

Scott G. Lynn

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Academic Preparation

PhD in Biology, University of Kentucky, Lexington, Kentucky.

Dissertation: Cloning and expression of key endocrine genes in a study of estrogen stimulated sexual size dimorphism (SSD) in yellow perch (*Perca flavescens*)

MS in Bioscience and Biotechnology, Drexel University, Philadelphia, Pennsylvania.

Thesis: Effects of nutrient availability on the biochemical and elemental stoichiometry of a freshwater diatom *Stephanodiscus minutulus* (Bacillariophyceae)

BS in Environmental Resource Management, Penn State University, University Park, Pennsylvania.

Specialization: Water quality and soil resources

Professional Appointments

US Environmental Protection Agency, Office of Pesticide Programs

Oct 2020 to present

Fish Biologist in the Endocrine Disruptor Screening Program (EDSP)

- Review technical literature for scientific validity
- Provide science and policy interagency comments and input technical monographs and reports.
- Give presentations to national and international audiences on program direction
- Manage financial contracts as a TO COR and PO and ensure quality of deliverables
- Lead and participate in scientific work groups
- Represent US EPA on endocrine disruption and other issues to international workgroups and governments

University of Maryland, Department of Environmental Sciences and Technology

Jan 2015 to present

Lecturer and Special Graduate Faculty

- Primary co-instructor for ENST 445 Ecological Risk Assessment

US Environmental Protection Agency, Office of Science Coordination and Policy

Apr 2015 to Jun 2016

Federal Insecticide, Fungicide, Rodenticide Act (FIFRA) Science Advisory Panel (SAP)

Detail as a Designated Federal Official (DFO)

- Conferred with Agency officials to develop cross program policies and issues
- Coordinates aspects of meetings and provide administrative and technical guidance to attendees
- Ensures that technical reports are thorough and scientifically sound and responsive
- Provide authoritative scientific and technical expertise in scientific peer review
- Provide a technical review of background materials and presentations to ensure scientific basis

US Environmental Protection Agency, Office of Science Coordination and Policy

Feb 2011 to Oct 2020

Exposure, Assessment Coordination and Policy Division (EACPD)

Fish Biologist in the Endocrine Disruptor Screening Program (EDSP)

- Review technical literature for scientific validity
- Provide science and policy interagency comments and input technical monographs and reports.
- Give presentations to national and international audiences on program direction
- Manage financial contracts as a TO COR and PO and ensure quality of deliverables
- Lead and participate in scientific work groups
- Represent US EPA on endocrine disruption and other issues to international workgroups and governments

Fulbright Association for Educational Exchange

Jan 2010 to Aug 2010

Post-doctoral Fulbright Research Scholar investigating endocrine disruption and climate change

Michigan State University, Department of Biochemistry and Molecular Biology






















Nov 2006 to Dec 2009

NIEHS post-doctoral fellow through the Center for Integrative Toxicology





Visiting Research Associate investigating the molecular and biochemical mechanisms of hypoxia and AhR

Peer Reviewed Publications

1. Ceger P, Garcia-Reyero Vinas N, Allen D, Arnold E, Bloom R, Brennan JC, Clarke C, Eisenreich K, Fay K, Hamm J, Henry PFP, Horak K, Hunter W, Judkins D, Klein P, Kleinstreuer N, Koehn K, LaLone CA, Laurenson JP, Leet JK,

