

Hannah A. Hathaway, Ph.D

Career Development Program Manager
University of Colorado Anschutz Medical Campus

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EDUCATION AND TRAINING

- January 2014 – July 2018 **Postdoctoral fellow**, Department of Cell and Developmental Biology,
University of Colorado Anschutz Medical Campus, Aurora, CO
Project: The role of mTOR in oligodendrocyte differentiation and myelination
Mentor: Wendy Macklin, Ph.D
- December 2014 **Doctor of Philosophy (Ph.D)** in Pharmacology
Georgetown University, Washington, DC
Dissertation: Function and signal transduction of metabotropic glutamate
receptor 1 in
cerebellar granule cells; Mentor: Jarda Wroblewski, Ph.D
- May 2008 **Bachelor of Arts** in Biochemistry; Molecular, Cellular, and Developmental
Biology
University of Colorado at Boulder, Boulder, CO
2015 - Present
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TEACHING EXPERIENCE AND TRAINING

- August 2023 - Present **General Education Adjunct Faculty**, Biology, Chemistry, and
Pathophysiology
Arizona College of Nursing, Aurora, CO
- 2018 - 2023 **Science teacher**, AP Biology, Biology
DSST: Montview High School, Denver, CO

Biology Content Lead for DSST Charter Network, Jun 2019 - present
- Spring 2017 **Instructor**, Molecular Biology Laboratory (BIOL5125)
Department of Biology, University of Colorado Denver, Denver, CO
- 2016 - 2018 **Lecturer**, Pharmacology (P-99)
Paramedic Academy, St Anthony Hospitals PreHospital Services, Lakewood,
CO
Lectures given: "Pharmacokinetics and Pharmacodynamics", "Math
Calculations", "Autonomic Nervous System", "Drug Classifications".
- 2013 – 2014 **Lecturer**, Advanced Pharmacology (NURS-550)
Nurse Anesthesia Program, Georgetown University, Washington, DC
Lectures given: "Ionotropic Receptors and G Protein-Coupled Receptors"
- 2010 – 2014 **Lecturer**, Introduction to Pharmacology (PHAR-584)
Department of Pharmacology and Physiology, Georgetown University,
Washington, DC
Lectures given: "Anti-Infective Agents"
- 2011, 2013-2014 **Lecturer**, Graduate Pharmacology (PHAR-504)
Department of Pharmacology and Physiology, Georgetown University,

Washington, DC
Lectures given: "Hemostasis and Anti-Coagulants"

2009 – 2014

Tutor, Aspire Academic Coaching, Washington, DC
Topics: Graduate Pharmacology, Biology, AP Chemistry, and AP Calculus

Teacher Training

2022 Mind, Brain, and Education Mini-Conference, Denver Museum of Nature and Science
2021 Mind, Brain, and Education Mini-Conference, Denver Museum of Nature and Science
2019 AP Summer Institute, AP Biology
2016 "Learning How To Teach" workshop, University of Colorado Anschutz Medical Campus
2011 – 2014 Apprenticeship in Teaching Program, Georgetown University

Mentoring

2017 - 2018 Kristin Dahl, Ph.D student, University of Colorado Anschutz Medical Campus
2018 Holly Black, undergraduate student, University of Colorado Anschutz Medical Campus
2018 Jeff Kellmen, Master's student, University of Colorado Anschutz Medical Campus
2014 Nora Welsh, undergraduate, Georgetown University
Currently: Postbac Fellow at National Institutes of Health
2012 Nabihah Hossain, high school student, Holton Arms High School
Currently: George Washington University, Washington, DC
2011 Bernadette White, undergraduate, Georgetown University
Currently: Medical Student, Emory University

PROFESSIONAL EXPERIENCE

March 2024 - Present **Program Manager**, Career Development Office
University of Colorado Denver Anschutz Medical Campus, Aurora, CO

2006 - 2009 **Research assistant**, Mountain States Regional Coagulation Research Lab,
University of Colorado Denver Anschutz Medical Campus, Aurora, CO
Project: How autoantibodies adversely contribute to the pathology of
thrombophilia in children

