

Amelie Segarra

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Personal statement

My research focuses on understanding how aquatic organisms contend with anthropogenic and environmental stressors, including contaminants, pathogens and their interactions with climate change. I use aquatic species as research models, such as zebrafish (*Danio rerio*) for environmental toxicology purposes, as well as salmon (*Oncorhynchus tshawytscha*) and non-model species of conservation concern for ecological toxicology. My research is integrative, using multidisciplinary approaches including molecular biology, immunology, behavior, and physiology, combining both field- and laboratory-based studies.

Education

2014 Ph.D. in biology health, Southern Brittany University, Vannes, France

2010 Master's in biotechnology, Sup'Biotech Paris, Villejuif, France

2008 Bachelor's in biotechnology, Sup'Biotech Paris, Villejuif, France

Professional experience

July 2023 - Current	Assistant adj. Professor, University of California, Dept. of Anatomy, Physiology and Cell Biology, Davis, CA, USA
Jan. 2022 - June 2023	Assistant Project scientist, University of California, Dept. of Anatomy, Physiology and Cell Biology, Davis, CA, USA
Mar. 2019 - Dec. 2021	Post-doctoral Research Associate, University of California, Dept. of Anatomy, Physiology and Cell Biology, Davis, CA, USA
Sept. 2018 - Feb. 2019	Head of R&D AdiaGene, Zoo-pôle Ploufragan, France
Sept. 2017 - Sept. 2018	Post-doctoral Fellow LabexMer, European Institute for Marine Studies, Western Brittany University, Brest, France
Feb. 2015 - July 2016	Post-doctoral Research Associate, School of Marine and Atmospheric Sciences Stony Brook University, New York, USA

Grants

Active Grants

2024-2026	Principal Investigator. Can the Sacramento Deep-Water Shipping Channel be a source of nutrients to Delta Smelt and their prey or will contaminants spoil the party? A contaminant prospective. Co-PIs: Connon (UCD), Lydy (SIU). Sponsor: California Department of Fish and Wildlife: \$749,984.
2023 -2026	Co-Principal Investigator: Reconnecting Winter Run to their Ancestral Waters: monitoring reintroduction success on the McCloud. PI: Jeffres (UCD). Sponsor: California Department of Fish and Wildlife \$1,754,496.
2023-2025	Co-Principal Investigator. Applying a response spectrum model to assess spatial and temporal differences in effects of pesticide mixtures on juvenile Chinook Salmon in the Delta. PI. Connon, Co-PIs: Segarra (UCD), Lydy & Whitledge (SIU). Sponsor: State Water Contractors: \$525,720.

2023-2025	Principal Investigator. Post-drought wildfire retardant first flushes on early life stage Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) and Rainbow Trout (<i>O. mykiss</i>). Co-PIs: Connon (UCD). Sponsor: Delta Stewardship Council: \$231,235.
2022-2025	Co-Principal Investigator. Whole animal New Approach Methodologies for predicting developmental effects of air pollutant mixtures. PI. Helen Poynton - University of Massachusetts, Boston (Principal Investigator), Sponsor: U.S. Environment Protection Agency-STAR; \$750,000.
2022-2025	Principal Investigator: When the rubber meets the River: an assessment of 6PPD-quinone toxicity on Delta species of conservation concern; Co-PIs: Connon (UCD), Mauduit (UCD), Fangue (UCD), Young (UCD). Sponsor: California Department of Fish and Wildlife; \$547,023.60.
2021-2024	Co-Principal Investigator: Development of a response spectrum framework to assess the effects of pesticide residues in Central Valley salmon. PI. Richard Connon (UCD); Sponsor: California Department of Fish and Wildlife; \$756,572.
Past Grants 2022-2025	Principal Investigator: When the rubber meets the river: an assessment of 6PPD-quinone toxicity on Delta species of conservation concern; Co-PIs: Connon (UCD), Mauduit (UCD), Fangue (UCD), Young (UCD). Sponsor: California Department of Fish and Wildlife; \$547,023.60.
2021-2024	Co-Principal Investigator: Development of a response spectrum framework to assess the effects of pesticide residues in Central Valley salmon. PI. Richard Connon (UCD); Sponsor: California Department of Fish and Wildlife; \$756,572.

