

## Scott G. Lynn

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### Academic Preparation

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

December 2006

Dissertation title: 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 title: 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.**

Water quality and soil resources specialization.

### 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

**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

**US Environmental Protection Agency, Office of Science Coordination and Policy**

Apr 2015 to Jun 2016

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

**University of Maryland, Department of Environmental Sciences and Technology**

Jan 2015 to Jun 2020

Lecturer and Special Graduate Faculty

- Primary co-instructor for ENST 445 Ecological Risk Assessment

**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 2008 to Dec 2009

Visiting Research Associate investigating the molecular and biochemical mechanisms of hypoxia

**Michigan State University, Department of Biochemistry and Molecular Biology**

Nov 2006 to Oct 2008



NIEHS post-doctoral fellow through the Center for Integrative Toxicology

## Peer Reviewed Publications

- 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. *Integr Environ Assess Manag*. Online ahead of print. [ABSTRACT](#)
- 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](#)
- Bell SM, X Chang, JF Wambaugh, DG Allen, M Bartels, KLR Brouwer, WM Casey, N Choksi, SS Ferguson, G Fraczkiewicz, AM Jarabek, A Ke, A Lumen, **SG Lynn**, A Pains, 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. *Toxicol In Vitro*. 47:213-227. [ABSTRACT](#)
- 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 $\alpha$  rescues the HIF1 $\alpha$  deletion phenotype of neonatal respiratory distress in mice. *PLoS ONE*. 10(9):e0139270. [ABSTRACT](#)
- 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](#)
- Tappenden DM, **SG Lynn**, A Vengellur, RB Crawford, NE Kaminski, RS Thomas and JJ LaPres. 2011. The aryl hydrocarbon receptor interacts with ATP5 $\alpha$ 1, a subunit of the ATP synthase complex, and modulates mitochondrial function. *Toxicology and Applied Pharmacology*. 254(3):299-310. [ABSTRACT](#)
- **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](#)
- 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](#)
- 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.
- **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](#)
- **Lynn SG**, WJ Birge and BS Shepherd. 2008. Molecular characterization and sex-specific tissue expression of estrogen receptor  $\alpha$  (*esr1*), estrogen receptor  $\beta$  (*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](#)
- **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](#)
- **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](#)
- **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.
- 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](#)
- **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](#)
- 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](#)
- 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](#)
- 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](#)
- 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

- **Lynn SG**, JJ LaPres and K Studer-Rabeler. 2011. Oxygen Monitoring in Cell Culture. *Genetic Engineering News*. 31(6):52-53. [LINK](#)

- **Lynn SG** and JJ LaPres. 2009. Online Oxygen Monitoring in Cell Culture: Effects of mitochondrial modulators on O<sub>2</sub> dynamics of mammalian cells. PreSens Precision Sensing Application Note. [LINK](#) 
- **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)

- **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.
- 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.
- 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.
- 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) 10<sup>th</sup> 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.
- **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<sub>u</sub>), using plasma from humans, rats, and rainbow trout.
- 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*.
- 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.
- 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.
- SR Black, JW Nichols, KA Fay, SR Matten, **SG Lynn\***. **Society of Environmental Toxicology and Chemistry (SETAC) North America 40<sup>th</sup> 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.
- SR Matten, A Kamel, **SG Lynn\***. **Society of Environmental Toxicology and Chemistry (SETAC) North America 40<sup>th</sup> 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.
- S Vliet\*, K Markey, **SG Lynn**, CA LaLone. **Society of Environmental Toxicology and Chemistry (SETAC) Europe 30<sup>st</sup> Annual Meeting (SETAC SciCon)**. May 3-7, 2020. Poster presentation: A weight-of-evidence approach for androgen receptor conservation across vertebrate species.
- Hamernik K\*, SR Matten, RJ Bever, A Kamel, **SG Lynn**. **Society of Toxicology (SOT) 58<sup>th</sup> 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*.
- **SG Lynn\***, RJ Bever, KL Hamernik, AS Kamel, SR Matten. **Society of Environmental Toxicology and Chemistry (SETAC) North America 39<sup>th</sup> 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).
- Kamel A\*, S Matten, **SG Lynn**. **Society of Environmental Toxicology and Chemistry (SETAC) North America 39<sup>th</sup> 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.

