-022-18254-0
· https://drive.google.com/file/d/14eieFhoIzolNUvb2cXCgQZXutz2_LCgQ /view?usp=sharing

2020 ● **Capter 6- Induction of plant resistance to biotic stress by priming with B-aminobutyric acid (BABA) and its effect on nitrogen-fixing nodule development**

· Coss-Navarrete EL, Diaz-Valle A, Alvarez-Venegas R. Chapter 6 - Induction of plant resistance to biotic stress by priming with B-aminobutyric acid (BABA) and its effect on nitrogen-fixing nodule development, Editor(s): Mohammad Anwar Hossain, Fulai Liu, David J. Burritt, Masayuki Fujita, Bingru Huang, Priming-Mediated Stress and Cross-Stress Tolerance in Crop Plants, Academic Press, 2020, Pages 101-114, ISBN 9780128178928, https://doi.org/10.1016/B978-0-12-817892-8.00006-4.
· https://drive.google.com/file/d/1dOIM_RAvX1uM_1mIesK2-GgupOo02xz2 /view?usp=sharing

2018 ● **Down-regulation of PvTRX1h increases nodule number and affects auxin, starch, and metabolic fingerprints in the common bean (Phaseolus vulgaris L.)**

· Barraza A, Coss-Navarrete EL, Vizuet-de-Rueda JC, Martinez-Aguilar K, Hernandez-Chavez JL, Ordaz-Ortiz JJ, Winkler R, Tiessen A, Alvarez-Venegas R. Down-regulation of PvTRX1h increases nodule number and affects auxin, starch, and metabolic fingerprints in the common bean (Phaseolus vulgaris L.) (2018). Plant Science, Volume 274,Pages 45-58, ISSN 0168-9452, https://doi.org/10.1016/j.plantsci.2018.05.006
· https://drive.google.com/file/d/1XGfxNGEu-G7_oOsaCunYwY1x38uEU1Bc /view?usp=sharing

2017 ● CARACTERIZACION PARCIAL DE LA ACTIVIDAD COAGULANTE Y CASEINOLITICA DE LAS PROTEASAS DEL FRUTO DE AGUAMA (Bromelia pinguin L.)

· Moreno-Henandez, J. M., Hernandez-Mancillas, X. D., Coss Navarrete, E. L., Banuelos-Perez, M. de J., Salazar-Leyva, J. A., Osuna-Ruiz, I., Rodriguez-Tirado, V. A., & Mazorra-Manzano, M. Angel. (2017). CARACTERIZACION PARCIAL DE LA ACTIVIDAD COAGULANTE Y CASEINOLITICA DE LAS PROTEASAS DEL FRUTO DE AGUAMA (Bromelia pinguin L.). Biotecnia, 19(2), 19-24. https://doi.org/10.18633/biotecnia.v19i2.380
· https://drive.google.com/file/d/1Mb4WMwiDlv7ud4EubcjhhndLDueWtX8m/view?usp=sharing

2016 ● Partial Characterization of the Proteolytic Properties of an Enzymatic Extract From Aguama Bromelia pinguin L. Fruit Grown in Mexico

· Moreno-Hernandez, JM, Hernandez-Mancillas, XD, Coss-Navarrete, EL, Mazorra-Manzano, MA, Osuna-Ruiz I, Rodriguez-Tirado, VA, Salazar Leyva JA. Partial Characterization of the Proteolytic Properties of an Enzymatic Extract From Aguama Bromelia pinguin L. Fruit Grown in Mexico. Appl Biochem Biotechnol 182, 181-196 (2017). https://doi.org/10.1007/s12010-016-2319-x
· https://drive.google.com/file/d/1G12ZL4t2ZN0LxIQtbjMnJTFhQJBPYikQ/view?usp=sharing

📠 TALKS AND POSTERS

2025 ● PANLAR 2025

Poster   📍 Ciudad de Mexico, Mexico

· Presenter: Evelia Coss
· April 23-26, 2025. Poster only
· https://docs.google.com/presentation/d/1IF-BStJJIv05HpcKsl0nfW5jslnQ1SgV/edit?usp=sharing&ouid=115061201453977266962&rtpof=true&sd=true

2024 ● XLVIII Anual Meeting, Chilean Society for Biochemistry and Molecular Biology

Poster

· Presenter: Sebastian Urquiza Zurich.
· Co-authors: Sebastian Urquiza Zurich, Evelia Coss-Navarrete, Peñaloza-Otárola, Paulo P. Amaral3, Sergio Lavandero, Vinicius Marcaja-Countino
· Transcriptome-guided assembly for coding and non-coding RNAs in cardiac hypertrophy induced by norepinephrine. Book: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.sbbmch.cl/wp-content/uploads/2024/10/LibroResumenSBBMCh2024.pdf