Honors and awards

2020:	Travel Grant. University of California Davis Postdoctoral Scholars Association (PSA); \$400.
2017-2019:	LabexMer Post-doc fellowship “Best research proposal in marine sciences”; €114,328.
2014:	Ph.D. in biology health with Honors, Southern Brittany University, Vannes, France

Patent

Identification of the microvar strain of ostreid herpesvirus 1 (OsHV-1); WO2011107850 (A1) — 2011-09-09

Professional Service

Scientific Peer Review:

August 2024 Proposal to add para-phenylenediamine (PPD) derivatives to the Candidate Chemicals List, California Department of Toxic Substances Control, CalEPA.

Grant reviews:

2024 NorCal SETAC fellowship review (4)
 2024 Robert Emrie Smith Memorial Research Fellowship APC (4)
 2024 Ralph L. Kitchell Memorial Fellowship APC (2)
 2023 Robert Emrie Smith Memorial Research Fellowship APC (4)
 2023 Ralph L. Kitchell Memorial Fellowship APC (2)

Review Articles from 2020:

2024 Diseases of Aquatic Organisms (1)
 2023 Aquaculture and Fisheries (1), Aquatic toxicology (1)
 2021 Journal of Invertebrate Pathology (2)

Editorial and Advisory Board

2023-Current Review Editor for Parasite Immunology, Frontier in Immunology
2022-2023 Lead guest Editor of *Biology*, "Toxicology" section, Special Issue "Impact of Natural and Anthropogenic Pollution on Aquatic Ecosystems."

Leader of Work-In Progress Seminar series, UC Davis

2023-Current Department of Anatomy, Physiology and Cell Biology, UC Davis.

Committees

2025 - Current Agricultural and Environmental Admissions committee, UC Davis. Reviewed 18 graduate applications for admission in 2025.
2024 - Current Co-Chair of the Contaminants Project Work Team (PWT) for the Interagency Ecological Program (IEP), California.
2023-Current Academic Federation peer review Committee Member - APC and VMB departments at the School of Veterinary Medicine (SVM); UC Davis
2023-Current Faculty Member in the Agricultural and Environmental Chemistry Graduate Group, UC Davis
2023-Current Member, Interagency Ecological Program, California. Project Work Team: Contaminants Advisory Task force.
2023-Current Member, Interagency Ecological Program, California. Project Work Team: Genetics Advisory Task force.
2021-Current Coastal and Marine Sciences Institute (CMSI), UC Davis – Affiliate.

Professional organization

2024-2025 Animal Behavior Society (ABS) - Member
2022-Current NorCal SETAC - Board of Directors and member
2019-Current Society of Environmental Toxicology and Chemistry (SETAC) - Member

Teaching

Ph.D Committee

2023-Current Irina Polunina, Ph.D. student, Marine Science and Technology, University of Massachusetts, Boston USA

Master Committee

2023-2024 Nicholas Hudson, Master student, Animal Biology Graduate Group, University of California, Davis USA - Member

Advising/Mentoring

Post-doctoral researcher:

2024-Current Zoha Siddiqua, UC Davis, USA
2023-Current Louise Cominassi, UC Davis, USA
2018-2019 Myrina Boulais, Western Brittany University, Brest, France

Graduate research supervising:

Spring 2025- Summer 2025 Maxime Debources, Master's student from Namur, Belgium visiting UC Davis.
2023-Current Jackelyn Lang, Ph.D. student, Agricultural and Environmental Chemistry, University of California Davis (co-Mentoring with Dr. J. Gjeltrema)
2023-2024 Cassandra Noami Lievin, Master's student, Namur, Belgium visiting UC Davis.
Spring 2012-Summer 2012 Florian Mauduit, Master's student, Ifremer, France

Undergraduate research supervising:

2023-2024 Alden Nasser Oakes LeRoy, Practicum, Animal Biology (Spring Quarter ABI 189 006), UCD
Erin Kathleen Lamphear, Practicum, Animal Biology (Spring Quarter ABI 189 006), UCD

