

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)

Made with the R package
[pagedown](#).

The source code is available at
[EveliaCoss/CV](#) and is powered by
[nstrayer/cv](#).

Last updated on 2024-11-04.

- 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.



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



The Carpentries

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

2023-present



Comunidad de Desarrolladores de Software en Bioinformatica (CDSB)

- Github: <https://github.com/ComunidadBioInfo/cdsb2023>
- Instuctor and helper

2023-present



Iberoamerican Society for Bioinformatics (RiaBio)

- Web page: <https://www.cytel.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

2024-present



Posdoctoral Fellowship, CONACYT

2018-
2022

- **PhD Fellowship, CONACYT**

2016-
2018

- **MsC. Fellowship, CONACYT**



TEACHING EXPERIENCE

2024

- **Tutorial scATACseq**
Universidad CES 📍 Medellín, Colombia
 - Workshop Single Cell Genomic Approaches to Study the Immune System - Latin America & the Caribbean (9-11 November 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
 - 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
- 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 Salud (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

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/1Na0z9k4lgb6_N3u_pJD9L1nrhxC6qLG/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/14eieFholzoINUvb2cXCgQZXutz2_LCgQ/view?usp=sharing

2020

- **Chapter 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_1mlesK2-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/1G12ZL4t2ZNOLxIQtbjMnJTFhQJBPYikQ/view?usp=sharing>



TALKS AND POSTERS

- 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

- 2024 ● **Intelligent Systems for Molecular Biology (ISMB) congress**
Poster  Montreal, Canada
- Presenter: Evelia Coss
 - <https://drive.google.com/file/d/1MzG29tUEpcxPM16idFTgS7pZZWDj3tD0/view?usp=sharing>
- 2024 ● **Días académicos en el LIIGH - Internal Seminar**
Talk  Juriquilla, Queretaro
- Presenter: Evelia Coss
 - Video: https://www.youtube.com/watch?v=ul2Y7kOcJaA&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 Bioquímica (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 Planly 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

2024

- **Analyzing PBMCs Single Cell ATAC- Seq and Multiome data: Theory and practice (coming soon)**
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

- **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**  Virtual event
- Instructor and helper
- 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 SolBio 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. Víctor 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 Gysi
 - 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

- 2024 ● **Preguntale a una científica**
 Talk  Queretaro, Mexico
- Talk
 - Comision Interna para la igualdad de Genero (CInIG)
- 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).
- 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
 - link : <https://sociedadmexicanadeinmunologia.org/revista-edicion-3/>
- 2022 ● **Conservacion de lincRNAs en Brassicaceae**
 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 Tecnologica

• Tecnologico Nacional de Mexico, Instituto Tecnologico Superior de Purisima del Rincon