

Haley  
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University of Calgary, Calgary, AB, Canada  
PhD Candidate in Neuroscience

September 2014  
—Present

**Thesis:**

*Neuroinflammatory and Endocannabinoid Signaling in the Regulation of Emotional Behaviour in Colitis*

**Relevant Coursework:**

neurobiology of mental illness, theory & practice of university teaching and STEM teaching development (SoTL Advancing Graduate Education in STEM; SAGES Program)

University of Calgary, Calgary, AB, Canada  
MSc. Neuroscience

September 2012  
—September 2014

**Thesis:**

*Temporal Mapping of Stress Induced Central and Circulating Cytokine Production; Possible Role of Endocannabinoid Signalling*

**Relevant Coursework:**

molecular/cellular and developmental neuroscience, systems neuroscience and neuropathology, inflammation, neuroimmunology

Barnard College, Columbia University, New York City, NY, USA  
B.A. Neuroscience and Behavior, Cellular Concentration

September 2006  
—May 2010

**Thesis:**

*Identification and Anatomic Characterization of Dendritic Cells in the Brain Following Intranasal Administration of Copolymer 1*

**Relevant Coursework:**

introductory biology lectures & laboratories, genetics, cell biology lecture & laboratory, molecular & cellular neuroscience lecture & laboratory, introduction to psychology, fundamentals of neuropsychology, behavioral neuroscience, neuroethics, neuropharmacology, drugs & behavior, hormones & behavior, neurodevelopmental processes, general chemistry lecture & laboratory, organic chemistry lecture & laboratory, biochemistry, psych statistics, research apprenticeship seminar, senior thesis seminar

Dean's List  
Student Leader Award

2009-2010  
2009

Peer Reviewed Journal Articles:

VanRyzin JW, Marquardt AE, Argue KJ, **Vecchiarelli HA**, Ashton SE, Arambula SE, Hill MN, McCarthy MM. Microglial Phagocytosis of Newborn Cells Is Induced by Endocannabinoids and Sculptures Sex Differences in Juvenile Rat Social Play.

*Neuron*. 2019 Apr 17;102(2):435-449.e6. doi: 10.1016/j.neuron.2019.02.006. Epub 2019 Feb 28.

Morena M, Aukema RJ, Leitl KD, Rashid AJ, **Vecchiarelli HA**, Josselyn SA, Hill MN.

Upregulation of Anandamide Hydrolysis in the Basolateral Complex of Amygdala Reduces Fear Memory Expression and Indices of Stress and Anxiety.

*J Neurosci*. 2018 Dec 20. pii: 2251-18. doi: 10.1523/JNEUROSCI.2251-18.2018. [Epub ahead of print]

Guo Z, Tse YC, Zhang Y, Sun Q, **Vecchiarelli HA**, Aukema R, Hill MN, Wong TP, Boksa P.

Prenatal immune activation potentiates endocannabinoid-related plasticity of inhibitory synapses in the hippocampus of adolescent rat offspring.

*Eur Neuropsychopharmacol*. 2018 Dec;28(12):1405-1417. doi: 10.1016/j.euroneuro.2018.09.003. Epub 2018 Sep 23.

Mayo LM, Asratian A, Lindé J, Holm L, Nätt D, Augier G, Stensson N, **Vecchiarelli HA**, Balsevich G, Aukema RJ, Ghafouri B, Spagnolo PA, Lee FS, Hill MN, Heilig M.

Protective effects of elevated anandamide on stress and fear-related behaviors: translational evidence from humans and mice. *Mol Psychiatry*. 2018 Aug 17. doi: 10.1038/s41380-018-0215-1. [Epub ahead of print]

## Peer Reviewed Journal Articles:

Myers KA, **Vecchiarelli HA**, Damji O, Hill MN, Kirton A.

Significance of BDNF Val66Met Polymorphism in Brain Plasticity of Children.

*Pediatr Neurol.* 2017 Jan;66:e1-e2. doi: 10.1016/j.pediatrneurol.2016.09.015. No abstract available.

Morena M, Leitt KD, **Vecchiarelli HA**, Gray JM, Campolongo P, Hill MN.

Emotional arousal state influences the ability of amygdalar endocannabinoid signaling to modulate anxiety.

*Neuropharmacology.* 2016 Aug 20;111:59-69. doi: 10.1016/j.neuropharm.2016.08.020. [Epub ahead of print].

Kiryanova V, Meunier SJ, **Vecchiarelli HA**, Hill MN, Dyck RH.

Effects of maternal stress and perinatal fluoxetine exposure on behavioral outcomes of adult male offspring.

