Amelie Segarra

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Education

Ph.D. in Biology Health, Southern Brittany University, Vannes, France (2014)
Master's in Biotechnology, Sup'Biotech Paris, Villejuif, France (2010)
Bachelor's in Biotechnology, Sup'Biotech Paris (2008)

Research overview

My research investigates how aquatic organisms respond to anthropogenic and environmental stressors, including contaminants, pathogens and their interactions with climate change. I employ multidisciplinary approaches that integrate molecular biology, immunology, behavioral analysis, and physiology to study these impacts in both laboratory and field contexts. I utilize model species such as zebrafish (*Danio rerio*) to explore fundamental toxicological mechanisms, and threatened species, including Chinook salmon (*Oncorhynchus tshawytscha*), to address applied questions in ecological and conservation toxicology.

Professional experience

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

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: **Principal Investigator**. Post-drought wildfire retardant first flushes on early life stage Chinook Salmon (*Oncorhynchus tshawytscha*) and Rainbow Trout (*O. mykiss*). Co-PIs: Connon (UCD). Sponsor: Delta Stewardship Council ($231,235)
-2022-2026: **Co-Principal Investigator**. Whole animal New Approach Methodologies for predicting developmental effects of air pollutant mixtures. PI. Poynton H., University of Massachusetts, Boston, Sponsor: U.S. Environment Protection Agency-STAR ($750,000)
-2023-2025: **Co-Principal Investigator**: Reconnecting Winter Run to their Ancestral Waters: monitoring reintroduction success on the McCloud. PI: Jeffres C. (UCD). Sponsor: California Department of Fish and Wildlife (CDFW) ($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, Sponsor: State Water Contractors ($525,720).

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: CDFW ($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. Connon (UCD); Sponsor: CDFW ($756,572).

Honors & Awards

2020	UC Davis Postdoctoral Scholars Association Travel Grant ($400).
2017-2019	LabexMer Post-doc fellowship, Best research proposal in marine sciences (€114,328).
2014	Ph.D with Honors, Southern Brittany University, Vannes, France

Patent

WO2011107850 (A1): Identification of the microvar strain of *Ostreid herpesvirus 1* (OsHV-1), 2011

Professional Service

Scientific Peer Review

Proposal Evaluation

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

Grant Review

-NorCal SETAC fellowship - Reviewer (2024: 4 applications)
-Robert Emrie Smith Memorial Research Fellowship (APC) - Reviewer (2023: 4 apps; 2024: 4 apps)
-2024 Ralph L. Kitchell Memorial Fellowship (APC) - (2023: 2 apps; 2024: 2 apps)

Journal Peer Review (since 2020)

-Diseases of Aquatic Organisms Journal (2024: 1; 2020: 2)
-Aquaculture and Fisheries (2023: 1)
-Aquatic toxicology (2023: 1)
-Journal of Invertebrate Pathology (2021: 2)

Editorial and Advisory Boards

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

Conference, Seminar, & Working Group Leadership

-**Co-Chair**, Contaminants Project Work Team, Interagency Ecological Program (IEP), California, (2024-Current)
-**Organizer**, Work-In Progress Seminar series, Department of Anatomy, Physiology and Cell Biology, UC Davis (2023-Current)
-**Planning Committee Member**, Microplastic Symposium: Impact on the SF Bay-Delta and Remediation Strategies, UC Davis Coastal and Marine Sciences Institute & Delta Science Program (May 9, 2025)
-**Planning Committee Member**, 2025 IEP Annual Workshop (March 4-6th, 2025)

Institutional and Advisory Committees

-Admissions Committee Member, Agricultural and Environmental Chemistry Graduate Group, UC Davis (2025: 18).
-Academic Federation Peer review Committee, UC Davis School of Veterinary Medicine, Departments APC and VMB (2023-Current)
-Faculty Member, Agricultural and Environmental Chemistry Graduate Group, UC Davis (2023-Current)
-**Member**, IEP Project Work Team: Contaminants Advisory Task force (2023-Current)
-**Member**, IEP Project Work Team: Genetics Advisory Task force (2023-Current)
-**Affiliate**, Coastal and Marine Sciences Institute (CMSI), UC Davis (2021-Current)

Professional organization

-Society of Environmental Toxicology and Chemistry (SETAC), Member (2019-Current)

-NorCal SETAC - Board of Directors, Member (2022-Current)
-Animal Behavior Society (ABS), Member (2024-2025)

Teaching

Ph.D. Committee Member

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

Master's Committee Member

2023-2024: Nicholas Hudson, M.S in Animal Biology, UC Davis

Advising/Mentoring (UC Davis Unless Noted)

Postdoctoral Researcher Supervision

2024-Current	Zoha Siddiqua
2023-2026	Louise Cominassi
2018-2019	Myrina Boulais, Western Brittany University, Brest, France