HONORS/AWARDS

2022 Core Value Award for Curiosity, DSST Public Schools
2021 Sie Award for Teaching Excellence, DSST Public Schools
2020 Teacher Recognition Award, Boettcher Foundation
2017 Second place poster presentation, Postdoctoral Research Day, University of Colorado Denver |
Anschutz Medical Campus
2010 Gertrude Maengwyn-Davies Scholarship Award for academic excellence,
Georgetown University

SERVICE AND LEADERSHIP

2018 – present 500 Women Scientists Denver, co-coordinator
2017 - 2018 President, Postdoctoral Association, University of Colorado Denver | Anschutz
Medical Campus
2015 - 2017 Director of Digital Media, Postdoctoral Association, University of Colorado
Denver | Anschutz Medical Campus
2015 – 2018 Organizer, Glia Journal Club, University of Colorado Anschutz Medical Campus

PUBLICATIONS

1. R Hussain R, **Hathaway HA**, WB Macklin. Deletion of Integrin Linked Kinase in embryonic neural progenitor cells disturbs neuron/glia balance during early spinal cord development. *J Neurosci*, *in review*.
 2. Gelb T, Pshenichkin S, **Hathaway HA**, Grajkowska E, Bowman Dalley C, Wolfe BB, Wroblewski JT. Atypical Signaling of Metabotropic Glutamate Receptor 1 in Human Melanoma Cells. *Biochemical Pharmacology*. *Biochem Pharmacol*. 2015;98(1):182-9.
 3. **HA Hathaway**, S Pshenichkin, E Grajkowska, T Gelb, AC Emery, BB Wolfe, JT Wroblewski. Pharmacological characterization of mGlu1 receptors in cerebellar granule cells reveals biased agonism. *Neuropharmacology*. 2015; 93:199-208.
 4. T Gelb, **HA Hathaway**, JT Wroblewski. Triple Threat Treatment: Exploiting Dependence Receptor Properties of mGlu1 Receptors in Melanoma. *Molecular & Cellular Oncology*. 2014; Oct-Dec; 1(4): e969163.
 5. T Gelb, S Pshenichkin, OC Rodriguez, **HA Hathaway**, E Grajkowska, JO DiRaddo, B Wroblewska, RP Yasuda, C Albanese, BB Wolfe, JT Wroblewski. Metabotropic Glutamate Receptor 1 Acts as a Dependence Receptor Creating a Requirement for Glutamate to Sustain the Viability and Growth of Human Melanomas. *Oncogene*. 2015; 21;34(21):2711-20.
 6. DiRaddo JO, Miller EJ, **Hathaway HA**, Grajkowska E, Wroblewska B, Wolfe BB, Liotta DC, Wroblewski JT. A Real-Time Method for Measuring cAMP Production Modulated by Gai/o-Coupled Metabotropic Glutamate Receptors. *The Journal of Pharmacology and Experimental Therapeutics*. 2014; 349(3):373-82.
 7. D Béraud, **HA Hathaway**, J Trecki, S Chasovskikh, HJ Federoff, M Shimoji, TR Mhyre, and KA Maguire-Zeiss. Microglial activation and antioxidant responses induced by the Parkinson's disease protein α -synuclein. *Journal of Neuroimmune Pharmacology*. 2013; 8(1):94-117.
 8. AC Emery, JO DiRaddo, E Miller, **HA Hathaway**, S Pshenichkin, GR Takoudjou, E Grajkowska, RP Yasuda, BB Wolfe, and JT Wroblewski. Ligand Bias at Metabotropic Glutamate 1a Receptor: Molecular Determinants that Distinguish β -arrestin from G Protein Mediated Signaling. *Molecular Pharmacology*. 2012; 82(2):291-301.
 9. N Goldenberg, L Jacobson, **HA Hathaway**, M Tripputi, J Primeaux, J Childs. Stability of Diluted Dalteparin, *Annals of Pharmacotherapy* 2008; 42(4):511-5.
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PRESENTATIONS AND ABSTRACTSOral Presentations

