

ROSEMARIE PERRY, Ph.D.

Curriculum Vitae

phone: (717) 574-6094

email: rosemarie.perry@nyu.edu

website: https://www.researchgate.net/profile/Rosemarie_Perry

RESEARCH INTERESTS

I study the neurobiology underlying developmental programming, learning, and processing of emotions throughout the lifespan using both rodent models and human infants. My current research focuses on the lifelong neurobehavioral effects of early life adversity, and attempts to reverse the negative aspects of these early life experiences.

ACADEMIC TRAINING

2006- 2010	B.S., University of Delaware, Neuroscience minor: Biological Sciences (GPA: 3.9)
2010-2015	Ph.D., Sackler Institute, NYU Langone Medical Center, Neuroscience & Physiology (GPA 3.8)
2016-present	Postdoctoral Fellow, Institute of Human Development and Social Change, New York University, NYU Neuroscience and Education Lab

RESEARCH EXPERIENCE

University of Delaware Undergraduate Research

Sept 2007-May 2008	Research Assistant, University of Delaware, Clinical Psychology, Dr. Lawrence Cohen, Coping with cancer
Sept 2008-Aug 2010	Research Assistant, University of Delaware, Behavioral Neuroscience, Dr. Mark Stanton, Development and neural basis of learning
June 2009-May 2010	Senior Thesis, <i>Delay vs. trace discrimination in eyeblink conditioning: Ontogeny and effect of neonatal ethanol exposure</i> , Dr. Mark Stanton
Sept 2009-Dec 2009	Independent Research, <i>The effects of 6-hydroxydopamine on background color adaptation in Fundulus heteroclitus</i> , Dr. Seung Hong

NYU Langone Medical Center Graduate Research

Oct 2010-Dec 2010	Graduate Research Assistant (Rotation Student), Neuropharmacology, Dr. Eric Stone, Major depressive disorder in animal models
Jan 2011-Aug 2011	Graduate Research Assistant (Rotation Student), Bellevue Hospital, Olfactory Research/Pediatrics, Dr. Regina Sullivan & Dr. Karine Kleinhaus, The effect of maternal odor on calm and stressed state human neonates
May 2011-Dec 2015	Graduate Research Assistant (Ph.D. Student), Nathan Kline Institute/Emotional Brain Institute/NYU Child & Adolescent Psychiatry, Developmental Neurobiology, Dr. Regina Sullivan, The neurobiology of infant attachment
May 2011-Dec 2015	NIH Center Trainee: Early Experience, Stress, and Neural Development, Dr. Megan Gunnar (PI)
November 2013	Visiting Scientist, Partner University Fund (PUF), Center of Neurosciences Paris-Sud, Université Paris-Sud, Dr. Valérie Doyère

New York University Research

Jan 2016-present Postdoctoral Fellow, Neuroscience and Education, Dr. Clancy Blair and Dr. Cybele Raver, Development of self-regulation and effects of early life adversity.

TEACHING AND MENTORING EXPERIENCE

Nov 2007-May 2010 Tutor, University of Delaware Academic Enrichment Center, Calculus I & II
Sept 2009-May 2010 Teaching Assistant & Research Mentor, University of Delaware, Experimental Physiology, Dr. Seung Hong
Sept 2011-Oct 2011 Teaching Assistant, NYU Langone Medical Center, Neuroanatomy, Dr. Eric Lang & Dr. Kalman Rubison
Jan 2012-March 2012 Tutor, NYU Langone Medical Center, Neuroanatomy
Apr 2012-May 2012 Tutor, NYU Langone Medical Center, Systems Neuroscience
June 2013-Jan 2014 Research Mentor, NYU Psychology Undergraduate Intern (Kiara Vega)
Oct 2013-May 2015 Research Mentor, NYU Center for Neural Science Undergraduate Intern (Kysa McSky)
June 2014-Aug 2014 Research Mentor, NYU Center for Neural Science Summer Undergraduate Research Program (Kysa McSky & Elizabeth Brehman)
Aug 2014-May 2015 Research Supervisor, NYU Psychology Research Internship Program for Master's students (Roberta Liggett)
Oct 2015-March 2016 Mentored high school student for Regeneron Westchester Science & Engineering Fair (Hannah Brown, winner of 1st place in 2015 Behavioral Science and Genius Olympiad award)