Graduate Student Research Supervision

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

Undergraduate research supervising

2023-2024	Alden Nasser Oakes LeRoy, Practicum, Animal Biology (Spring, ABI 189 006)
	Erin Kathleen Lamphear, Practicum, Animal Biology (Spring, ABI 189 006)
	Breanna Carmona, Practicum, Animal Biology
	Kyra Eulo, Fish Toxicology
	Rheanna Shaunt'E Adams, Practicum, Fish Toxicology
	Dylan Lin, Student Assistant
	Alice Ardon, Student Assistant
	Sara Rozmaryn, Student Assistant
	Sheareen Khasawneh, Volunteer
	John Isla, Volunteer
	Serina Kung, Volunteer
	Skyy Latchford, Volunteer
2022-2023	Celia Gaxiola, Practicum, Aquatic Toxicology
	Dylan Lin
2019-2021	Esperanza Camilla Cortez
	Rose Sherman
	Cheuk Kit Ling
2019 (Winter)	Emily Neff
2015 (Summer)	Michelle Barbosa, Stony Brook University, NY
	Nancy Wei, Stony Brook University
	Mikhail Bredikhin, Stony Brook University, NY
2013 (Spring-Summer)	Laury Baillon, Ifremer, France

Technical Staff Supervision (Junior Specialists)

2023-2025	Emerson Feddor, Andrea Chandler
2020-2022	Celeste Valdivia, Nicole J. Egan, Camilo Jz. Sanchez
2019	Paola Elia Perez

Awarded Trainees

Undergraduate Students

2025 Andrea Chandler, 2nd Best Presentation, NorCal SETAC Annual Meeting

2025 Kenya Quijada Escobar, NorCal SETAC, 3rd Best Presentation, NorCal SETAC Annual Meeting
2023 Dylan Lin, NorCal SETAC Scholarship

Graduate Students
2025 Maxime Debources (Master's Student), Best Poster, NorCal SETAC Scholarship Award
2024 Jackie Lang (PhD Student), 2nd Best Presentation, IEP Annual Workshop
2023 Jackie Lang (PhD Student), NorCal SETAC Scholarship

Postdoctoral Researcher
2024 Louise Cominassi, 1st Best Presentation, IEP Annual Workshop

Course Instruction

Instructor of Record
2024 Fall Seminar, Environmental Stressors in Aquatic Ecosystems, UC Davis
2024 Fall Comparative Organology, Integument System (APC100 Lecture & Lab), UC Davis
2023 Fall Comparative Organology, Integument System (APC100 Lecture & Lab), UC Davis
2021 Fall Seminar (Co-instructor), Environmental Stressors in Aquatic Ecosystems, UC Davis

Lecturer – South Brittany University, France
2011-2013 Winter Seminar: Marine Virology
2011-2013 Winter Laboratory: Molecular & Cellular Biology

Advanced Skills Training

2021 Virtual hands-on workshops in microbial community analysis, Genome Center, Bioinformatics core, UC Davis, CA, US.

Peer-reviewed Publications ([#]trainee, [@]corresponding author, *equal contribution)

Accepted manuscripts

1. Knaub K, Habibullah-Al-Mamun M, Huff Hartz KE, Whitledge 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., Whitledge 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/etojnl/vgaf029*
3. Huff Hartz K; Knaub K; Habibullah Al-Mamun M; Connon R; Whitledge 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. 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 emphazing 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** as Master's Student). 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** as undergraduate student). 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, Presentation, Annual workshop Interagency Ecological Program, March 4-6, Sacramento, **2025**.