- Lowit A, **Lynn SG**, Norberg-King T, Perkins EJ, Petersen EJ, Rattner BA, Sprankle CS, Steeger T, Warren JE, Winfield S, Odenkirchen E. 2022. Current ecotoxicity testing needs among selected U.S. federal agencies. *Regulatory Toxicology Pharmacology*. 2022. 133:105195. [ABSTRACT](#) 
2. Burden N, MR Embry, TH Hutchinson, **SG Lynn**, SK Maynard, CA Mitchell, F Pellizzato, F Sewell, KL Thorpe, L Weltje, JR Wheeler. 2021. Investigating endocrine-disrupting properties of chemicals in fish and amphibians: Opportunities to apply the 3Rs. *Integrated Environmental Assessment and Management*. 18:442-458. [ABSTRACT](#) 
 3. Black S, JW Nichols, KA Fay, SR Matten, **SG Lynn**. 2021. Evaluation and comparison of in vitro intrinsic clearance rates measured using cryopreserved hepatocytes from humans, rats, and rainbow trout. *Toxicology*. 457:152819. [ABSTRACT](#) 
 4. Bell SM, X Chang, JF Wambaugh, DG Allen, M Bartels, KLR Brouwer, WM Casey, N Choksi, SS Ferguson, G Fraczkiwicz, AM Jarabek, A Ke, A Lumen, **SG Lynn**, A Paini, PS Price, C Ring, TW Simon, NS Sipes, CS Sprankle, J Strickland, J Troutman, BA Wetmore, NC Kleinstreuer. 2018. In vitro to in vivo extrapolation for high throughput prioritization and decision making. *Toxicology In Vitro*. 47:213-227. [ABSTRACT](#) 
 5. Saini Y, SP Proper, P Dornbos, KK Greenwood, AK Kopec, **SG Lynn**, E Grier, LD Burgoon, TR Zacharewski, RS Thomas, JR Harkema and JJ LaPres. 2015. Loss of HIF-2 α rescues the HIF1 α deletion phenotype of neonatal respiratory distress in mice. *PLoS ONE*. 10(9):e0139270. [ABSTRACT](#) 
 6. Hwang HJ, **SG Lynn**, A Vengellur, Y Saini, EA Grier, SM Ferguson-Miller and JJ LaPres. 2015. Hypoxia inducible factors modulate mitochondrial oxygen consumption and transcriptional regulation of nuclear-encoded electron transport chain genes. *Biochemistry*. 54(24):3739-3748. [ABSTRACT](#) 
 7. Tappenden DM, **SG Lynn**, A Vengellur, RB Crawford, NE Kaminski, RS Thomas and JJ LaPres. 2011. The aryl hydrocarbon receptor interacts with ATP5 α 1, a subunit of the ATP synthase complex, and modulates mitochondrial function. *Toxicology and Applied Pharmacology*. 254(3):299-310. [ABSTRACT](#) 
 8. **Lynn SG**, GK Wallat, JA Malison and BS Shepherd. 2011. Developmental expression and estrogen responses of endocrine genes in juvenile yellow perch (*Perca flavescens*). *General and Comparative Endocrinology*. 171(2):151-159. [ABSTRACT](#) 
 9. Forgacs AL, LD Burgoon, **SG Lynn**, JJ LaPres and TR Zacharewski. 2010. Effects of TCDD on the expression of nuclear encoded mitochondrial genes. *Toxicology and Applied Pharmacology*. 246(1-2):58-65. [ABSTRACT](#) 
 10. Brammell BF, IT Struewing, DM Klarer and **SG Lynn**. 2010. An evaluation of the ichthyofauna of Old Woman Creek estuary, a unique aquatic resource. *Journal of Freshwater Ecology*. 24(4):521-527. 
 11. **Lynn SG**, KA Powell, DF Westneat and BS Shepherd. 2009. Seasonal and sex-specific mRNA levels of key endocrine genes in adult yellow perch (*Perca flavescens*) from Lake Erie. *Marine Biotechnology*. 11(2):210-222. [ABSTRACT](#) 
 12. **Lynn SG**, WJ Birge and BS Shepherd. 2008. Molecular characterization and sex-specific tissue expression of estrogen receptor α (*esr1*), estrogen receptor β a (*esr2a*) and ovarian aromatase (*cyp19a1a*) in yellow perch (*Perca flavescens*). *Comparative Biochemistry and Physiology—Part B: Biochemistry and Molecular Biology*. 149(1):126-147. [ABSTRACT](#) 
 13. **Lynn SG** and BS Shepherd. 2007. Molecular characterization and sex-specific tissue expression of prolactin, somatolactin and insulin-like growth factor-I in yellow perch (*Perca flavescens*). *Comparative Biochemistry and Physiology – Part B: Biochemistry and Molecular Biology*. 147(3):412-427. [ABSTRACT](#) 
 14. **Lynn SG**, DJ Price, WJ Birge and SS Kilham. 2007. Effect of nutrient availability on the uptake of PCB congener 2,2',6,6'-Tetrachlorobiphenyl by a diatom (*Stephanodiscus minutulus*) and transfer to a zooplankton (*Daphnia pulex*). *Aquatic Toxicology*. 83(1):24-32. [ABSTRACT](#) 
 15. **Lynn SG** and Lindle C. 2002. The effect of anthropogenic habitat modification on habitat use by *Afrana angolensis* along the Dodwe River, Tanzania. *African Journal of Herpetology*. 51(1):69-73. 
 16. Rehage JS, **SG Lynn**, JI Hammond, BD Palmer and A Sih. 2002. Effects of larval exposure to triphenyltin on the survival, growth and behavior of larval and juvenile *Ambystoma barbouri* salamanders. *Environmental Toxicology and Chemistry*. 21(4):807-815. [ABSTRACT](#) 
 17. **Lynn SG**, SS Kilham, DA Kreeger and SJ Interlandi. 2000. Effects of nutrient availability on the biochemical and elemental stoichiometry of the freshwater diatom *Stephanodiscus minutulus* (Bacillariophyceae). *Journal of Phycology*. 36(3):510-522. [ABSTRACT](#) 
 18. Kilham SS, DA Kreeger, **SG Lynn**, CE Goulden and L Herrera. 1998. COMBO: A defined freshwater culture medium for algae and zooplankton. *Hydrobiologia*. 377:147-159. [ABSTRACT](#) 
 19. Kilham SS, DA Kreeger, CE Goulden and **SG Lynn**. 1997. Effects of algal food quality on fecundity and population growth rates of *Daphnia*. *Freshwater Biology*. 38(3):639-647. [ABSTRACT](#) 
 20. Kilham SS, DA Kreeger, CE Goulden and **SG Lynn**. 1997. Effects of nutrient limitation on biochemical constituents of *Ankistrodesmus falcatus*. *Freshwater Biology*. 38(3):591-596. [ABSTRACT](#) 
 21. Kreeger DA, CE Goulden, SS Kilham, **SG Lynn**, S Datta and SJ Interlandi. 1997. Seasonal changes in the biochemistry of lake seston. *Freshwater Biology*. 38(3):539-554. [ABSTRACT](#) 