VOLUNTEER WORK

Jan 2007-May 2010 Best Buddies, Socialized with mentally and physically handicapped residents of the Mary Campbell Center in Wilmington, DE
Jan 2007-May 2010 Tutoring for Tomorrow, Math and reading tutor at Downe's Elementary School in Newark, DE
Aug 2012-Dec 2015 Neuroscience Outreach Group at NYU, Organized/volunteered at public outreach events created to educate the public in everything related to the brain
March 2016-June 2016 Know Science Inc., President Interim
Jan 2016-present Know Science Inc., Vice President, Event coordinator and frequent speaker for international education and advocacy not-for-profit organization working to promote science to a non-specialized audience (www.knowscience.org).
Oct 2016-present Sesame Street U.S. Social Impact Department, Advise on the development of family resources and media for the "Sesame Street in Communities" early-life trauma initiative.

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

Member, International Society for Developmental Psychobiology (2010, 2013, 2015)
Member, Society for Neuroscience (2011-2016)
Member, New York Academy of Sciences (2011-2016)
Member, Society of Biological Psychiatry (2012)
Member, Eastern Psychological Association (2013-2016)
Member, Society for Research in Child Development (2016)

AWARDS AND HONORS

University of Delaware Scholar Award recipient for annual tuition (2006-2010)
Alpha Lambda Delta Honors Society (2006-2010)
Summer Research Fellow, University of Delaware Undergraduate Research Program (2009)
University of Delaware Psychology Research Award Recipient (2010)
B.S. Neuroscience with a minor in Biological Sciences, *magna cum laude* & Degree with Distinction,
University of Delaware (2010)
Ph.D. Neuroscience & Physiology, *magna cum laude*, New York University (2016)

GRANT SUPPORT

NIH Training Grant Recipient- NYU School of Medicine T32MH096331 (2010-2012)
International Society for Developmental Psychobiology Travel Grant (2010, 2013, 2015)
New York University GSAS Dean's Student Travel Grant (2013)
New York University Sackler Travel Grant (2015)

ARTICLES

1. Sullivan RM, **Perry R**, Sloan A, Kleinhaus K, Burtchen N (2011). Infant bonding and attachment to the caregiver: Insights from basic and clinical science. *Clinics in Perinatology*. 38(4):643-55. doi: 10.1016/j.clp.2011.08.011.
2. Roth TL, Rainecki C, Salstein L, **Perry R**, Sullivan-Wilson TA, Sloan A, Lalji B, Hammock E, Wilson DA, Levitt P, Okutani F, Kaba H, Sullivan RM (2013). Neurobiology of secure infant attachment and attachment despite adversity: A mouse model. *Genes, Brain and Behavior*. 12: 673-680. doi: 10.1111/gbb.12067.
3. **Perry R** and Sullivan RM (2014). Neurobiology of attachment to an abusive caregiver: Short term benefits and long term costs. *Developmental Psychobiology*. 56(8): 1626-34. doi: 10.1002/dev.21219.
4. Rainecki C, Sarro EC, Rincón-Cortés M, **Perry R**, Boggs J, Holman CJ, Wilson DA, Sullivan RM (2014). Paradoxical neurobehavioral rescue by memories of early-life abuse: The safety signal values of odors learned during abusive attachment. *Neuropsychopharmacology*. 40(4):906-14. doi: 10.1038/npp.2014.266.
5. Sullivan RM and **Perry RE** (2015). Mechanisms and functional implications of social buffering in infants: lessons from animal models. *Social Neuroscience*. 10(5): 500-11. doi: 10.1080/17470919.2015.1087425.
6. Al Aïn S* and **Perry RE***, Nuñez B, Kayser K, Hochman C, Brehman E, LaComb M, Wilson DA, Sullivan RM (2016). Neurobehavioral assessment of maternal odor in developing rat pups: implications for social buffering. *Social Neuroscience*. [Epub ahead of print].
***authors contributed equally**
7. **Perry RE**, Al Aïn S, Rainecki C, Sullivan RM, Wilson DA (2016). Development of odor hedonics: Experience-dependent ontogeny of circuits supporting maternal and predator odor responses in rats. *The Journal of Neuroscience*. 36(25):6634-6650. doi: 10.1523/JNEUROSCI.0632-16.2016.