Breanna Carmona, Practicum, Animal Biology, UC Davis, USA
 Kyra Eulo, Fish Toxicology, UCD
 Rheanna Shaunt'E Adams, Practicum Fish Toxicology, UCD
 Dylan Lin, Student Assistant, UC Davis, USA
 Alice Ardon, Student Assistant, UC Davis, USA
 Sara Rozmaryn, Student Assistant, UC Davis
 Sheareen Khasawneh, Volunteer, UCD
 John Isla, Volunteer, UCD
 Serina Kung, Volunteer, UCD
 Skyy Latchford, Volunteer, UCD

2022-2023 Celia Gaxiola, Practicum, Aquatic Toxicology, UC Davis, USA
 Dylan Lin, UC Davis, USA

2019-2021 Esperanza Camilla Cortez, UC Davis, USA
 Rose Sherman, UC Davis, USA
 Cheuk Kit Ling, UC Davis, USA

Winter 2019 Emily Neff, UC Davis, USA
 Summer 2015 Michelle Barbosa, Stony Brook University, USA
 Nancy Wei, Stony Brook University
 Mikhail Bredikhin, Stony Brook University, USA
 Spring 2013-Summer 2013 Laury Baillon, Ifremer, France

Technical research supervising:

2023-Current Emerson Feddor, Jr. Specialist, UC Davis, USA
 Andrea Chandler, Jr. Specialist, UC Davis, USA

2020-2022 Celeste Valdivia, Jr. Specialist, UC Davis, USA
 Nicole J. Egan, Jr. Specialist, UC Davis, USA
 Camilo Jz. Sanchez, Jr. Specialist, UC Davis, USA

2019 Paola Elia Perez, Jr. Specialist, UC Davis, USA

Awarded Trainees

Undergraduate Student

2023 Dylan Lin (Student Assistant) NorCal SETAC Scholarship Award, NorCal SETAC Annual Meeting.

Graduate Student

2023 Jackie Lang (PhD Candidate), NorCal SETAC Scholarship Award, NorCal SETAC Annual Meeting
 2024 Jackie Lang (PhD Candidate), Second Best Presentation Award, Annual Interagency Ecological Program workshop

Post-doctoral researcher

2024 Louise Cominassi, First Best Presentation Award, Annual Interagency Ecological Program workshop

Course

2024 Fall Comparative Organology, Instructor on Record – Integument System (APC100 course) UC Davis
 2023 Fall Comparative Organology, Instructor on Record – Integument System (APC100 course) UC Davis

Seminar/Lab

2024 Fall Quarter, Instructor on Record, Seminar: Environmental Stressors in Aquatic Ecosystems, UC Davis, USA
 2024 Fall Quarter, Comparative Organology, Instructor on Record – Integument System (APC100 Lab) UC Davis
 2021 Fall Quarter, co-Instructor on Record, Seminar: Environmental Stressors in Aquatic Ecosystems, UC Davis, USA

2013	Winter Quarter, Lectureship, Seminar: Marine Virology, South Brittany University, Vannes, France
2013	Winter Quarter, Lectureship, Lab: Molecular and cellular biology, South Brittany University, Vannes, France
2012	Winter Quarter, Lectureship, Seminar: Marine Virology, South Brittany University, Vannes, France
2012	Winter Quarter, Lectureship, Lab: Molecular and cellular biology, South Brittany University, Vannes, France
2011	Winter Quarter, Lectureship, Seminar: Marine virology, South Brittany University, Vannes, France
2011	Winter Quarter, Lectureship, Lab: Molecular and cellular biology, South Brittany University, Vannes, France

Advanced Skills Training (UC Davis)

2021	Virtual hands-on workshops in microbial community analysis, Genome Center, Bioinformatics core, UC Davis, CA, US.
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Peer-reviewed Publications (#trainee, @corresponding author, *equal contribution)

