

Department of Biology
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EDUCATION

- Ph.D. in Molecular & Cellular Biology**, *University of Washington* 6/99 – 12/05
Dissertation: Role of Gli3 in the developing chick spinal cord
- B.S.**, graduated with distinction, *Purdue University* 8/94 – 5/98
Area of Concentration: Molecular Biology, Research Honors Program
Minor: Spanish
Honors Thesis: Characterization of human genomic *B-ATF* and *cis*-elements

RESEARCH EXPERIENCE

- Faculty position** – *Department of Biology, Clark University, MA* 9/18 – present
Associate professor 8/11 – 8/18
Assistant professor
Project: Nervous system evolution and molecular mechanisms of neural development in annelids
- Postdoctoral Researcher** – *Dr. Elaine C. Seaver, Kewalo Marine Laboratory, University of Hawai'i, HI* 2/06 – 7/11
Project: Nervous system evolution and mechanisms of neurogenesis in annelids
- Student** – *Marine Biological Laboratories, MA* 6/05 – 7/05
Embryology: Concepts & Techniques in Modern Developmental Biology
- Graduate** – *Dr. Henk Roelink, University of Washington, WA* 4/00 – 12/05
Project: Dorsoventral patterning of neural cells in the developing chick and mouse spinal cord with emphasis on the function of Gli3 downstream of the Shh signal and the evolutionary role of a BMP activity gradient
- Research Technician** – *Dr. Elizabeth J. Taparowsky, Purdue University, IN* 5/98 – 5/99
Project: Comparison of transcriptional regulation of human *B-ATF* in normal and Epstein Barr virus-infected B lymphocytes by characterization of regulatory *cis*-elements
- Undergraduate** – *Dr. Elizabeth J. Taparowsky, Purdue University, IN* 5/95 – 5/98
Project: Characterization of transcriptional regulation of human *B-ATF* in normal and Epstein Barr virus-infected B lymphocytes
- Research Internship** – *Dr. Joseph M. Colacino, Eli Lilly & Company, IN* 6/96 – 8/96
Project: Examination of viral drug resistance by characterizing hemagglutinin variants from drug-resistant strains of influenza
- High School** – *Dr. James P. Hughes and Dr. David A. Prentice, Indiana State University, IN* 11/91 – 5/94
Project: Mediation of prolactin-induced lymphocyte proliferation by regulation of stathmin phosphorylation

TEACHING EXPERIENCE

- Assistant Professor**, *Clark University* 9/11 – present
Biol 221 Developmental Biology (S14, S16, F17 – lab added)

Biol 239 Evolutionary Developmental Biology (F12, F13, F14, F15, S17)
Guest lectures for Biol 102 (S13, S17), Biol 105 (F14, F15, F17, S18), Biol 084 (S15)
Biol 299 Directed Research (S12 – present)
Biol 240 Comp & Human Physiology (S12, S13 – lab added, S14, S16, S18)
Biol 143 Neuroscience (F11, F12, F13, F14, F15, F17)

Postdoctoral researcher, Kewalo Marine Laboratory, University of Hawaii 7/07 – 5/11

Guest lecture on neural development, Zool 420 Developmental Biol (5/11)

Teaching Assistant for Embryology: Concepts & Techniques in Modern Developmental Biology course, *Marine Biological Laboratories* (7/07, 7/10)

Guest lectures on neural development, Zool 442 Neurobiology (4/10, 4/11)

Ph.D. student, University of Washington 10/00 – 12/00

Teaching Assistant for Biol 401: Advanced Cell Biology (10/00 – 12/00)

MENTORING EXPERIENCE

Faculty member, Clark University (9/11 – present)