Non-Peer Reviewed Publications

1. US EPA. 2016. Weight of Evidence in Ecological Assessment. Risk Assessment Forum. Technical Panel Member. EPA/100/R-16/001. [LINK](#) 
2. Lynn SG, JJ LaPres and K Studer-Rabeler. 2011. Oxygen Monitoring in Cell Culture. Genetic Engineering News. 31(6):52-53. [LINK](#) 
3. Lynn SG and JJ LaPres. 2009. Online Oxygen Monitoring in Cell Culture: Effects of mitochondrial modulators on O₂ dynamics of mammalian cells. PreSens Precision Sensing Application Note. [LINK](#) 
4. Lynn SG. 2009. Identification Manual of Fishes found in Old Woman Creek (OWC) National Estuarine Research Reserve (NERR) and State Nature Preserve (SNP). Old Woman Creek Educational Resource. [LINK](#) 

Scientific Presentations with Abstracts (* designates presenting author)

1. SG Lynn*. **Society of Toxicology (SOT) 61st Annual Meeting** at San Diego, California. March 27-31, 2022. Invited Roundtable Discussant: Cross-species extrapolation: Opportunities in a 21st century regulatory non-animal testing world. Platform: Using New Approach Methodologies (NAMs) to extrapolate across species for endocrine disruptor screening and chemical safety assessments.
2. SG Lynn*, RJ Bever, KL Hamernik, KM Markey, SR Matten. **Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting (SETAC SciCon4)**. November 14-18, 2021. Platform presentation: US EPA Endocrine Disruptor Screening Program (EDSP) update on implementation of NAMs.
3. S Vliet*, SG Lynn, K Markey, CA LaLone. **Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting (SETAC SciCon4)**. November 14-18, 2021. Platform presentation: Bridging the gap: Integrating systematic review strategies and new approach methodologies for the cross-species extrapolation of endocrine targets.
4. P Ceger*, N Garcia-Reyero, D Allen, E Arnold, A Bergdale, R Bloom, JC Brennan, C Clarke, D Denton, W Eckel, K Eisenreich, K Fay, J Hamm, PFP Henry, K Horak, W Hunter, D Judkins, P Klein, N Kleinstreuer, K Koehn, CA LaLone, JP Laurenson, JK. Leet, A Lowit, SG Lynn, T Norberg-King, EJ Perkins, EJ Petersen, L Phillips, BA Rattner, CS Sprankle, T Steeger, JE Warren, S Winfield, E Odenkirchen. **Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting (SETAC SciCon4)**. November 14-18, 2021. Poster presentation: Determination of ecotoxicology testing needs among selected United States federal agencies.
5. K Markey*, K Fay, A Kirk, SG Lynn, A Shapiro, S Vilet, P Baumgartner, R Chew, D Henderson, A Adetona, M Austin, P Chen, M Gauthier, J Kay, M Lancaster, A Thomas, S Edwards, M Angrish. **American Society for Cellular and Computational Toxicology (ASCCT) 10th Annual Meeting**. October 12-14, 2021. Platform presentation: Machine learning pipelines to support automation of literature systematic methods for the development of alternative toxicological methods.
6. SG Lynn*, I.R. Schutz, BA Wetmore, SR Matten, SR Black. **Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting (SETAC SciCon2)**. November 15-19, 2020. Platform presentation: Measurement and comparison of plasma protein binding, fraction unbound (f_u), using plasma from humans, rats, and rainbow trout.
7. A Kamel*, S Matten, SG Lynn, J Wolf, D Fort. **Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting (SETAC SciCon2)**. November 15-19, 2020. Poster presentation: Amphibian Metamorphosis Assays of five chemicals to determine interference with the function of the hypothalamic-pituitary thyroid axis in *Xenopus laevis*.
8. S Vliet*, SG Lynn, K Markey, CA LaLone. **Society of Environmental Toxicology and Chemistry (SETAC) North America Annual Meeting (SETAC SciCon2)**. November 15-19, 2020. Platform presentation: Gathering evidence of endocrine pathway conservation for cross-species extrapolation using new approach methods.
9. S Thoms*, C Maurice, B Shephard, D Charters, SG Lynn, J Mills, B Pluta, B Sanchez, T Gibeau, B Thomas. **Society of Environmental Toxicology and Chemistry (SETAC) Annual Meeting (SETAC SciCon2)**. November 15-19, 2020. Poster presentation: Developing ecological screening values (ESVs) in surface water, sediment, and soil.
10. SR Black, JW Nichols, KA Fay, SR Matten, SG Lynn*. **Society of Environmental Toxicology and Chemistry (SETAC) North America 40th Annual Meeting** at Toronto, Canada. November 3-7, 2019. Platform presentation: Evaluation and comparison of intrinsic metabolic clearance using isolated hepatocytes from humans, rats, and rainbow trout.
11. SR Matten, A Kamel, SG Lynn*. **Society of Environmental Toxicology and Chemistry (SETAC) North America 40th Annual Meeting** at Toronto, Canada. November 3-7, 2019. Platform presentation: Medaka Extended One-Generation Reproduction Test (MEOGRT): 2-Ethylhexyl 4-hydroxybenzoate, Bisphenol A, and Dibutyl phthalate.
12. S Vliet*, K Markey, SG Lynn, CA LaLone. **Society of Environmental Toxicology and Chemistry (SETAC) Europe 30st Annual Meeting (SETAC SciCon)**. May 3-7, 2020. Poster presentation: A weight-of-evidence approach for androgen receptor conservation across vertebrate species.