- **SG Lynn\***, SR Matten, and SR Black. **Society of Environmental Toxicology and Chemistry (SETAC) North America 38<sup>th</sup> Annual Meeting** at Minneapolis, MN. November 12-16, 2017. Platform presentation: Cross species comparative analysis of in vitro assays supporting IVIVE for the EDSP.
- 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) 54<sup>th</sup> 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.
- **SG Lynn\***, MW Hornung, ME Gilbert, SJ Degitz and KM Crofton. **Society of Environmental Toxicology and Chemistry (SETAC) North America 35<sup>th</sup> Annual Meeting** at Vancouver, Canada. November 9-13, 2014. Poster presentation: Strengthening the Ability to Screen for Thyroid Disrupting Chemicals under EDSP.
- 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.
- 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.
- **SG Lynn\***, DR Bergfelt and AE Dixon. **Society of Environmental Toxicology and Chemistry (SETAC) North America 34<sup>th</sup> Annual Meeting** at Nashville, TN USA. November 17-21, 2013. Poster presentation: EDSP21: Activity testing using *in vitro* approaches covering multiple endocrine pathways.
- LW Touart\*, **SG Lynn** and MK Manibusan. **Society of Environmental Toxicology and Chemistry (SETAC) North America 34<sup>th</sup> Annual Meeting** at Nashville, TN USA. November 17-21, 2013. Platform presentation: Validation of EPA's EDSP Tier 2 Ecotoxicity Test Methods.
- 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.
- 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.
- MD Kirtland\*, M Eckstein, DK Peyton, BF Brammell, AJ Wigginton and **SG Lynn**. **Kentucky Academy of Science (KAS) 98<sup>th</sup> Annual Meeting** at Richmond, KY USA. October 19-20, 2012. Poster presentation: Gene expression in native sunfish as a biomarker of contaminant exposure.
- **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.
- 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.
- BF Brammell, DK Peyton, KR Barnett, JC Ferrell, J Walker, **SG Lynn\***, and AJ Wigginton. **Society of Environmental Toxicology and Chemistry (SETAC) North America 32<sup>nd</sup> 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.
- BF Brammell\*, DK Peyton, KR Barnett, JC Ferrell, **SG Lynn** and AJ Wigginton. **Kentucky Academy of Science (KAS) 97<sup>th</sup> 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.
- DM Tappenden, **SG Lynn**, RB Crawford, NE Kaminski, RS Thomas and JJ LaPres\*. **Society of Toxicology (SOT) 50<sup>th</sup> Annual Meeting** at Washington, DC USA. March 6-10, 2011. Poster presentation: The Aryl Hydrocarbon Receptor Interacts with ATP5 $\alpha$ 1, a Subunit of the ATP Synthase Complex, and Modulates Mitochondrial Function
- AL Forgacs\*, LD Burgoon, **SG Lynn**, JJ LaPres and TR Zacharewski. **Society of Toxicology (SOT) 49<sup>th</sup> 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.
- **SG Lynn\***, JA Malison, WJ Birge and BS Shepherd. **International Society of Environmental Bioindicators (ISEBI) 14<sup>th</sup> Annual Meeting** at Baltimore, Maryland USA. April 24-26, 2006. Invited platform presentation: Developing molecular tools in yellow perch: Effects of 17 $\beta$ -estradiol on key endocrine genes.