Undergraduate research mentor (Biol 299 and independent research) : Eric Tillotson (1/12 – 5/13), Stephanie Aldrich (1/12 – 5/13), Simona Tolchin (1/12 – 5/13), Michele Corbet (1/12 – 5/14), Thomas Spaulding (9/12 – 12/12), Beatriz Kaippert (9/12 – 5/13), Maria Paredes (1/13 – 5/13), Bonghinkosi Vilakati (1/13 – 5/13, 8/14 – 10/14), Rebecca Friedman (6/13 – 5/14), Lauren Koppel (6/13 – 5/14), Nicholas Rovnak (9/13 – 5/14), Sarah Dys (9/13 – present), Christie Joyce (6/14 – 5/16), Sarah Clay (8/14 – 5/14), Justin Woods (1/14 – 5/14), Iva Hoxha (5/15 – 5/17), Kristi Sarro (6/15 – 8/15), Samuel Peluso (9/15 – 5/16), Amiel Jaggernaut (1/16 – 5/18), Ashley Renfro (6/16 – present), Ann Kim (5/17 – 5/18), Jenna Libera (5/17 – 5/18), Anson O'Connor (6/18 – present)

Master's research mentor: Simona Tolchin (8/13 – 12/18), Michele Corbet (6/14 – 12/16), Matt Thompson (8/13 – 8/15), Ashley Stanton (8/13 – present), Christie Joyce (5/16 – 11/17)

Ph.D. research mentor: Allan Carrillo-Baltodano (8/13 – present), Abhinav Sur (8/14 – present)

Postdoctoral researcher, Kewalo Marine Laboratory, University of Hawaii (6/08 – 4/10)

Ph.D. research mentor: David Simmons (12/09 – 4/10)

Undergraduate research mentor: Travis Weber (6/08 – 12/09)

Ph.D. student, University of Washington (5/01 – 5/05)

Undergraduate research mentor: Yoko Nozawa (8/04 – 12/04), Matthew Nichols (1/05 – 5/05)

Science Education Partnership, Fred Hutchinson Cancer Research Center (5/01 – 11/02)

- Attended four training workshops on teaching methods
- Prepared and led daily discussions for one week with high school teachers on current topics in science
- Mentored a high school science teacher's research project
- Performed over forty hours of community science outreach activities

Lab technician, Purdue University (5/98 – 5/99)

Ph.D. research mentor: Supervised 3 graduate student rotation projects

FELLOWSHIPS AND AWARDS

Smithsonian Institute Short-Term Visitor award to work with Dr. Mary Rice at the Smithsonian Marine Station in Fort Pierce, Florida (*Clark University*) 12/11

Paper nominated (1 of 5) for Biology Prize at 5th Annual Research Awards to recognize ground-breaking research published in BioMed Central's journals (<i>University of Hawaii</i>)	6/11
HHMI Predoctoral Fellowship (<i>University of Washington</i>)	6/00 – 12/05
National Science Foundation Graduate Research Fellowship (<i>University of Washington</i>)	declined
Eli Lilly Purdue Alumni Full Science Scholarship (<i>Purdue University</i>)	8/94 – 5/98
National Naval Science Scholarship (<i>Purdue University</i>)	8/94 – 5/98
Robert C. Byrd Honors Scholarship (<i>Purdue University</i>)	8/94 – 5/98
National Merit Scholarship (<i>Purdue University</i>)	8/94 – 5/95
Indiana State Science Fair Scholarship (<i>Purdue University</i>)	8/94 – 5/95
Indiana Academy of Science Talent Search Scholarship (<i>Purdue University</i>)	8/94 – 5/95
Kappa Kappa Kappa Science Scholarship (<i>Purdue University</i>)	8/94 – 5/95

 PEER-REVIEWED PUBLICATIONS (** Clark University student)