Accepted manuscripts

1. Knaub K, Habibullah-Al-Mamun M, Huff Hartz KE, Whitley G, Cominassi L#, Chandler A#, Arkles M, Reeve J, **Segarra A.**, Connon RE, Lydy MJ (2025). Development of a Response Spectrum Model for Bifenthrin in Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*). *Environ Pollut*.10.1016/j.envpol.2025.126070
2. Cominassi L.#, **Segarra A. @**, Chandler A.#, Habibullah-Al-Mamun M., Knaub K., Huff Hartz K.E., Mauduit F., Fangue N., Whitley G.W., Lydy M.J., Connon R.E. (2025) Sub-lethal exposures to bifenthrin impact stress responses and behavior of juvenile Chinook Salmon. *Environmental Science & Technology*. 10.1093/etjnl/vgaf029
3. Huff Hartz K; Knaub K; Habibullah Al-Mamun M; Connon R; Whitley G; **Segarra A**, Lydy M. (2024). Using an internal body residue approach to assess acute pesticide toxicity in juvenile Chinook salmon (*Oncorhynchus tshawytscha*) *Environmental Pollution* 123364
4. Hutton, S; Siddiqui, S; Pedersen, E; Markgraf, C; **Segarra, A**; Hladik, M; Connon, R; Brander, SM. (2024). Multigenerational, indirect exposure to pyrethroids demonstrates potential compensatory response and reduced toxicity at higher salinity in estuarine fish. *Environmental Science & Technology*. IN PRESS
5. Mauduit F, **Segarra A.***, Sherman J.R., Hladik M., Wong L., Young T., Lewis L.S., Hung, TC., Fangue, N.A., Connon RE. (2023). Bifenthrin, a ubiquitous contaminant, impairs the development and behavior of the threatened Longfin Smelt during early life stages. *Environmental Science & Technology*, 57(26): 9580–9591, 2023.
6. Hutton SJ, Siddiqui S, Pedersen E.I, Markgraf C.Y, **Segarra A.**, Hladik M.L, Connon R.E, Brander S.M. (2023) Comparative behavioral ecotoxicology of Inland Silverside larvae exposed to pyrethroids across a salinity gradient. *Science of the Total Environment* 857(3): 159398.
7. Mauduit F, **Segarra A.**, Mandic M, Todgham A, Baerwald M, Schreier A.D., Fangue N.A, Connon R.E. (2022) Contributions of pathogen infection to outmigrating juvenile Chinook salmon health and physiological performance. *Conservation Physiology*. 10.1093/conphys/coab102.
8. Gille D.A, Barney B.T, **Segarra A.**, Baerwald M.R, Schreier A.D, and Connon R.E. (2022) Investigation of molecular pathogen screening assays for use in delta smelt. *San Francisco Estuary and Watershed Science* (20:1).
9. **Segarra A.**, Mauduit F., Amer NR#, Biefel F#, Hladik ML, Connon RE, Brander SM (2021). Salinity changes the dynamics of pyrethroid toxicity in terms of behavioral effects on newly hatched Delta Smelt larvae. *Toxics* 1076383.
10. Derby AP, Fuller NW, Huff Hartz KE, **Segarra A**, Connon RE, Brander SM, Poynton HC, Lydy MJ (2021). Trophic transfer, bioaccumulation, and transcript omit effects of permethrin in Inland silversides, *Menidia beryllina*, under future climate scenarios. *Environmental Pollution* 275(1):116545
11. Leprêtre M, Faury N, **Segarra A**, Claverol S, Degremont L, Palos Ladeiro M, Armengaud J, Renault T, Morga B (2021). Proteomic analysis of virus-host interactions: How do two families of oysters exhibit contrasted susceptibility to ostreid herpesvirus 1 (OsHV-1) infection? *Front. Immunol.* 11:621994.
12. Lafont M, Petton B, Vergnes A, Pauletto M, **Segarra A**, Gourbal B, Montagnani C (2017). Long-lasting antiviral innate immune priming in the Lophotrochozoan Pacific oyster, *Crassostrea gigas*. *Scientific*

Reports, 7: 13143.