13. Hamernik K*, SR Matten, RJ Bever, A Kamel, **SG Lynn**. **Society of Toxicology (SOT) 58th Annual Meeting** at Baltimore, MD. March 10-14, 2019. Poster presentation: Comparative analysis of potential effects of triclosan in three model fish species and *Xenopus laevis*.
14. **SG Lynn***, RJ Bever, KL Hamernik, AS Kamel, SR Matten. **Society of Environmental Toxicology and Chemistry (SETAC) North America 39th Annual Meeting** at Sacramento, CA. November 4-8, 2018. Platform presentation: Cross species comparative analysis of Fish Short Term Reproduction Assay (FSTRA) data for the Endocrine Disruptor Screening Program (EDSP).
15. Kamel A*, S Matten, **SG Lynn**. **Society of Environmental Toxicology and Chemistry (SETAC) North America 39th Annual Meeting** at Sacramento, CA. November 4-8, 2018. Platform presentation: Comparison between the sensitivities of US EPA Endocrine Disruptor Screening Program's Tier 1 and Tier 2 Assays for perturbation to the hypothalamic-pituitary-thyroid axis in *Xenopus laevis* amphibians.
16. **SG Lynn***, SR Matten, and SR Black. **Society of Environmental Toxicology and Chemistry (SETAC) North America 38th Annual Meeting** at Minneapolis, MN. November 12-16, 2017. Platform presentation: Cross species comparative analysis of in vitro assays supporting IVIVE for the EDSP.
17. R Judson, A Dixon, N Kleinstreuer, W Casey, DR Bergfelt, TD Green, R Kent, **SG Lynn**, L Touart, and R Thomas. **Society of Toxicology (SOT) 54th Annual Meeting** at San Diego, CA USA. March 22-26, 2015. Platform presentation: Use of Computational Toxicology for Integrated Bioactivity-Exposure Prioritization of the EDSP Chemical Universe.
18. **SG Lynn***, MW Hornung, ME Gilbert, SJ Degitz and KM Crofton. **Society of Environmental Toxicology and Chemistry (SETAC) North America 35th Annual Meeting** at Vancouver, Canada. November 9-13, 2014. Poster presentation: Strengthening the Ability to Screen for Thyroid Disrupting Chemicals under EDSP.
19. R Judson, A Dixon, N Kleinstreuer, W Casey, K Crofton, **SG Lynn**, J Wambaugh, and R Thomas. **US EPA's Chemical Safety Research: Second ToxCast Data Summit** at EPA Research Triangle Park Campus, NC USA. September 29-30, 2014. Poster presentation: Endocrine Bioactivity and Exposure-Based Prioritization and Screening.
20. S Dinehart*, SL Hicks, RK Kropp and **SG Lynn**. **Society of Environmental Toxicology and Chemistry (SETAC) North America Focused Topic Meeting: Endocrine Disruption** at Research Triangle Park, NC USA. February 4-6, 2014. Poster presentation: Performance of Larval Amphibian Growth and Development Assays using *Xenopus laevis* following the Organisation for Economic Co-operation and Development Draft Guideline.
21. **SG Lynn***, DR Bergfelt and AE Dixon. **Society of Environmental Toxicology and Chemistry (SETAC) North America 34th Annual Meeting** at Nashville, TN USA. November 17-21, 2013. Poster presentation: EDSP21: Activity testing using *in vitro* approaches covering multiple endocrine pathways.
22. LW Touart*, **SG Lynn** and MK Manibusan. **Society of Environmental Toxicology and Chemistry (SETAC) North America 34th Annual Meeting** at Nashville, TN USA. November 17-21, 2013. Platform presentation: Validation of EPA's EDSP Tier 2 Ecotoxicity Test Methods.
23. MD Kirtland*, M Eckstein, DK Peyton, BF Brammell, AJ Wigginton, and **SG Lynn**. **National Collegiate Honors Council** at New Orleans, LA USA. November 6-10, 2013. Poster presentation: Gene expression in native sunfish as a biomarker of contaminant exposure.
24. MD Kirtland*, M Eckstein, DK Peyton, BF Brammell, AJ Wigginton and **SG Lynn**. **Southern Regional Honors Conference** at Louisville, KY USA. April 4-6, 2013. Poster presentation: Gene expression in native sunfish as a biomarker of contaminant exposure.
25. MD Kirtland*, M Eckstein, DK Peyton, BF Brammell, AJ Wigginton and **SG Lynn**. **Kentucky Academy of Science (KAS) 98th Annual Meeting** at Richmond, KY USA. October 19-20, 2012. Poster presentation: Gene expression in native sunfish as a biomarker of contaminant exposure.
26. **SG Lynn***. **Society for In Vitro Biology (SIVB) World Congress** at Bellevue, WA USA. June 3-7, 2012. Invited Platform presentation: EDSP21: The Incorporation of *In Silico* Models and *In Vitro* High Throughput Assays in the Endocrine Disruptor Screening Program (EDSP) for Prioritization and Screening.
27. MD Kirtland*, BF Brammell, DK Peyton, KR Barnett, JC Ferrell, **SG Lynn** and AJ Wigginton. **Morehead State University's Student Scholarship Annual Celebration** at Morehead, KY USA. April 25, 2012. Poster presentation: Use of gene expression in caged zebrafish (*Danio rerio*) and native sunfish (*Lepomis*) as a biomarker of contaminant exposure.
28. BF Brammell, DK Peyton, KR Barnett, JC Ferrell, J Walker, **SG Lynn***, and AJ Wigginton. **Society of Environmental Toxicology and Chemistry (SETAC) North America 32nd Annual Meeting** at Boston, MA USA. November 12-18, 2011. Poster presentation: Use of gene expression in longear sunfish (*Lepomis megalotis*) and green sunfish (*Lepomis cyanellus*) as a biomarker of polychlorinated biphenyl and metal exposure.
29. BF Brammell*, DK Peyton, KR Barnett, JC Ferrell, **SG Lynn** and AJ Wigginton. **Kentucky Academy of Science (KAS) 97th Annual Meeting** at Murray, KY USA. Nov. 4-5, 2011. Poster presentation: Use of gene expression in caged zebrafish (*Danio rerio*) and native sunfish (*Lepomis*) as a biomarker of contaminant exposure.