- A. Carrillo-Baltodano** and **N.P. Meyer**. (2017) "Decoupling brain from nerve cord development in the annelid *Capitella teleta*: insights into the evolution of nervous systems". Dev. Biol. **431**(2): 134-144.
- Sur, A.**, C.R. Magie, E.C. Seaver, and **N.P. Meyer**. (2017) "Spatial and temporal regulation of neurogenesis in the annelid *Capitella teleta*." EvoDevo, **8**: 13.
- Meyer, N.P.**, A. Carrillo-Baltodano**, R. Moore, E.C. Seaver. (2015) "Nervous system development in lecithotrophic larval and juvenile stages of the annelid *Capitella teleta*." Front Zool, **12**: 15.
- Seaver E.C., E. Yamaguchi, G.S. Richards, and **N.P. Meyer** (2012). "Expression of the pair-rule gene homologs runt, Pax3/7, even-skipped-1 and even-skipped-2 during larval and juvenile development of the polychaete annelid *Capitella teleta* does not support a role in segmentation." EvoDevo **3**: 8.
- Meyer, N.P.**, Boyle, M.J., Martindale, M.Q. and E.C. Seaver (2010). "A comprehensive fate map by intracellular injection of identified blastomeres in the marine polychaete *Capitella teleta*." EvoDevo **1**: 8.
- Meyer, N.P.** and E.C. Seaver (2010). "Cell lineage and fate map of the primary somatoblast in the polychaete annelid *Capitella teleta*." Integr Comp Biol **50**(5): 756-767.
- Jackson, D.J., **N.P. Meyer**, E.C. Seaver, K. Pang, C. McDougall, V.N. Moy, K. Gordon, B.M. Degnan, M.Q. Martindale, R.D. Burke, K.J. Peterson (2010). "Developmental expression of *COE* across the Metazoa supports a conserved role in neuronal cell-type specification and mesodermal development." Development, Genes and Evolution **220**: 221-234.
- Layden, M.J., **N.P. Meyer**, K. Pang, E.C. Seaver, M.Q. Martindale (2010). "Expression and phylogenetic analysis of the *zic* gene family in the evolution and development of metazoans." EvoDevo **1**: 12.
- Meyer, N.P.** and E.C. Seaver (2009). "Neurogenesis in an annelid: characterization of brain neural precursors in the polychaete *Capitella* sp. I." Dev Biol **335**(1): 237-52.
- Mizutani, C.-M., **Meyer, N.P.**, Roelink, H. and E. Bier (2006). "Threshold dependent BMP mediated repression: a conserved mechanism for patterning the neuroectoderm." PLoS Biol **4**(10): 1777-88.

Meyer, N.P. and H. Roelink (2003). "The amino-terminal region of Gli3 antagonizes the Shh response and acts in dorsoventral fate specification in the developing spinal cord." *Dev Biol* **257**(2): 343-55.

Meyer, N.P., Johansen, L.M., Tae, H.J., Budde, P.P., Williams, K.L. and E.J. Taparowsky (1998). "Genomic organization of human B-ATF, a target for regulation by EBV and HTLV-1." *Mamm Genome* **9**(10): 849-52.

Meyer, N.P., Prentice, D.A., Fox, M.T. and J.P. Hughes (1992). "Prolactin-induced proliferation of the Nb2 T-lymphoma is associated with protein kinase-C-independent phosphorylation of stathmin." *Endocrinology* **131**(4): 1977-84.

MANUSCRIPTS IN PREPARATION or SUBMITTED

Boyle, M.J., A. Carrillo-Baltodano** (co-first authors), M.J. Rice, and **N.P. Meyer**. "Evolution of the annelid body plan: developmental insights from the unsegmented sipunculan *Themiste lageniformis*." In prep. for *Evo Devo*.

Corbet, M.**, C. Joyce**, A. Sur**, A. Renfro**, and **N.P. Meyer**. "Novel functions of BMP signaling during early neural specification in the annelid *Capitella teleta*." In prep. for *Development*.

Hoxha, I.**, S. Tolchin**, and **N.P. Meyer**. "Function of Notch signaling during neurogenesis in the annelid *Capitella teleta*." In prep. for *Dev. Biol*.