1. **HA Hathaway** and WB Macklin. 2017. Absence of mTORC2 signaling in oligodendrocyte precursor cells hinders differentiation and myelination. American Society of Neurochemistry Annual Meeting, Little Rock, AR.
2. **HA Hathaway**, EL Joachim, L Jacobson, CG Bombardier, NA Goldenberg, WE Hathaway, MJ Manco-Johnson. 2008. In a Prospective Inceptional Cohort Study of Children with Thrombosis, a Persistently Positive Dilute Russell Viper Venom Time Is Associated with Thrombus Progression or Recurrence and Multiple Antiphospholipid Antibodies. American Society of Hematology Annual Meeting, San Francisco, CA.

Poster Presentations

1. **HA Hathaway**, E Golden, M Lucera, L Chuey, S Farabi, V Minarchick, Q Liu, D Reed, R Sen, B Mandt. 2018. Using Postdoctoral Association Events to Enhance Scientific Communication Skills. National Postdoctoral Association Annual Conference, Cleveland, OH.
 2. **HA Hathaway**, KD Dahl, T Brown, WB Macklin. 2018. Region-specific requirement for mTORC2 in proper developmental myelination. Myelin Gordon Research Conference, Ventura, CA.
 3. **HA Hathaway**, WB Macklin. 2017. Expression of Rictor in oligodendrocyte precursor cells is required for proper maturation and myelination. Society for Neuroscience Annual Meeting, Washington, DC.
 4. **HA Hathaway** and WB Macklin. 2017. Absence of mTORC2 signaling in oligodendrocyte precursor cells hinders differentiation and myelination. American Society of Neurochemistry Annual Meeting, Little Rock, AR.
 5. **HA Hathaway**, S Pshenichkin, JT Wroblewski. 2014. Activation of Metabotropic glutamate receptor 1 overcomes NMDA receptor mediated excitotoxicity. Society for Neuroscience Annual Meeting, Washington, DC.
 6. **HA Hathaway**, S Pshenichkin, J DiRaddo, T Gelb, J Lee, E Grajkowska, JT Wroblewski. 2013. β -arrestin dependent signaling of metabotropic glutamate receptor 1. Experimental Biology Annual Meeting, Boston, MA.
 7. **HA Hathaway**, S Pshenichkin, J DiRaddo, T Gelb, J Lee, E Grajkowska, JT Wroblewski. 2012. Characterization of β -arrestin dependent signaling of metabotropic glutamate receptor 1 splice variants. Society for Neuroscience Annual Meeting, New Orleans, LA.
 8. JO DiRaddo, **HA Hathaway**, S. Pshenichkin, T. Gelb, J. Wroblewski. 2012. Two newly identified exons in human GRM1 express a novel splice variant of the metabotropic glutamate 1 receptor. Society for Neuroscience Annual Meeting, New Orleans, LA.
 9. **HA Hathaway**, A Emery, J DiRaddo, G Takoudjou, S Pshenichkin, E Grajkowska, JT Wroblewski. 2011. Ligand bias at metabotropic glutamate receptor 1 is mediated by differential activation of beta-arrestin dependent signal transduction cascade. Society for Neuroscience Annual Meeting, Washington, DC.
 10. **HA Hathaway**, S Pshenichkin, AC Emery, J DiRaddo, GR Takoudjou, E Grajkowska and JT Wroblewski. 2011. The protective effect of glutamate in primary cultures of cerebellar neurons is mediated through mGlu1-dependent activation of the MAPK cascade. International Meeting on Metabotropic Glutamate Receptors, Taromina, Italy.
 11. **HA Hathaway**, L Jacobson, NA Goldenberg, MJ Manco-Johnson. 2007. Comprehensive Antiphospholipid Antibody Testing in Children with Acute Thromboembolism: Preliminary Findings from a Prospective Inceptional Cohort Study. American Society of Hematology Annual Meeting, Atlanta, GA.
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