30. DM Tappenden, **SG Lynn**, RB Crawford, NE Kaminski, RS Thomas and JJ LaPres*. **Society of Toxicology (SOT) 50th Annual Meeting** at Washington, DC USA. March 6-10, 2011. Poster presentation: The Aryl Hydrocarbon Receptor Interacts with ATP5 α 1, a Subunit of the ATP Synthase Complex, and Modulates Mitochondrial Function
31. AL Forgacs*, LD Burgoon, **SG Lynn**, JJ LaPres and TR Zacharewski. **Society of Toxicology (SOT) 49th Annual Meeting** at Salt Lake City, Utah USA. March 7-11, 2010. Platform presentation: Effects of TCDD on the expression of nuclear encoded mitochondrial genes.
32. **SG Lynn***, JA Malison, WJ Birge and BS Shepherd. **International Society of Environmental Bioindicators (ISEBI) 14th Annual Meeting** at Baltimore, Maryland USA. April 24-26, 2006. Invited platform presentation: Developing molecular tools in yellow perch: Effects of 17 β -estradiol on key endocrine genes.
33. **SG Lynn***, JA Malison, BS Shepherd and WJ Birge. **Society of Environmental Toxicology and Chemistry (SETAC) North America 26th Annual Meeting** at Baltimore, Maryland USA. November 13-17, 2005. Platform presentation: Cloning, tissue-specific expression and responses to 17 β -estradiol of key endocrine genes in yellow perch (*Perca flavescens*).
34. **SG Lynn***. **American Society of Ichthyology and Herpetology (ASIH) 85th Annual Meeting** at Tampa, Florida USA. July 6-11, 2005. Platform presentation: Seasonal expression of key endocrine genes in Lake Erie yellow perch (*Perca flavescens*).
35. **SG Lynn***, DJ Price, WJ Birge and SS Kilham. **Society of Environmental Toxicology and Chemistry (SETAC) Europe 14th Annual Meeting** at Prague, Czech. April 18-23, 2004. Poster presentation: Uptake of PCB Congener 2,2',6,6'-Tetrachlorobiphenyl in Nutrient Controlled Diatoms (*Stephanodiscus minutulus*) and Transfer to a Zooplankton (*Daphnia pulicaria*).
36. **SG Lynn*** and BS Shepherd. **World Aquaculture Society (WAS) Triennial Meeting** at Honolulu, Hawaii USA. March 1-5, 2004. Invited platform presentation: Cloning and expression studies of pituitary endocrine genes in yellow perch (*Perca flavescens*).
37. **SG Lynn***, GM Weber and BS Shepherd. **Kentucky Academy of Science (KAS) 88th Annual Meeting** at Highland Heights, Kentucky USA. November 7-9, 2002. Invited platform presentation: Complementary DNA cloning and expression studies of the pituitary hormones growth hormone, prolactin, and somatolactin in the yellow perch (*Perca flavescens*).
38. **SG Lynn*** and BS Shepherd. **Ohio Valley Chapter (OVC) of the Society of Environmental Toxicology and Chemistry (SETAC) North America 19th Annual Meeting** at Louisville, Kentucky USA. May 16-17, 2002. Poster presentation: Herbicide body burdens and endocrine profiles of yellow perch in Old Woman Creek Estuarine Research Reserve and Lake Erie.
39. **SG Lynn*** and C Lindle. **American Society of Ichthyology and Herpetology (ASIH) 81st Annual Meeting** at University Park, Pennsylvania USA. July 5-10, 2001. Poster presentation: Habitat use by *Rana angolensis* along the Dodwe River in the East Usambara Mountains, Tanzania.
40. AE McDaniels* and **SG Lynn**. **American Society for Microbiology (ASM) 101st Annual Meeting** at Orlando, Florida USA. May 20-24, 2001. Poster presentation: Recovery of *Helicobacter pylori* from water by immunomagnetic capture.
41. **SG Lynn***, JS Rehage, A Sih and BD Palmer. **Society of Environmental Toxicology and Chemistry (SETAC) North America 21st Annual Meeting** at Nashville, Tennessee USA. November 12-16, 2000. Platform presentation: Effects of triphenyltin on growth and development in the salamander *Ambystoma barbouri*.
42. **SG Lynn*** and JS Spromberg. **American Society of Ichthyology and Herpetology (ASIH) 79th Annual Meeting** at University Park, Pennsylvania USA. June 24-30, 1999. Poster presentation: The bioaccumulation of organic xenobiotics in frogs: A physiologically-based toxicokinetic (PBTK) model.
43. **SG Lynn***, SS Kilham, DA Kreeger, and CE Goulden. **Pocono Comparative Lakes Program (PCLP) Annual Meeting** at Lake Ariel, Pennsylvania USA. October 18-19, 1996. Platform presentation: Effects of algal food quality on zooplankton fecundity and population growth rates.
44. **SG Lynn***, SS Kilham, DA Kreeger, and CE Goulden. **Pocono Comparative Lakes Program (PCLP) Annual Meeting** at Lake Ariel, Pennsylvania USA. October 6-7, 1995. Platform presentation: Effects of nutrient limitation on biochemical constituents of *Ankistrodesmus falcatus*.