RESEARCH GRANTS AWARDED

Evolution of neural induction and dorsal-ventral axis specification: BMP network involvement in annelids. NSF IOS grant #1656378 (\$508,142), 7/17 – 7/20

Understanding regulation of neural stem cells. Beaver's research grant (\$2,535), 4/16 – 3/17

Evolution of the stress-response system in an emerging model vertebrate system. Co-PI, Beaver's research grant (\$6,275), 2/15 – 3/16

MEMBERSHIPS

American Association for the Advancement of Science
 Pan-American Society for Evolutionary Developmental Biology
 Society for Developmental Biology
 Society for Integrative and Comparative Biology
 Society for the Study of Evolution

SERVICE ACTIVITIES

Faculty member, *Clark University* (9/11 – present)

Review of manuscripts

International Journal of Developmental Biology, *Biology Letters*, *BMC Evolutionary Biology*, *Developmental Biology*, *Neuroscience Bulletin*

Review of grant proposals

Reviewed grant proposals and preproposals for NSF IOS

Clark University committees

Biology Communications committee (9/15 – present)

Department Curriculum committee (9/14 – 5/14)

College Board (9/13 – 12/14, 5/15 – 5/16)

Board of Trustees Student Affairs committee (9/13 – 5/16)

Prehealth Advisory committee (2/13 – present)

Biology Faculty Search committee (9/13 – 4/14)

Library committee (9/11 – 12/11)

Graduate student committees

Ph.D.: Anika Wohlleben (F17 – present), Amy Cheu (F15 - present), Daniel Klonaros (F15 – present), Abhinav Sur (F14 – present), Allan Carrillo-Baltodano (F13 – present), Melissa Graham (F13 – present), Alicia Knudson (F13 – present), Minoli Perera (F12 – F16), Miguel Reyes (F12 – S16), Xiang Ren (F12 – S16), Chitra Naidu (F12 – S18)

M.S.: Luke Nourie, Gina Kelley, Simona Tolchin (F18), Christie Joyce (F17), Samantha Dokus (S17), Briana Cooney (S16), Rebecca Rood Goldman (S16), Michele Corbet (F16), Allen Roth (F15), Joshua Buggé (S15), Matthew Thompson (S15), Alexis Carlson (S13), Travis Durkin (S13), Jason Liu (Su12), Dylan Glotzer (S12), Lily Hughes (S12), Ashley Blau (S12)

Undergraduate Honors: Joshua Buggé (S14), Magali Lemahieu (S13), Agnes Cheong (S13), Abhijit Srungavarapu (S12), Jennifer Gaines (S12), Jenni Adams (S12)

Other Clark University service:

Jefferson prize (5/13)

Other service:

Marine Biological Laboratories summer program admissions panel (two years)

Hosted Michael J. Boyle, a postdoctoral researcher from the Smithsonian Tropical Research Institute in Panama in my lab (9/15)

Northeast Society for Developmental Biology Meeting, Student poster judge and chaired a session (4/15)

Society for Integrative and Comparative Biology, DEDB nomination committee (1/15 – present)

Society for Integrative and Comparative Biology, DEDB Student poster and oral presentation judge (1/13, 1/14, 1/15)

Society for Integrative and Comparative Biology, DEDB “Evo-Devo Dinner Dates” – Took 2 students out for dinner (1/13, 1/14, 1/15, 1/18)

Postdoctoral researcher, Kewalo Marine Laboratory, University of Hawaii (1/08 – 1/11)

Session co-chair for Evo-Devo: Body Plan Development, *Society for Integrative and Comparative Biology Annual Meeting* (1/11)

Manuscript review for *Evolution and Development*

Kane Lecture committee member, co-organized a three day visit for an invited lecturer, *Kewalo Marine Laboratory* (1/08 – 4/08)

Ph.D. student, University of Washington (9/00 – 3/02)

Co-organized the Molecular & Cellular Biology Ph.D. Student Retreat (1/02 – 3/02)

Co-organized the Molecular and Cellular Biology Symposium, “Sensing and Signaling: Molecular & Cellular Responses to the Environment” (3/01 – 3/02)