- **SG Lynn\***, JA Malison, BS Shepherd and WJ Birge. **Society of Environmental Toxicology and Chemistry (SETAC) North America 26<sup>th</sup> Annual Meeting** at Baltimore, Maryland USA. November 13-17, 2005. Platform presentation: Cloning, tissue-specific expression and responses to 17 $\beta$ -estradiol of key endocrine genes in yellow perch (*Perca flavescens*).
- **SG Lynn\***. **American Society of Ichthyology and Herpetology (ASIH) 85<sup>th</sup> 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*).
- **SG Lynn\***, DJ Price, WJ Birge and SS Kilham. **Society of Environmental Toxicology and Chemistry (SETAC) Europe 14<sup>th</sup> 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 pulex*).
- **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*).
- **SG Lynn\***, GM Weber and BS Shepherd. **Kentucky Academy of Science (KAS) 88<sup>th</sup> 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*).
- **SG Lynn\*** and BS Shepherd. **Ohio Valley Chapter (OVC) of the Society of Environmental Toxicology and Chemistry (SETAC) North America 19<sup>th</sup> 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.
- **SG Lynn\*** and C Lindle. **American Society of Ichthyology and Herpetology (ASIH) 81<sup>st</sup> 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.
- AE McDaniels\* and **SG Lynn**. **American Society for Microbiology (ASM) 101<sup>st</sup> Annual Meeting** at Orlando, Florida USA. May 20-24, 2001. Poster presentation: Recovery of *Helicobacter pylori* from water by immunomagnetic capture.
- **SG Lynn\***, JS Rehage, A Sih and BD Palmer. **Society of Environmental Toxicology and Chemistry (SETAC) North America 21<sup>st</sup> Annual Meeting** at Nashville, Tennessee USA. November 12-16, 2000. Platform presentation: Effects of triphenyltin on growth and development in the salamander *Ambystoma barbouri*.
- **SG Lynn\*** and JS Spromberg. **American Society of Ichthyology and Herpetology (ASIH) 79<sup>th</sup> 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.
- **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.
- **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 38<sup>th</sup> Annual Meeting at Minneapolis, MN. November 12-16, 2017.
- Co-chair of the “Reverse Toxicokinetics in Aquatic Organisms” session at the SETAC North America 36<sup>th</sup> 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 35<sup>th</sup> 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 11<sup>th</sup>, 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. 8<sup>th</sup> US/Japan Bilateral Meeting** at Washington DC. September 18<sup>th</sup>, 2012. Invited Speaker: Status of Medaka Multigeneration Test (MMT) Interlaboratory Validation.
- **SG Lynn. 8<sup>th</sup> US/Japan Bilateral Meeting** at Washington DC. September 18<sup>th</sup>, 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**

- **16<sup>th</sup> 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 27<sup>th</sup>, 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
- 2<sup>nd</sup> place Faculty/Staff category for the 10<sup>th</sup> Annual MSU Global Focus photography contest. November 17<sup>th</sup>, 2008 [LINK](#)
- Time Magazine’s “2006 Person of the Year” December 13<sup>th</sup>, 2006 [LINK](#)
- Volunteer Judge for the 3<sup>rd</sup> Annual Kentucky Science and Engineering Fair in Richmond, KY. April 2<sup>nd</sup>, 2005
- Volunteer Judge for the 1<sup>st</sup> Annual Kentucky Science and Engineering Fair in Richmond, KY. March 27<sup>th</sup>, 2004
- Volunteer Judge for the Glendover Elementary School Science Fair in Lexington, KY. January 22<sup>nd</sup>, 2004
- Volunteer Judge for the 53<sup>rd</sup> International Science and Engineering Fair in Louisville, KY. May 12-18<sup>th</sup>, 2002
- PADI Open Water Diver SCUBA certification, October 13<sup>th</sup>, 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  $\beta$ a (*esr2a*) mRNA. [DQ984125](#).
- Lynn SG, WJ Birge and BS Shepherd. 2007. *Perca flavescens* estrogen receptor  $\alpha$  (*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*  $\beta$ -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 19-21<sup>st</sup>, 2014.
- Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression. The SAS Institute. August 15-16<sup>th</sup>, 2013.
- Basic Project Management I (FAC-102). The Training Institute of Washington D.C. August 16-18<sup>th</sup>, 2011
- Certification in "Responsible Conduct of Research and Scholarship" from MSU Graduate School. October 5<sup>th</sup>, 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