2024 ● ISCB–Latin America SolBio CCBCOL – International Conference on Bioinformatics

Poster ⚲ Medellin, Colombia

- Presenter: Evelia Coss
- Nov 12-15, 2024 On-site event, Colombia Poster only
- https://docs.google.com/presentation/d/12Xn
  _vJ0Jx5HMOLROxIbwXGnEcdmYVcfO/edit?
  usp=sharing&ouid=115061201453977266962&rtpof=true&sd=true

2024 ● Intelligent Systems for Molecular Biology (ISMB) congress

Poster ⚲ Montreal, Canada

- Presenter: Evelia Coss
- July 12-16, 2024
- https://drive.google.com/file/d/1MzG29tUEpcxPM16idFTgS7pZZWDj3tD0
  /view?usp=sharing

2024 ● Días académicos en el LIIGH – Internal Seminar

Talk ⚲ Juriquilla, Queretaro

- Presenter: Evelia Coss
- Project JAGUAR: mapping immune cell diversity across Latin America
- Video: https://www.youtube.com/watch?v=uI2Y7kOcJaA&ab
  _channel=LIIGH_UNAM

2023 ● Chan Zuckerberg Science Initiative (CZI) – anual meeting

Talk ⚲ Carlsbad, California, USA

- Presenter: Evelia Coss
- Project JAGUAR: mapping immune cell diversity across Latin America
- Ancestry Networks for the Human Cell Atlas

2022 ● Sociedad Mexicana de Bioqumica (SMB) X

Poster ⚲ Yucatan, Mexico

- Co-authors: M.C. Evelia Lorena Coss Navarrete, Dr. Jose Antonio Corona-Gomez, Dr. Laurence Hurst, Dr. Stewart Gillmor, Dr. Katarzyna Oktaba, and Dr. Selene L. Fernandez-Valverde
- Conservation analysis of sequence-divergent lincRNAs in Brassicaceae

2021 ● FASEB 2021: The Mechanisms of Plany Development

Poster ⚲ Virtual event

- Co-authors: M.C. Evelia Lorena Coss Navarrete, Dr. Jose Antonio Corona-Gomez, Dr. Laurence Hurst, Dr. Stewart Gillmor, Dr. Katarzyna Oktaba, and Dr. Selene L. Fernandez-Valverde
- Transcriptomic-informed annotation and functional classification of long non-coding RNAs in Arabidopsis thaliana

2021 ● **EMBL Symposium 2021: The Non-Coding Genome**
Poster 📍 Virtual event

- Co-authors: M.C. Evelia Lorena Coss Navarrete, Dr. Jose Antonio Corona-Gomez, Dr. Laurence Hurst, Dr. Stewart Gillmor, Dr. Katarzyna Oktaba, and Dr. Selene L. Fernandez-Valverde
- Transcriptomic-informed annotation and functional classification of long non-coding RNAs in Arabidopsis thaliana

2015 ● **2nd Interinstitutional Congress of Young Researchers**
Talk 📍 Chihuahua, Mexico

- Co-authors: Coss Navarrete EL, Hernandez-Mancillas, XD, Salazar Leyva, JA.
- Biochemical characterization of a crude protease extract obtained from the wild plant aguama (Bromelia pinguin) native to southern Sinaloa.
- Biotechnology and agricultural science

2014 ● **Delfin, Programa Interinstitucional para el fortalecimiento de la investigacion y el posgrado del pacifico**
Talk 📍 Nayarit, Mexico

- Co-authors: Coss Navarrete EL, Osuna-Ruiz I
- Standardization of biochemical methods in aquatic organisms.

🎓 COURSES

2025 ● **Hackathon CAMDA 2025**
Assitant participant 📍 Morelia, Mexico

- June 9-13, 2025. Organizer: ISCB, RSG-Mexico and CCM-UNAM
- Research focus: Gene discovery in bacterial resistance pathways
- Title: A Hybrid Pipeline for Feature Reduction, and Ordinal Classification to Predict Antimicrobial Resistance from Genetic Profiles

2025 ● **CABANANet: Train the Trainers**
Instructor and helper 📍 Queretaro, Mexico

- April 29-30, 2025
- Github: https://github.com/EveliaCoss/CABANAnet_TrainTrainers2025

2025 ● **RLadies-Morelia: Reprohack 2025**
Instructor and helper 📍 Queretaro, Mexico