Co-organized the Big IF, an interactive forum designed to promote information sharing among graduate students in the broad, interdisciplinary Molecular & Cellular Biology program (9/00 – 5/01)

OUTREACH ACTIVITIES

Faculty member, Clark University (7/12 – 8/18)

Girls Inc. of Worcester, Eureka! Summer program, Designed and ran labs with my research group for junior high girls that incorporated concepts in development and evolution using *Capitella teleta* (7/12, 7/13, 7/14, 8/15, 8/16, 7/17, 8/18)

Ph.D. student, University of Washington (1/02 – 2/04)

Presented my research to high school science classes for a day (2/04)

Judged a middle school science fair (6/02)

Presented a developmental biology booth at an elementary school's science night (5/02)

Taught a genetics lesson to 5th grade students (4/02)

Volunteered for Hutch High, a program to increase interest in science for high school students, *Fred Hutchinson Cancer Research Center* (11/02)

Mentored four 5th grade students to design, execute, and present a science fair project, *Bryant Elementary School* (1/02 – 4/02)

ORAL PRESENTATIONS & INVITED TALKS (Clark University student; • Presenter)**

Corbet, M.** , Sur, A.** , Carrillo-Baltodano, A.** , Renfro, A.** and N.P. Meyer• “Neural fate specification in the annelid *Capitella teleta* and implication for nervous system evolution.” The International Conference for the Developmental Biology of the Sea Urchin and Other Marine Invertebrates Meeting, *Marine Biological Laboratories, Woods Hole, MA* (2018).

Corbet, M.** , Joyce, C.** , Sur, A.** , and N.P. Meyer• “Function of BMP signaling in the annelid *Capitella teleta* and implication for nervous system evolution.” V Simposio Latinoamericano de Polychaeta, *San José, Costa Rica* (2018).

Corbet, M.** , Joyce, C.** , Sur, A.** , and N.P. Meyer• “Function of BMP signaling in the annelid *Capitella teleta* and implication for nervous system evolution.” 7th Meeting of the European Society for Evolutionary Developmental Biology, *Galway, Ireland* (2018).

Seminar, “Function of BMP signaling in the annelid *Capitella teleta* and implication for nervous system evolution.” *SARS International Centre for Marine Molecular Biology, Bergen, Norway* (2018)

Corbet, M.** , Joyce, C.** , Sur, A.** , and N.P. Meyer• “Function of BMP signaling in the annelid *Capitella teleta* and implication for nervous system evolution.” Society for Integrative and Comparative Biology Annual Meeting, *San Francisco, CA* (2018).

Seminar, “Annelid evo-devo: insights into nervous system evolution.” Biology Department, *Rhode Island College, Providence, RI* (2016)

Seminar, “Annelid evo-devo: insights into nervous system evolution.” The Schaeffer Family Seminar Series, Department of Biology, *College of the Holy Cross, Worcester, MA* (2015)

Meyer, N.P. • and Simona Tolchin** . “Notch signaling during neural development in the annelid *Capitella teleta*.” Society for Integrative and Comparative Biology Annual Meeting, *San Francisco, CA* (2013).

Seminar, “Annelid evo-devo: Insights into nervous system evolution.” Department of Biology, *University of Massachusetts, Lowell, MA* (2012).

Seminar, “Annelid evo-devo: Insights into nervous system evolution.” *Smithsonian Marine Station, Fort Pierce, FL* (2012).

Meyer, N.P. • and E.C. Seaver. “Central nervous system development in the annelid *Capitella teleta*.” Society for Developmental Biology, West Coast Regional Meeting, *Honolulu, HI* (2011).

Seminar, Department of Biology, *California State University, Fresno, CA* (2011).

Seminar, Department of Zoology & Physiology, *University of Wyoming, Laramie, WY* (2011).