*Neuroscience.* 2016 Apr 21;320:281-96. doi: 10.1016/j.neuroscience.2016.01.064. Epub 2016 Feb 9.

**Vecchiarelli HA\***, Gandhi CP\*, Hill MN.

Acute Psychological Stress Modulates the Expression of Enzymes Involved in the Kynurenine Pathway throughout Corticolimbic Circuits in Adult Male Rats.

*Neural Plast.* 2016;2016:7215684. doi: 10.1155/2016/7215684. Epub 2015 Dec 27.

Dickens MJ, **Vecchiarelli HA**, Hill MN, Bentley GE.

Endocannabinoid Signaling in the Stress Response of Male and Female Songbirds.

*Endocrinology.* 2015 Dec;156(12):4649-59. doi: 10.1210/en.2015-1425. Epub 2015 Oct 2.

Ming Q, Morena M, **Vecchiarelli HA**, Hill MN, Schreimer D.

A robust capillary LC-MS/MS method for quantitation of neuromodulatory endocannabinoids.

*Rapid Commun Mass Spectrom.* 2015 Oct 30;29(20):1889-97. doi: 10.1002/rcm.7277.

**Vecchiarelli HA**, Gandhi CP, Gray JM, Morena M, Hassan K, Hill MN.

Divergent responses of inflammatory mediators within the amygdala and medial prefrontal cortex to acute psychological stress.

*Brain Behav Immun.* 2016 Jan;51:70-91. doi: 10.1016/j.bbi.2015.07.026. Epub 2015 Aug 7.

Qin Z, Zhou X, Pandey NR, **Vecchiarelli HA**, Stewart CA, Zhang X, Lagace DC, Brunel JM, Beique JC, Stewart AFR, Hill MN, Chen HH.

Chronic stress induces anxiety via an amygdalar intracellular cascade that impairs endocannabinoid signaling.

*Neuron.* 2015 Mar 18;85(6):1319-31. doi: 10.1016/j.neuron.2015.02.015. Epub 2015 Mar 5.

Gray JM, **Vecchiarelli HA**, Lee TTY, Morena M, Hermanson D, Kim AB, Hassan K, McLaughlin RJ, Deussing JM, Patel S, Hill MN.

Corticotrophin releasing hormone drives anandamide hydrolysis to promote anxiety.

*J Neurosci.* 2015 Mar 4;35(9):3879-92. doi: 10.1523/JNEUROSCI.2737-14.2015.

Ramasubbu R, **Vecchiarelli HA**, Hill MN, Kiss Z.

Reduction in serum brain derived neurotrophic factor concentration in responders to subcallosal deep brain stimulation.

*World J Biol Psychiatry.* 2015 Feb;16(2):135-8. doi: 10.3109/15622975.2014.952775. Epub 2014 Sep 17.

Gottfried-Blackmore A\*, Jellinck PH\*, **Vecchiarelli HA**, Masheeb Z, Kaufmann M, McEwen BS, Bulloch K.

7- $\alpha$ -Hydroxylation of dehydroepiandrosterone does not interfere with the activation of glucocorticoids by 11- $\beta$ -hydroxysteroid dehydrogenase in EtC cerebellar neurons.

*J Steroid Biochem Mol Biol.* 2013 Nov;138:290-7. doi: 10.1016/j.jsbmb.2013.07.001. Epub 2013 Jul 12.

D'Agostino PM, Kwak C, **Vecchiarelli HA**, Toth JG, Miller JM, Masheeb Z, McEwen BS, Bulloch K.

Viral-induced encephalitis initiates distinct and functional CD103<sup>+</sup> CD11b<sup>+</sup> brain dendritic cell populations within the olfactory bulb.

*Proc Natl Acad Sci U S A.* 2012 Apr 17;109(16):6175-80. doi: 10.1073/pnas.1203941109. Epub 2012 Apr 2.

## Chapters:

Gray JM, **Vecchiarelli HA**, Hill MN. (2014).

Chapter 5: Endocannabinoid Signalling and Synaptic Plasticity During Stress

*Synaptic Stress and Pathogenesis of Neuropsychiatric Disorders.* Popoli M., Diamond D., Sancora G. (Eds). 2014, XIV, 355. Springer Science + Business Media, 2014.

## Posters &amp; Presentations:

**Vecchiarelli HA.**

Interactions Between Endocannabinoids and Neuroinflammation in a Rat Model of Colitis.

Oral Presentation by **Vecchiarelli HA** at the Gordon Research Conference, Cannabinoid Function in the CNS, July 2019, Castelldefels, Spain.