ACADEMIC PRESENTATIONS

1. **Perry RE**, Hoffman R, Greenberg R, Laurenceau JP, Cohen LH (May 2008). Couples coping with cancer: the effects of coping strategies on positive and negative affect. University of Delaware Undergraduate Research Symposium, Poster presentation, Newark, DE.
2. **Perry RE** and Stanton ME (May 2010). Delay vs. trace discrimination in eyeblink conditioning: Ontogeny and effect of neonatal ethanol exposure. University of Delaware Undergraduate Research Symposium, Poster presentation, Newark, DE.

3. **Perry RE** and Stanton ME (May 2010). Delay vs. trace discrimination in eyeblink conditioning: Ontogeny and effect of neonatal ethanol exposure University of Delaware Senior Thesis Symposium, Poster presentation, Newark, DE.
4. **Perry RE**, Schiffino FL, Stanton ME (Nov 2010). Delay vs. trace discrimination in eyeblink conditioning: Ontogeny and effect of neonatal ethanol exposure. 43rd meeting of the International Society for Developmental Psychobiology (ISDP), Poster presentation, San Diego, CA.
5. **Perry RE** and Sullivan RM (May 2012). Adult fear expression as a function of early life attachment and motherhood. 67th meeting of the Society of Biological Psychiatry (SOBP), Poster presentation, Philadelphia, PA.
6. **Perry RE** and Sullivan RM (Oct 2012). Adult fear expression as a function of early life attachment and motherhood. 42nd meeting of the Society for Neuroscience (SfN), Poster presentation, New Orleans, LA.
7. **Perry RE** and Sullivan RM (March 2013). Adult fear and maternal behavior as a function of early life abuse. 84th meeting of the Eastern Psychological Association (EPA), Oral presentation, New York, NY.
8. **Perry RE** and Sullivan RM (Nov 2013). Early life abuse switches passive fear expression to active fear expression and abolishes maternal protection of pups. 43rd meeting of the Society for Neuroscience (SfN), Poster presentation, San Diego, CA.
9. **Perry RE** and Sullivan RM (Nov 2013). Early life abuse increases active fear expression and abolishes maternal protection of pups. 46th meeting of the International Society for Developmental Psychobiology (ISDP), Poster presentation, San Diego, CA.
10. **Perry RE** and Sullivan RM (Nov 2013). Early life abuse produces maladaptive threat responding and poor maternal protection of pups. Partner University Fund Colloquium (PUF), Oral presentation, New York, NY.
11. **Perry RE** and Sullivan RM (March 2014). Infant abuse produces maladaptive threat responding and poor maternal protection of pups. 85th meeting of the Eastern Psychological Association (EPA), Oral presentation, Boston, MA.
12. **Perry RE** (March 2014). “Developmental Papers IV: Graduate Student Session”, 85th meeting of the Eastern Psychological Association (EPA), Chair, Boston, MA.
13. **Perry RE** and Sullivan RM (March 2014). Early life abuse produces maladaptive threat responding and poor maternal protection of pups. NYU-WIS Frontiers in Brain Cognition, Poster presentation, New York, NY.
14. **Perry RE** and Sullivan RM (April 2014). Early life abuse produces maladaptive threat responding and poor maternal protection of pups. NYU Neuroscience Retreat, Poster presentation, New Paltz, NY.
15. **Perry RE** and Sullivan RM (Aug 2014). Early life abuse switches passive fear expression to active fear expression and abolishes maternal protection of pups. NYU Child Study Center Annual Poster Session, Poster presentation, New York, NY.
16. **Rickenbacher E**, **Perry RE**, Szyba K, Al Ain S, Sullivan RM, Moita M (Nov 2014). Oxytocin in the central nucleus of the amygdale gates freezing allowing for maternal defense responses and transmission of fear to offspring. 44th meeting of the Society for Neuroscience (SfN), Poster presentation, Washington, D.C.
17. **Perry RE**, Al Ain S, McSky K, Wilson, DA, Sullivan RM (Nov 2014). Development of hedonics: Ontogeny of olfactory and limbic system circuits supporting maternal odor and predator odor responses in rats. 44th meeting of the Society for Neuroscience (SfN), Poster presentation, Washington, D.C.
18. **Perry RE** and Sullivan RM (Nov 2014). Neurobehavioral development of fear and aggression following early life abuse. 44th meeting of the Society for Neuroscience (SfN), Poster presentation, Washington, D.C.