- Seminar, Department of Biology, *Clark University, Worcester, MA* (2011).
- Meyer, N.P. • and E.C. Seaver. “Cellular and molecular mechanisms of brain development in the annelid *Capitella teleta*.” Society for Integrative and Comparative Biology Annual Meeting, *Seattle, WA* (2010).
- Seminar, School of Natural Sciences, *University of California, Merced, CA* (2009).
- Seminar, Pacific Biosciences Research Center, *University of Hawaii, HI* (2009).
- Meyer, N.P. • and E.C. Seaver. “Early neurogenesis in a polychaete annelid: characterization of neural precursor cells during brain development in *Capitella* sp. I.” Integrating Evolution, Development and Genomics, *Berkeley, CA* (2008).
- Meyer, N.P. • and H. Roelink. “Responding to Shh and BMPs in the developing spinal cord.” Northwest Regional Society for Developmental Biology Meeting, *Friday Harbor, WA* (2005).
- Meyer, N.P. • and H. Roelink. “Stuck in the middle: Responding to Shh and BMP in the developing spinal cord.” Seattle Developmental Biology Meeting, *Seattle, WA* (2004).
- Meyer, N.P. • and H. Roelink. “Gli3 antagonizes the Shh response in the developing spinal cord.” 62nd Annual Society for Developmental Biology Meeting, *Boston, MA* (2003).
- Meyer, N.P. • and H. Roelink. “Gli3 antagonizes the Shh response in the developing spinal cord.” Northwest Regional Society for Developmental Biology Meeting, *Friday Harbor, WA* (2003).

PUBLISHED MEETING ABSTRACTS (** Clark University student; • Presenter)

- Sur, A.** , Renfro, A.** , and N.P. Meyer•. “How to get a brain: Evolutionary implications of neurogenesis in the annelid *Capitella teleta*.” V Simposio Latinoamericano de Polychaeta. San José, Costa Rica (2018). Poster
- Carrillo-Baltodano, A.** • , N.P. Meyer. “Early neural specification in the annelid *Capitella teleta*: insight into the evolution of nervous systems.” V Simposio Latinoamericano de Polychaeta. San José, Costa Rica (2018). Oral presentation.
- Sur, A.** • , Renfro, A.** • , and N.P. Meyer. “How to get a brain: Evolutionary implications of neurogenesis in the annelid *Capitella teleta*.” Northeast Society for Developmental Biology Meeting, Woods Hole, MA (2018). Poster.
- Carrillo-Baltodano, A.** • , N.P. Meyer. “Decoupling brain from nerve cord development in the annelid *Capitella teleta*.” Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA (2018). Oral presentation.
- Carrillo-Baltodano, A.** • , Meyer, N.P. “Blastomere isolation reveals different neural specification mechanisms between the brain and ventral nerve cord in *Capitella teleta* (Annelida).” IX Latin American Society for Developmental Biology Meeting. Medellin, Colombia (2017). Oral presentation.
- Corbet, M.** , A. Carrillo-Baltodano**, and N.P. Meyer •. “Evolution of centralized nervous systems: insights from the annelid *Capitella teleta*.” Poster at the Pan-American Society for Evolutionary Developmental Biology Meeting, *Calgary, Canada* (2017).
- Joyce, C.** • and N.P. Meyer. “BMP signaling during early development of the annelid *Capitella teleta*.” Poster at the Northeast Society for Developmental Biology Meeting, *Woods Hole, MA* (2017).
- Seaver, E. C. • and Meyer, N. P. Brain neural progenitors in a marine annelid worm. 8th Aquatic Animal Models of Human Disease Conference, Birmingham, AL (2017).
- Carrillo-Baltodano, A.** • and N.P. Meyer. “Deciphering early neural specification in annelids using blastomere isolations.” Society for Developmental Biology Meeting, *Boston, MA* (2016).
- Sur, A.** • and N.P. Meyer. “Spatio-temporal expression pattern of neurogenic homologs reveals a possible role in the annelid *Capitella teleta*.” Society for Developmental Biology Meeting, *Boston, MA* (2016)