- April 28, 2025
- Github: https://github.com/ISCB-RSG-MEXICO/Reprohack2025_RLadiesMorelia_RSGMexico

2025 • **Curso gratis de Mineria Genomica**
Instructor and helper   📍 Queretaro, Mexico

• April 29-30, 2025
• Github: https://github.com/ISCB-RSG-MEXICO/2025-04-29
  -MineriaGenomica

2024 • **Analyzing PBMCs Single Cell ATAC- Seq and Multiome data: Theory and practice**
Instructor and helper   📍 Medellin, Colombia

• November 9-11, 2024 On-site event, Colombia Organizer: Wellcome
  Connecting Science Location: to be confirmed Instructors: Evelia Coss
  and Diego Ramirez
• Github: https://github.com/EveliaCoss/Tutorial_ISCB_LATAM_scATACseq

2024 • **Workshop CDSB 2024: Desarrollo de paqueterías de R/Bioconductor**
helper   📍 virtual event

• October 28-31, 2024
• Github: https://github.com/ComunidadBioInfo/cdsb2024

2024 • **ISCB- Youth Bioinformatics Symposium**
                                                   📍 Montreal, Canada

• July 12, 2024 On-site event, Montreal, Canada Course related with:
  Introduction to Python in Science and Biology.

2024 • **Tutorial VT4: Computational Approaches for identifying context-specific transcription factors using single-cell multi-omics datasets**
                                                   📍 Virtual event

• July 9, 2024 Github: https://github.com/osmanbeyoglulab/Tutorials-on
  -ISMB-2024

2024 • **Scientific writing course**
                                                   📍 Virtual event

• June 19, 2024, Instructor: Ian Scott Kinney

2024 • **Hackathon 2024: R-Ladies Morelia and R-Ladies Querétaro meeting**
Instructor and helper   📍 Morelia, Mexico

• May 31 and June 1, 2024 Hackaton 2024: https://github.com/R-Ladies
  -Morelia/CursosRladiesMorelia_RladiesQueretaro_2024/tree/main
  /Hackaton2024 Best practices in R (Instructor: Evelia Coss): https://github
  .com/EveliaCoss/Buenaspracticas_R_Mayo2024

2024 • **Best practices in R**
Instructor
📍 Juriquilla, Queretaro

· Instructor: Evelia Coss
· June 19, 2024
· Web page: https://github.com/EveliaCoss/Buenaspracticas_R_Mayo2024

2024 • **R-Ladies, Morelia courses**
📍 Virtual event

· Feb 29, April 25, 2024, Web page: https://www.meetup.com/es-ES/rladies-morelia/

2024 • **Global Bioinformatics Education Summit 2024 (GBES)**
📍 Virtual event

· Document

2024 • **Python Programming and Graphing**
Helper
📍 Puebla, Mexico

· Instructors: Shaday Guerrero, Gabriel Alarcón Carranza. Helpers: Haydee Peruyero, Heladia Salgado, Evelia Coss
· Web page: https://helysalgado.github.io/2024-05-27-csvconf/
· The Carpentries

2024 • **Data Analysis - Python, Bash and GIT**
Helper
📍 Morelia, Mexico

· Instructors: Haydee Peruyero, Shaday Guerrero, Miguel Angel Magana
· Web page: https://miguel-mx.github.io/2024-01-24-ccm-unam-swc/
· The Carpentries

2023 • **Instructor training with The Carpentries**
📍 Virtual event

· The Carpentries

2023 • **CDSB 2023: Creando paquetes de R/Bioconductor para analisis transcriptomico de celula unica**
Instructor and helper
📍 Virtual event

· Main instructor: Dr. Joselyn Cristina Chavez Fuentes, Dr. Leonardo Collado-Torres, Dr. Alejandra Medina Rivera, Dra. Evelia Lorena Coss Navarrete, Dr. Laura Gomez Romero, Dr. Yalbi Balderas Martinez, Dr. Mirna Vazquez Rosas Landa, M.C. Jose Antonio Ovando Ricardez, M.C. Erick Cuevas Fernandez and Andres Arredondo Cruz
· CDSB2023, DE in scRNA-SEq and R/Bioconductor packages
· Comunidad de Desarrolladores de Software en Bioinformática (CDSB), Nodo Nacional de Bioinformatica

2022 — Analysis of biological and biomedical transcriptomic data using Artificial Intelligence (AI) and Machine Learning methods (ML) methods with R