19. Diaz-Mataix L, Santini E, Sarro EC, **Perry RE**, Tallow L, LeDoux JE, Klann E, Doyere V, Sullivan RM (Nov 2014). Ontogeny of molecular changes in the amygdala induced by odor-shock learning. 44th meeting of the Society for Neuroscience (SfN), Poster presentation, Washington, D.C.
20. **Perry RE** (July 2015). “The Neurobiology of Mother-Infant Interaction: Typical vs. Atypical Development”, 48th meeting of the International Society for Developmental Psychobiology (ISDP), Chair, San Sebastian, Spain.
21. **Perry RE** and Sullivan RM (July 2015). Neurobehavioral Consequences of Early Life Abuse: Aggression, Fear, and Maternal Protection of Pups, 48th meeting of the International Society for Developmental Psychobiology (ISDP), Oral presentation, San Sebastian, Spain.
22. **Perry RE** and Sullivan RM (Sept 2015). The neurobehavioral response to threat following early life abuse. NYU Neuroscience Doctoral Program Open House, Poster presentation, New York, NY.
23. **Perry RE** and Sullivan RM (Oct 2015). Rescue of neurobehavioral deficits following infant abuse: The role of maternal odor. 45th meeting of the Society for Neuroscience (SfN), Poster presentation, Chicago, IL.
24. **Perry RE** (Feb 2016). Maternal love and brain development. Know Science presents Special Valentine’s Talks on “The Science of Love”, Oral presentation, Lincoln Center, New York, NY.
25. **Perry RE**, Santiago A, and Sullivan RM (March 2016). From trauma to safety: Maternal odor’s rescue of neurobehavioral deficits following infant abuse. 87th meeting of Eastern Psychological Association (EPA), Oral presentation, New York, NY.
26. **Perry RE** (March 2016). The amazing infant brain. Know Science Celebrates Brain Awareness Week: “A Night of Neuroscience”, Oral presentation, The Rockefeller University, New York, NY.
27. **Perry RE**, Sullivan RM, and Wilson DA (April 2016). Development of hedonics: experience-dependent ontogeny of circuits supporting maternal odor and predator odor responses in rats. 38th meeting of the Association for Chemoreception Sciences (AChemS), Poster presentation, Bonita Springs, FL.
28. **Perry RE** (Aug 2016). Know Science presents “The Science of Stress”, Oral presentation, Comic Strip Live, New York, NY.
29. Braren SH, **Perry RE**, Blair C (Sept 2016). Executive function and vocabulary skills mediate effects of parenting and poverty-related risk on early school outcomes. Meeting of the International Mind, Brain and Education Society (IMBES), Poster presentation, Toronto, Canada.
30. **Perry RE**, Santini E, Opendak M, Diaz-Mataix L, Sarro EC, LeDoux JE, Klann E, Doyere V, Sullivan RM (Oct 2016). Ontogeny of molecular changes in the amygdala induced by odor-shock learning. NYU Learning, Development and Timing Workshop, Oral presentation, New York, NY.
31. Opendak MM, **Perry RE**, Barr GA, Sullivan RM. Neonatal pain experienced with the caregiver has life-long consequences for pain and emotion. 63rd meeting of the American Academy of Child & Adolescent Psychiatry (AACAP), Poster presentation, New York, NY.
32. Santiago AN, Lim KY, **Perry RE**, Sullivan RM, Aoki C. Neurodevelopment of parvalbumin cells and perineuronal nets following early life trauma. 63rd meeting of the American Academy of Child & Adolescent Psychiatry (AACAP), Poster presentation, New York, NY.
33. **Perry RE** (Oct 2016). Know Science presents “The Science of Fear”, Oral presentation, Post Office, Brooklyn, NY.
34. Santiago AN, Lim KY, **Perry RE**, Sullivan RM, Aoki C (Nov 2016). Neurodevelopment of parvalbumin cells and perineuronal nets following early life trauma. 46th meeting of the Society for Neuroscience (SfN), Poster presentation, San Diego, CA.
35. Barr GA, Opendak MM, **Perry RE**, Kayser K, Sullivan RM (Nov 2016). Neonatal pain experienced in the presence of the caregiver has short and long-term consequences for pain and emotion. 46th meeting of the Society for Neuroscience (SfN), Nanosymposium presentation, San Diego, CA.
36. **Perry RE** (Nov 2016). The science of stress. Know Science presents talks on “Beating Holiday Stress”, Oral presentation, Post Office, Brooklyn, NY.