Professional Society Participation

- Co-chair of the “New Approach Methodologies (NAMs) to evaluate endocrine pathways – test development through regulation” session at the SETAC North America Annual Meeting (SETAC SciCon4). November 14-18, 2021.
- Co-chair of the “New Approach Methodologies for assessing endocrine disrupting properties – AOPs, 3Rs, and population level approaches” session at the SETAC North America Annual Meeting (SETAC SciCon2). November 14-19, 2020.
- Co-chair of the “In vitro to in vivo extrapolations: advances and applications for risk assessment” session at the SETAC North America 38th Annual Meeting at Minneapolis, MN. November 12-16, 2017.

- Co-chair of the “Reverse Toxicokinetics in Aquatic Organisms” session at the SETAC North America 36th Annual Meeting at Salt Lake City, Utah. November 1-5, 2015.
- Co-chair of the “Evaluating Endocrine Disrupting Chemicals: Identifying Species Differences and Approaches for Cross-Species Extrapolation” platform, interactive platform and poster sessions at the SETAC North America 35th Annual Meeting at Vancouver, Canada. November 9-13, 2014.
- Liaison on the SETAC NA Science Committee (2013-present)
- Liaison on the SETAC NA Meeting Committee (2018-present)
- Member of SETAC NA Membership Committee (2013- 2018)
- Chair of the CPRC SETAC Communications Steering Committee. September 2013 to 2015.
- Elected to Board of Directors of CPRC SETAC for two three-year terms (2013 – 2015; 2018-2020).

Presentations without Abstracts

- **SG Lynn. Environment Science and Technology (ENST) Departmental Seminar, University of Maryland** at College Park, MD. March 11th, 2015. Invited speaker: U.S. EPA Endocrine Disruptor Screening Program: Use of Computational Tools in Prioritization and Screening.
- **SG Lynn. Ministry of the Environment Japan (MOEJ), EXTEND2010 Seminar** at Tokyo, Japan. January 15, 2015. Invited speaker: U.S. EPA Endocrine Disruptor Screening Program: Use of Computational Tools in Prioritization and Screening.
- **SG Lynn. 8th US/Japan Bilateral Meeting** at Washington DC. September 18th, 2012. Invited Speaker: Status of Medaka Multigeneration Test (MMT) Interlaboratory Validation.
- **SG Lynn. 8th US/Japan Bilateral Meeting** at Washington DC. September 18th, 2012. Invited Speaker: Status of Larval Amphibian Growth and Development Assay (LAGDA) Interlaboratory Validation.