- 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, **2025**.
- L. Cominassi[#], **A. Segarra**, K.J. Knaub M. Lydy, RE. Connon. Evaluating the Impact of Pesticide Mixtures on Juvenile Chinook Salmon Behavior Using Body Residues, Presentation Annual workshop Interagency Ecological Program, March 4-6, Sacramento, **2025**.
- **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, Sacramento, **2024**
- L. Cominassi[#], **A. Segarra**. 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, Sacramento, **2024**
- 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, Sacramento, **2024**.
- **Segarra A**. Post-drought wildfire retardant effects on salmonids, comparing across Phos-Chek formulations to better understand potential environmental impacts, Delta Stewardship Council Meeting, Wildfire Panel Presentation, Sacramento, June 22nd, **2023.**
- K.J. Knaub, M.H. Al-Mamun, K.E. Huff Hartz, **A. Segarra**, R.E. Connon, M.J. Lydy. 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), **2023**.
- L. Cominassi[#], A. Chandler[#], **A. Segarra**, F. Mauduit, M. Habibullah-Al-Mamun, K. Knaub, K.E. HuffHartz, M.J. Lydy, R.E. Connon. Linking insecticide exposure with cardio-respiratory and behavioral impairment in juvenile Chinook Salmon. SETAC North America 44th Annual Meeting (Poster), **2023**.
- Lang, J.[#], Cominassi, L.[#], Mauduit, F., Young, T., Fangue, N., Connon, R., **Segarra A**. Acute and Sublethal Toxicity of 6PPD-quinone to five California Fish Species. Interagency Ecological Program Project Work Team Chairs and Stakeholders Meeting, **2023**.
- A, Chandler[#], L. Cominassi[#], **A. Segarra**, M; Habibullah-Al-Mamun, K. Knaub, K.E. Huff Hartz, M.J. Lydy, R.E. Connon. Effects of insecticide on thermal performance and behavior of juvenile Chinook Salmon. NorCal SETAC 31st Annual Metting, **2023**.
- J. Lang[#], L. Cominassi[#], A. Chandler[#], L. Wong, N. Fangue, TM. Young, F. Mauduit, RE. Connon, **A Segarra**. 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), **2023**.
- A, Chandler[#], C. Lievin[#], **A. Segarra**, M; Mia Arkles, K.E. Huff Hartz, M.J. Lydy3, R.E. Connon. Impacts of storm-driven contaminants on larval Delta Smelt. Norcal SETAC 31st Annual Metting (Poster), **2023**.
- Lang J[#]., Cominassi, L[#]., Mauduit, F., Young, T., Fangue, N., Connon, R., **Segarra A.** Toxicological Assessment of 6PPD-quinone to Delta species of conservation concern. Interagency Ecological Program Contaminants Project Work Team, **2023**.
- S. J. Hutton; S. Siddiqui; C.Y. Markgraf; E.I. Pedersen; **A. Segarra**, M.L. Hladik; RE. Connon; S.M. Brander. Multigenerational toxicity of pyrethroids at two salinities in the model estuarine fish (*Menidia beryllina*). SETAC North American, 43rd Annual Meeting, **2022**.
- Sanchez C.J, Atencio B.J, **Segarra A**, Biefel F, Hallett S.L, Atkinson S.D, Daniels M.E, Connon R.E. There's something in the water: Salmonid pathogen distribution in California's Central Valley. NorCal SETAC 30th Annual Meeting, **2022**.
- Valdivia C[#], Abdelrazek S.M.R, **Segarra A**, Brander S. M, Lydy M. J., Connon R. E. Impacts of bifenthrin, an endocrine disrupting pesticide, on the reproductive health of Delta Smelt (*Hypomesus transpacificus*). NorCal SETAC 30th Annual Meeting, poster, **2022**.
- **Segarra A**, Mauduit F, Hladik M.L, Connon R.E, Brander S.M. Pyrethroid effects on the behavior of early larvae of an endangered fish species across a salinity gradient. SETAC Europe 31st Annual Meeting, **2021** (Virtual conference).
- Hutton S.J, Siddiqui S, Pedersen E.I, **Segarra A**, Hladik M.L, Connon R.E, Brander S.M. Salinity influences toxicity and toxic effects of biocides in a model, estuarine fish species (*Menidia beryllina*). SETAC Europe 31st Annual Meeting (Virtual conference), **2021**.

- 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. Trophic transfer, bioaccumulation, and transcriptomic effects of permethrin in inland silversides, Menidia beryllina, under future climate scenarios. 11th Biennial Bay-Delta Science Conference , **2021**
- **Segarra A**, Biefel F#, Amer N, Hladik ML, Connon RE, Brander SM, 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), **2020**.
- **Segarra A**, Mundy PM, Biefel F, Brander SM, Hladik M, Hung T-C, Huff Hartz K, Lydy M, Fangue N, Connon RE. Interactions of Salinity and Pyrethroid Toxicity on Early-Life Stage Delta Smelt: Behavior. NorCal SETAC, Annual Meeting (Virtual), **2020**.
- Hutton SJ, Pederson E, Markgraf C, **Segarra A**, Hladik ML, Connon RE and Brander SM. Exposure to Pyrethroid Pesticides Across a Salinity Gradient in a Model Estuarine Organism. SETAC North America 41st Annual Meeting (Virtual conference), **2020**.
- Hutton S.J., Pedersen E.I, Siddiqui S, **Segarra A**, Hladik L.M, Connon, R.E, Brander S.M. Using behavior to assess the sublethal effects of pyrethroid exposure at different salinities in estuarine fish. Platform. Western Society of Naturalists Annual Meeting. Virtual, **2020**.
- Mundy PM, **Segarra A**, Biefel F#, Brander SM, Hladik M, Hung T-C, Huff Hartz K, Lydy M., Fangue N, Connon RE. Environmentally Relevant Pesticide Concentrations Impact Behavior of Delta Smelt Yolk-sac Larvae. Interagency Ecological Program (IEP) Virtual Workshop, **2020**.

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/