- Carrillo-Baltodano A.**, and N. P. Meyer. "Isolated blastomeres reveal scenarios for neural specification in annelids." Society for Integrative and Comparative Biology Annual Meeting, Portland, OR (2016).
- Sur, A.** and N.P. Meyer. "Spatio-temporal expression pattern of neurogenic homologs reveals a possible role in early neurogenesis in *Capitella teleta*." Society for Integrative and Comparative Biology Annual Meeting, Portland, OR (2016).
- Carrillo-Baltodano, A.**, Boyle, M. J., Rice, M. E. and N. P. Meyer. "Análisis del desarrollo del sistema nervioso en *Themiste lageniformis*: una reevaluación en Sipuncula." 4th Latin American Polychaete Symposium, Nuevo León, México (2015).
- Corbet, M.** and N.P. Meyer. "BMP signaling during early development of the annelid *Capitella teleta*." Society for Integrative and Comparative Biology Annual Meeting, *Palm Beach, FL* (2015).
- Boyle M.J., Carrillo-Baltodano A.**, Rice M.E., Meyer N.P. "Reevaluation of the hypothesized loss of segmentation in sipunculans through in-depth analysis of neural development in *Themiste lageniformis*." Society for Integrative and Comparative Biology Annual Meeting, *Palm Beach, FL* (2015).
- Tolchin, S.** and N.P. Meyer. "Role of Notch/Delta signaling in neural development of the annelid *Capitella teleta*." Society for Integrative and Comparative Biology Annual Meeting, *Palm Beach, FL* (2015).
- Corbet, M.** and N.P. Meyer. "BMP signaling during early development of the annelid *Capitella teleta*." Northeast Society for Developmental Biology Meeting, *Woods Hole, MA* (2014).
- Meyer, N.P. and E.C. Seaver. "Understanding central nervous system development in an annelid: mapping gene expression profiles during early brain formation in *Capitella teleta*." Society for Integrative and Comparative Biology Annual Meeting, *Salt Lake City, UT* (2011).
- Boyle, M.J., Meyer, N.P. and E.C. Seaver. "Evolution of the annelid body plan: developmental insights from the unsegmented sipunculan worm *Themiste lageniformis*." Society for Integrative and Comparative Biology Annual Meeting, *Salt Lake City, UT* (2011).
- Meyer, N.P., Boyle, M.J., Martindale, M.Q. and E.C. Seaver. "The complete cell lineage of the polychaete annelid *Capitella teleta*." Society for Integrative and Comparative Biology Annual Meeting, *Seattle, WA* (2010).
- Meyer, N.P. and E.C. Seaver. "Brain development in the annelid *Capitella* sp. I: Insights into nervous system evolution." 68th Annual Society for Developmental Biology Meeting, *San Francisco, CA* (2009).
- Meyer, N.P. and E.C. Seaver. "Early brain development in the polychaete annelid *Capitella* sp. I." Northwest Regional Society for Developmental Biology Meeting, *Friday Harbor, WA* (2009).
- Meyer, N.P. and E.C. Seaver. "Neural development in the polychaete annelid *Capitella* sp. I." Society for Integrative and Comparative Biology Annual Meeting, *San Antonio, TX* (2008).
- Meyer, N.P., L. Kaneshige and E.C. Seaver. "Investigating neurogenesis in the polychaete annelid *Capitella* sp. I." Integrating Evolution, Development and Genomics, *Berkeley, CA* (2006).
- Meyer, N.P. and H. Roelink. "Screen for early transcriptional targets of the Shh response." Northwest Regional Society for Developmental Biology Meeting, *Friday Harbor, WA* (2004).
- Meyer, N.P. and H. Roelink. "The amino-terminal region of Gli3 specifies dorsal fates in the neural tube." Northwest Regional Society for Developmental Biology Meeting, *Friday Harbor, WA* (2002).
- Meyer, N.P. and H. Roelink. "The Gli3 repressor defines the dorsal domain in the neural tube." Keystone Symposia: Wnt and Beta-Catenin Signaling in Development and Disease, *Taos, NM* (2002).