13. Pauletto M, **Segarra A***, Montagnani C, Quillien V, Faury N, Le Grand J, Miner P, Petton B, Labreuche Y, Fleury E, Fabioux C, Bargelloni L, Renault T, Huvet A (2017). Long dsRNAs promote an anti-viral response in oyster emphasizing the need of new reverse genetics tool development in marine mollusks for assessing immune gene function. *Journal of Experimental Biology*, 220, 3671-3685.
14. Martenot C, **Segarra A**, Baillon L, Faury N, Houssin M, Renault T (2016). *In situ* localization and tissue distribution of ostreid herpesvirus 1 proteins in infected Pacific oyster, *Crassostrea gigas*. *Journal of Invertebrate Pathology* 136:124-135.
15. **Segarra A**, Baillon L#, Faury N, Tourbiez D, Renault T (2016). Detection and distribution of ostreid 1 herpesvirus 1 in experimentally infected Pacific oyster spat. *Journal of Invertebrate Pathology*, 133:59-65.
16. Moreau P, Moreau K, **Segarra A**, Tourbiez D, Travers M-A, Rubinsztein D and Renault T (2015). Autophagy plays an important role in protecting Pacific oysters from OsHV-1 and *Vibrio aestuarianus* infections. *Autophagy*, 11(3), 516-526.
17. Corbeil S, Faury N, **Segarra A**, Renault T (2015). Development of an *in-situ* hybridization assay for detecting ostreid herpesvirus type 1 mRNAs in the Pacific oyster, *Crassostrea gigas*. *Journal of Virological Methods*, 211, 43-50.
18. **Segarra A**, Baillon L#, Bourgougnon N, Lionel D, Benabdelmouna A, Tourbiez D, Renault T (2014). Ostreid herpesvirus type 1 replication and host response in adult Pacific oysters, *Crassostrea gigas*. *BMC Veterinary Research*, 45:103.
19. **Segarra A**, Mauduit F#, Dégremont L, Faury N, Haffner P, Pépin JF, Tourbiez D, Trancart S, Travers A, Renault T (2014). Dual Transcriptomics of Virus-host interactions: comparing two Pacific oyster families presenting different levels of susceptibility to ostreid herpesvirus 1. *BMC Genomics* 15(580), 1-13.
20. **Segarra A**, Faury N, Pépin JF, Renault T (2014). Transcriptomic study of 39 ostreid herpesvirus 1 genes during an experimental infection. *Journal of Invertebrate Pathology*, 119, 5-11.
21. Renault T, Tchaleu G, Faury N, Moreau P, **Segarra A**, Barbosa Solomieu V, Lapègue S (2014). Genotyping of a microsatellite locus to differentiate clinical Ostreid herpesvirus 1 specimens. *Veterinary Research*, 45:3.
22. Renault T, Moreau P, Faury N, Pepin JF, **Segarra A**, Webb S (2012). Analysis of Clinical Ostreid Herpesvirus 1 (*Malacoherpesviridae*) Specimens by Sequencing Amplified Fragments from Three Virus Genome Areas. *Journal of Virology*, 86(10), 5942-5947.
23. Morga B, Arzul I, Faury N, **Segarra A**, Chollet B, Renault T (2011). Molecular responses of *Ostrea edulis* hemocytes to an *in vitro* infection with *Bonamia ostreae*. *Developmental and Comparative Immunology*, 35(3), 323-333.
24. **Segarra A**, Pepin JF, Arzul I, Morga B, Faury N, Renault T (2010). Detection and description of a particular Ostreid herpesvirus 1 genotype associated with massive mortality outbreaks of Pacific oysters, *Crassostrea gigas*, in France in 2008. *Virus Research*, 153(1), 92-99.

Submitted or in Press manuscripts

25. Atencio B.J, Sanchez C.J, Hallett S.L, Atkinson S.D, **Segarra A.**, Connon R.E, Foott J.S, and Daniels M.E (2024), Predicting pathogen infection in juvenile Chinook salmon in relation to other environmental factors and ways to reduce infection risk. Submitted in *Ecological Applications*.

Platform presentations and posters (since 2020) (#Trainee)