Awards, Fellowships and Grants


- **U.S. Environmental Protection Agency (EPA) Silver Medal for Superior Service.** Acknowledgement for work performed in support of the EDSP. July 2014
- **U.S. Environmental Protection Agency (EPA) Superior Accomplishment Recognition Award.** Internal EPA achievement award which recognizes exceptional work with monetary and time off compensation. April 2012.
- **National Research Council (NRC) Research Associateship Program (RAP) Award.** Internationally competitive award to outstanding scientists to conduct research at a sponsoring federal laboratory or affiliated institution. US Environmental Protection Agency Duluth, MN. January 2011. Declined.
- **Research Council of Norway (RCN) Project 196442 Collaborating Partner** “Climate change, emerging pollutants and reproduction dysfunction in fish: Linking climate change with pollution and biological consequences” March 2010 to 2013 ([link](#))
- **Council for International Exchange of Scholars US Norway Fulbright Scholar Fellowship.** Nationally competitive fellowship awarded to US scholars chosen for their academic merit and leadership potential to conduct research and increase understanding in other countries. January to July 2010.
- **Elsevier/Society for Environmental Toxicology and Chemistry Best Student Platform Presentation Award, Co-Winner.** Awarded to best student presentation at the national SETAC meeting. November 2005.
- **Ohio Valley Chapter (OVC) Society for Environmental Toxicology and Chemistry Student Travel Award.** Encourages participation of student members in annual SETAC meeting. November 2005.
- **Society for Environmental Toxicology and Chemistry Student Travel Award.** Encourages participation of student members in annual SETAC meeting. November 2005.
- **University of Kentucky Graduate School Commonwealth Research Award.** Supports outstanding graduate students to present cutting-edge research at the premier conference of the student’s discipline. Spring 2004.
- **University of Kentucky Graduate School Dissertation Enhancement Award.** Supports doctoral research being pursued at a site distant from campus for post-qualifying examination student. July to December 2003.
- **American Museum of Natural History Lerner-Gray Fund for Marine Research Award.** Analysis of Leatherback sea turtle (*Dermochelys coriacea*) eggs for potential endocrine disrupting compounds (EDCs), including pesticides, PCBs, PBBs and PBDEs. August 2002 to July 2003.
- **University of Kentucky Graduate School Graduate Student Incentive Program Fellowship.** Awards graduate student recipients of nationally competitive grants. June 2002 to May 2005.
- **National Estuarine Research Reserve Graduate Research Fellowship.** Atrazine body burdens and endocrine correlates in channel catfish (*Ictalurus punctatus*) and yellow perch (*Perca flavescens*) from Old Woman Creek (OWC) National Estuarine Research Reserve and Lake Erie. June 2002 to May 2005.
- **University of Kentucky Department of Biology Ribble Award.** Sponsored recipient for a Tropical Biology Association field ecology course in Tanzania. September 1999.

- **University of Kentucky Graduate School Academic Year Fellowship.** Supplemental stipend award based on academic and professional qualifications. August 1998 to May 1999.

Academic Teaching, Service and Mentorship

- **16th Annual Gemstone Honors Program Thesis Conference** April 2015
Expert Discussant for Team Bass: Appropriateness of Largemouth Bass (*Micropterus salmoides*) as a model species for detection of endocrine disruption
- **Department of Biology, University of Kentucky**
Teaching assistant for animal physiology, genetics, comparative anatomy, introductory biology lab
- **Student Support Services, University of Kentucky**
Tutor in biology for disadvantaged undergraduate students
- **Department of Bioscience, Drexel University**
Teaching assistant for aquatic ecology, terrestrial ecology, introductory biology lab