UNAM 📍 Queretaro, Mexico

· Main instructor: Dr. Javier De Las Rivas (CSIC-USAL-IBSAL, Spain), Dr. Maribel Hernandez Rosales (CINVESTAV, Mexico), Dr. Enrique De Las Rosa (CSIC-USAL-IBSAL, Spain), and Dr. Flavio Spetale (CIFASIS-CONICET-UNR, Argentina).
· ISCB-LA SoIBio BioNetMX Symposium 2022
· RiaBio 2022

2022 — The art and method of writing a Scientific Manuscript

📍 Virtual event

· Main instructor: Dr. Susan Marriott
· BioScience Writers

2021 — Genetic variants search

📍 Virtual event

· Main instructor: Dr. Victor Flores
· ATGenomics

2021 — Network analysis using igraph for R: a primer

📍 Virtual event

· Main instructor: Dr. Guillermo de Anda Jauregui
· 2nd Workshop in advanced Bioinformatics

2021 — Co-expression networks

📍 Virtual event

· Main instructor: Dr. Katja Nowick
· 2nd Workshop in advanced Bioinformatics

2021 — Network medicine

📍 Virtual event

· Main instructor: Dr. Deisy Gypsi
· 2nd Workshop in advanced Bioinformatics

2019 — CABANA workshop: Introduction to R and Bioconductor for genomic analyses

Centro de Investigacion y de Estudios Avanzados del IPN (Cinvestav), UGA-Langebio

📍 Guanajuato, Mexico

· Main instructor: Dr. Cei Abreu Goodger and Dr. Benilton Carvalho
· CABANA

2019 ● **Theoretical and Practical HiC Workshop: Wet-Lab and Bioinformatics**
Centro de Investigacion y de Estudios Avanzados del IPN (Cinvestav),
UGA-Langebio

📍 Guanajuato, Mexico

· Main instructor: Dr. Selene Fernandez-Valverde, Dr. Francisco Perez.
  America Ramirez and Emilio Sotelo
· The Royal Society

2012 ● **Mantenimiento correctivo de Computadoras**
Universidad de Occidente Unidad Mazatlan

📍 Sinaloa, Mexico

· Main instructor: M.C. Raymundo Magana

⚙️ SCIENCE COMMUNICATION

2025 ● **Conversatorio Mujeres en la bioinfomatica**
Talk

📍 Hibrid event

· UNAM celebra a Las Bioinformáticas
· https://www.lajornadamorelos.mx/sociedad/unam-celebra-a-las
  -bioinformaticas/

2025 ● **Comunidades bioinformáticas sin fronteras**
Paper

· Co-authors: Evelia Lorena Coss-Navarrete, Erika Viridiana Cruz Bonilla y
  Nelly Sélem Mojica
· Biotecnología en Movimiento, Año 10. Número 40, cap 6 (31 marzo 2025)
· https://biotecmov.ibt.unam.mx/numeros/40/

2024 ● **Preguntale a una cientifica**
Talk

📍 Queretaro, Mexico

· Talk
· Comision Interna para la igualdad de Genero (CInIG)

2023 ● **Los Neutrofilos, chile del que pica o chile del que no pica?**
Paper

· Co-authors: Karr de Leon S, Coss-Navarrete EL, Brunck ME.
· El linfocito - numero 3 (Diciembre 2023)
· link : https://sociedadmexicanadeinmunologia.org/revista-edicion-3/

2023 ● **Project JAGUAR: Mapeo de la diversidad de celulas inmunitarias en
America Latina**
Talk

📍 Virtual event

· Ciclo de "Bases y Bytes 2023: Platicas de Bioinformatica"
· Universidad Politecnica de Sinaloa (UPSIN).

2022 ● **Conservacion de lincRNAs en Brassicaceaes**

Talk   📍 Virtual event

· Ciclo de "Bases y Bytes: Platicas de Bioinformatica"
· Universidad Politecnica de Sinaloa (UPSIN).

2021 ● **PODCAST animalitos & plantitas: EP01 El cafe mas caro del mundo con Evelia Coss**

Talk   📍 Podcast

· The Biologist Apprentice
· Video: https://www.youtube.com/watch?v=6kz_biv6PNs&t=13s

2021 ● **Tercer mesa redonda "Trayectorias academicas"**

Talk   📍 Virtual event

· El Rincon de la Ciencia
· Video: https://www.facebook.com/elrincondelacienciasfr/videos
/296828961881946/

2019 ● **Identificacion y caracterizacion de ARNs largos no codificantes conservados en Brasicaceas**

Talk   📍 Guanajuato, Mexico

· Semana Tecnológica
· Tecnológico Nacional de Mexico, Instituto Tecnologico Superior de Purisima del Rincon