- Chandler#, M. Daniels, **A. Segarra**. Going Viral: Presence and Abundance of Pathogens in Ocean Caught Chinook Salmon Prior to Freshwater Entry (2025), Presentation, Annual workshop Interagency Ecological Program, March 4-6, Sacramento.
- J. Lang#, Cominassi, L. #, T. Young, N. Fangue, F. Mauduit, R.E Connon, **A. Segarra**. An Assessment of 6PPD-Quinone Acute and Sublethal Toxicity on Endangered Smelt in the Sacramento-San Joaquin Delta (2025). Annual workshop Interagency Ecological Program, March 4-6, Sacramento.
- L. Cominassi#, **A. Segarra**, K.J. Knaub M. Lydy, R.E. Connon. Evaluating the Impact of Pesticide Mixtures on Juvenile Chinook Salmon Behavior Using Body Residues, Presentation (2025), Annual workshop Interagency Ecological Program, March 4-6, Sacramento.
- **A. Segarra**. Understanding effects of contaminants on fish behavior can inform conservation efforts, Bay-Delta Science conference; Cultivating Connections for a Dynamically Changing Environment; Sept 30-Oct 2, 2024, Sacramento

- L. Cominassi[#]: Navigating Toxic Waters: Sub-lethal Concentrations of Bifenthrin Impact the Behavior of Chinook Salmon but not their Cardiac-Respiratory System, Interagency Ecological Program, Annual workshop IEP **2024**, Sacramento
- J.Lang[#], **A. Segarra**. An Assessment of 6PPD-Quinone Acute and Sublethal Toxicity on San Francisco Bay-Delta Species of Conservation Concern, Interagency Ecological Program, Annual workshop IEP **2024**, Sacramento
- K.J. Knaub, M.H. Al-Mamun, K.E. Huff Hartz, **A. Segarra**, R.E. Connon, M.J. Lydy. (**2023**). Acute Toxicity of 4,4'-DDE, Bifenthrin, and Fipronil to Juvenile Chinook Salmon (*Oncorhynchus tshawytscha*) Using Whole Body Residues. SETAC North America 44th Annual Meeting (Poster).
- L. Cominassi[#], A. Chandler[#], **A. Segarra**, F. Mauduit, M. Habibullah-Al-Mamun, K. Knaub, K.E. HuffHartz, M.J. Lydy, R.E. Connon. (**2023**) Linking insecticide exposure with cardio-respiratory and behavioral impairment in juvenile Chinook Salmon. SETAC North America 44th Annual Meeting (Poster).
- Lang, J. [#], Cominassi, L. [#], Mauduit, F., Young, T., Fangue, N., Connon, R., **Segarra A.** (**2023**). Acute and Sublethal Toxicity of 6PPD-quinone to five California Fish Species. Interagency Ecological Program Project Work Team Chairs and Stakeholders Meeting.
- A, Chandler[#], L. Cominassi[#], **A. Segarra**, M; Habibullah-Al-Mamun, K. Knaub, K.E. Huff Hartz, M.J. Lydy, R.E. Connon (**2023**) Effects of insecticide on thermal performance and behavior of juvenile Chinook Salmon. NorCal SETAC 31st Annual Metting.
- J. Lang[#], L. Cominassi[#], A. Chandler[#], L. Wong, N. Fangue, TM. Young, F. Mauduit, RE. Connon, **A Segarra**. (**2023**) When the Rubber Meets the River: An Assessment of 6PPD-Quinone Acute and Sublethal Toxicity on San Francisco Bay Delta Species of Conservation Concern. SETAC North America 44th Annual Meeting (Poster).
- A, Chandler[#], C. Lievin[#], **A. Segarra**, M; Mia Arkles, K.E. Huff Hartz, M.J. Lydy³, R.E. Connon (**2023**) Impacts of storm-driven contaminants on larval Delta Smelt. Norcal SETAC 31st Annual Metting (Poster).
- Lang[#], J., Cominassi, L[#], Mauduit, F., Young, T., Fangue, N., Connon, R., **Segarra A.** (**2023**). Toxicological Assessment of 6PPD-quinone to Delta species of conservation concern. Interagency Ecological Program Contaminants Project Work Team.
- S. J. Hutton; S. Siddiqui; C.Y. Markgraf; E.I. Pedersen; **A. Segarra**, M.L. Hladik; RE. Connon; S.M. Brander (**2022**). Multigenerational toxicity of pyrethroids at two salinities in the model estuarine fish (*Menidia beryllina*). SETAC North American, 43rd Annual Meeting.
- Sanchez C.J, Atencio B.J, **Segarra A**, Biefel F, Hallett S.L, Atkinson S.D, Daniels M.E, Connon R.E (**2022**) There's something in the water: Salmonid pathogen distribution in California's Central Valley. NorCal SETAC 30th Annual Meeting.
- Valdivia C[#], Abdelrazek S.M.R, **Segarra A**, Brander S. M, Lydy M. J., Connon R. E. (**2022**). Impacts of bifenthrin, an endocrine disrupting pesticide, on the reproductive health of Delta Smelt (*Hypomesus transpacificus*). NorCal SETAC 30th Annual Meeting, poster.
- **Segarra A**, Mauduit F, Hladik M.L, Connon R.E, Brander S.M (**2021**) Pyrethroid effects on the behavior of early larvae of an endangered fish species across a salinity gradient. SETAC Europe 31st Annual Meeting (Virtual conference).
- Hutton S.J, Siddiqui S, Pedersen E.I, **Segarra A**, Hladik M.L, Connon R.E, Brander S.M (**2021**) Salinity influences toxicity and toxic effects of biocides in a model, estuarine fish species (*Menidia beryllina*). SETAC Europe 31st Annual Meeting (Virtual conference).
- Hutton S.J, Siddiqui S, Pedersen E.I, **Segarra A**, Hladik M.L, Connon R.E, Brander S.M (**2021**) Effects of pyrethroid insecticides across a salinity gradient on behavior in an endangered fish species and a model organism. 11th Biennial Bay-Delta Science Conference.
- Fuller N, Derby AP, Huff Hartz K.E, **Segarra A**, Brander SM, Connon RE, Lydy MJ (**2021**) Trophic transfer, bioaccumulation, and transcriptomic effects of permethrin in inland silversides, *Menidia beryllina*, under future climate scenarios. 11th Biennial Bay-Delta Science Conference
- **Segarra A**, Biefel F[#], Amer N, Hladik ML, Connon RE, Brander SM (**2020**). Evaluation of Sublethal Pyrethroid Toxicity Across a Salinity Gradient in Early-Life Stage of the Endangered Delta Smelt (*Hypomesus transpacificus*). SETAC North America 41st Annual Meeting (Virtual conference).
- **Segarra A**, Mundy PM, Biefel F, Brander SM, Hladik M, Hung T-C, Huff Hartz K, Lydy M, Fangue N, Connon RE (**2020**). Interactions of Salinity and Pyrethroid Toxicity on Early-Life Stage Delta Smelt: Behavior. NorCal SETAC, Annual Meeting (Virtual).