EPA Science Projects

- Panel moderator for the NTP and US EPA sponsored meeting titled “*In Vitro* to *In Vivo* Extrapolation for High Throughput Prioritization and Decision Making” held in Research Triangle Park, NC February 17-18, 2016
- Risk Assessment Forum (RAF) volunteer to provide scientific and technical input to the Weight of Evidence guidance for Ecological Risk Assessment.
- Lead scientist on interlaboratory validation of the Medaka Extended One Generation Reproduction Test (MEOGRT) EDSP Tier 2 test guideline.
- Lead scientist on the interlaboratory validation of the Larval Amphibian Growth and Development Assay (LAGDA) EDSP Tier 2 test guideline leading up to the FIFRA SAP.
- Primary and secondary reviewer for EDSP Tier 1 List 1 test order submission data.
- Presenting scientist and primary co-author on the white paper and presentation to the Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP) on **Continuing Development of Alternative High-Throughput Screens to Determine Endocrine Disruption, Focusing on Androgen Receptor, Steroidogenesis, and Thyroid Pathways**. November to November 28-29, 2017. ([EPA-HQ-OPP-2017-0214](#))
- Contributing scientist on the white paper and presentation to the Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP) on **Integrated Endocrine Activity and Exposure-based Prioritization and Screening**. December 2 to December 5, 2014. ([EPA-HQ-OPP-2014-0614](#))
- Primary co-author and contributing scientist on the white paper and presentation to the Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP) on **Weight-of-Evidence: Evaluating Results of EDSP Tier 1 Screening**. June 30 to August 2, 2013. ([EPA-HQ-OPP-2013-0230](#))
- Primary co-author and contributing scientist on the white paper and presentation to the Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP) on **Endocrine Disruptor Screening Program (EDSP) Tier 2 Ecotoxicity Tests**. June 25 to 28, 2013. ([EPA-HQ-OPP-2013-0182](#))
- Primary co-author and contributing scientist on the white paper and presentation to the Federal Insecticide, Fungicide, and Rodenticide Act Scientific Advisory Panel (FIFRA SAP) on **Prioritizing the Universe of Endocrine Disruptor Screening Program (EDSP) Chemicals Using Computational Toxicology Tools**. January 29 to February 1, 2013. ([EPA-HQ-OPP-2012-0818](#))
- Primary co-author and co-editor on the Endocrine Disruptor Screening Program (EDSP) policy document “**The EDSP Universe of Chemicals and General Validation Principles**” published November 27th, 2012 [LINK](#) 

Volunteer/Community Service, Miscellaneous Achievements and Other Synergistic Activities

- Volunteer Judge for MacFarland Middle School Science Fair in Washington, DC. December 14, 2011
- 2nd place Faculty/Staff category for the 10th Annual MSU Global Focus photography contest. November 17th, 2008 [LINK](#)
- Time Magazine’s “2006 Person of the Year” December 13th, 2006 [LINK](#)
- Volunteer Judge for the 3rd Annual Kentucky Science and Engineering Fair in Richmond, KY. April 2nd, 2005
- Volunteer Judge for the 1st Annual Kentucky Science and Engineering Fair in Richmond, KY. March 27th, 2004
- Volunteer Judge for the Glendover Elementary School Science Fair in Lexington, KY. January 22nd, 2004
- Volunteer Judge for the 53rd International Science and Engineering Fair in Louisville, KY. May 12-18th, 2002
- PADI Open Water Diver SCUBA certification, October 13th, 1999

Published GenBank Sequences

- **Lynn SG** and BS Shepherd. 2007. *Perca flavescens* ovarian aromatase (*cyp19a1a*) mRNA. [DQ984126](#).
- **Lynn SG** and BS Shepherd. 2007. *Perca flavescens* estrogen receptor β a (*esr2a*) mRNA. [DQ984125](#).

- **Lynn SG**, WJ Birge and BS Shepherd. 2007. *Perca flavescens* estrogen receptor α (*esr1*) mRNA. [DQ984124](#).
- **Lynn SG** and BS Shepherd. 2007. *Perca flavescens* insulin-like growth factor-II (IGF-II) mRNA. [DQ984123](#).
- **Lynn SG**, AR Scholik, HY Yan and BS Shepherd. 2004. *Pimephales promelas* heat shock cognate 70 kDa protein (HSP70) mRNA. [AY538777](#).
- Struewing IT, **SG Lynn** and BS Shepherd. 2003. *Ambystoma barbouri* growth hormone (GH) mRNA. [AY333114](#).
- **Lynn SG**, IT Struewing and BS Shepherd. 2003. *Ambystoma barbouri* prolactin (PRL) precursor mRNA. [AY332494](#).
- **Lynn SG**, JJ Arambasik and BS Shepherd. 2003. *Perca flavescens* β -actin mRNA. [AY332493](#).
- **Lynn SG** and BS Shepherd. 2003. *Perca flavescens* insulin-like growth factor-Ib (IGF-Ib) precursor mRNA. [AY332492](#).
- **Lynn SG**, CP Bennett and BS Shepherd. 2003. *Perca flavescens* prolactin (PRL) precursor mRNA. [AY332491](#).
- **Lynn SG** and BS Shepherd. 2003. *Perca flavescens* somatolactin (SL) precursor mRNA. [AY332490](#).

Professional Development Courses

- Statistics 2: ANOVA and Regression. The SAS Institute. February 19-21st, 2014.
- Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression. The SAS Institute. August 15-16th, 2013.
- Basic Project Management I (FAC-102). The Training Institute of Washington D.C. August 16-18th, 2011
- Certification in "Responsible Conduct of Research and Scholarship" from MSU Graduate School. October 5th, 2009
[LINK](#)

Ad-Hoc Reveiwer

- Comparative Biochemistry and Physiology –A,B,C; Ecotoxicology and Environmental Safety; Environmental Toxicology and Chemistry; General and Comparative Endocrinology; Journal of Comparative Physiology – B; Molecular Biology Reports; Toxicology; Toxicology