- Hutton SJ, Pederson E, Markgraf C, **Segarra A**, Hladik ML, Connon RE and Brander SM (2020). Exposure to Pyrethroid Pesticides Across a Salinity Gradient in a Model Estuarine Organism. SETAC North America 41st Annual Meeting (Virtual conference).
- Hutton S.J., Pedersen E.I, Siddiqui S, **Segarra A**, Hladik L.M, Connon, R.E, Brander S.M (2020). Using behavior to assess the sublethal effects of pyrethroid exposure at different salinities in estuarine fish. Platform. Western Society of Naturalists Annual Meeting. Virtual.
- Mundy PM, **Segarra A**, Biefel F[#], Brander SM, Hladik M, Hung T-C, Huff Hartz K, Lydy M., Fangue N, Connon RE (2020). Environmentally Relevant Pesticide Concentrations Impact Behavior of Delta Smelt Yolk-sac Larvae. Interagency Ecological Program (IEP) Virtual Workshop.

Media

2024: The Problem with Microplastics, section “Toxic byproducts” – UC Davis Magazine, November 18, <https://www.ucdavis.edu/magazine/problem-microplastics>

2023: DELTA LEAD SCIENTIST REPORT: Wildfires increasing in acres burned and severity, but total cost to California remains unclear. Under “Study to examine impact of fire retardant on species”: <https://mavensnotebook.com/2023/07/06/delta-council-wildfires-increasing-in-acres-burned-and-severity-but-total-cost-to-california-remains-unclear/>

2021: DELTA LEAD SCIENTIST REPORT: Effects of pesticides on species in the Delta; Maven’s notebook. <https://mavensnotebook.com/2021/11/30/delta-lead-scientist-report-effects-of-pesticides-on-species-in-the-delta-plus-activities-of-the-delta-science-program/>