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Qiao, M, Keenan C, Baglot S, Aukema R, Petrie G, Pittman Q, Sharkey KA, Hill MN. Investigating the relationship between inflammation and endocannabinoids in the amygdala during colitis. Presented by **Vecchiarelli HA** at the 29th International Cannabinoid Research Society Meeting, June 2018, Washington DC, USA.

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Qiao, M, Keenan C, Baglot S, Aukema R, Petrie G, Pittman Q, Sharkey KA, Hill MN. Investigating the relationship between inflammation and endocannabinoids in the amygdala during colitis. Presented by **Vecchiarelli HA** at the 32th Annual Canadian Student Health Research Forum, June 2017, Winnipeg, MB, Canada. Supported by UofC Vice President of Research's Office Travel Award.

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Qiao, M, Keenan C, Baglot S, Aukema R, Petrie G, Pittman Q, Sharkey KA, Hill MN. Examining the interplay between inflammation and endocannabinoids in the amygdala during colitis. Presented by **Vecchiarelli HA** at the 13th Annual Canadian Association for Neuroscience Annual Meeting, May 2019, Toronto, ON, Canada. Supported by Hotchkiss Brain Institute Keith Sharkey Graduate Travel Award.

**Vecchiarelli HA.**

Anxiety Comorbid with Colitis is Mediated by a Loss of Central Endocannabinoid Signaling

Trainee Research Award Spotlight Talk by **Vecchiarelli HA** at the 6th Annual Canadian Consortium for the Investigation of Cannabinoids Conference, March 2019, Toronto, ON, Canada.

Supported by 2019 Trainee Research Spotlight Award.

**Vecchiarelli HA.**

Colitis Induced Anxiety Is Mediated Through A Suppression of Central Anandamide Levels.

Invited talk by **Vecchiarelli HA** at Université Laval, February 2019, Quebec City, QC, Canada.

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Santori A, Keenan C, Sticht M, Leitl K, Ho W, Qiao M, Sharkey KA, Hill MN. Colitis induced anxiety is mediated through a corticotropin-releasing factor receptor 1 suppression of central anandamide signaling. Oral Presentation by **Vecchiarelli HA** at the 14th International Congress of Neuroimmunology (ISNI), August 2018, Brisbane, Australia. Supported by Canadian Neuroimmunology Dissemination Grant.

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Santori A, Keenan C, Sticht M, Leitl K, Ho W, Qiao M, Sharkey KA, Hill MN. A CRF-R1-Mediated Suppression of Anandamide Signaling is Necessary for Colitis-Induced Anxiety. Presented by **Vecchiarelli HA** at the 41th Annual Meeting of the Japan Neuroscience Society, July 2018, Kobe, Japan. Supported by Japan Neuroscience Society Travel Award.

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Santori A, Keenan C, Sticht M, Leitl K, Ho W, Qiao M, Sharkey KA, Hill MN. Colitis promotes anxiety through a corticotropin-releasing factor receptor 1 mediated suppression of central anandamide signaling. Presented by **Vecchiarelli HA** at the 11th FENS Forum, July 2018, Berlin, Germany. Supported by University of Calgary Faculty of Graduate Studies Travel Award.

**Vecchiarelli HA**, Morena M, Sharkey KA, Hill MN.

Sex Differences In The Modulation Of Endocannabinoid Content By Peripheral Inflammation.

Presented by **Vecchiarelli HA** at the 28th International Cannabinoid Research Society Meeting, June 2018, Leiden, Netherlands. Supported by University of Calgary Faculty of Graduate Studies Travel Award.

**Vecchiarelli HA.**

Colitis Promotes Anxiety through a Corticotropin-releasing Factor Receptor 1 Mediated Suppression of Central Anandamide Signaling. Invited talk by **Vecchiarelli HA** at the University of Minnesota, Addition Medical Discovery Team, Minneapolis, MN, USA.

## Posters &amp; Presentations:

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Santori A, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Colitis promotes anxiety through a corticotropin-releasing factor receptor 1 mediated suppression of central anandamide signaling.  
Presented by **Vecchiarelli HA** at the 2018 Neurobiology of Stress Meeting, June 2018, Banff, AB, Canada.  
Poster Prize Recipient

**Vecchiarelli HA**, Tan K, Chiang V, Morena M, Santori A, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Colitis promotes anxiety through a CRF-R1 mediated suppression of central anandamide signaling.  
Presented by **Vecchiarelli HA** at the Canadian Association of Neuroscience Annual Meeting, May 2018, Vancouver, BC, Canada.

**Vecchiarelli HA**, Tan K, Morena M, Santori A, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Colitis Promotes Anxiety Through a CRFR1 Mediated Suppression of Central Anandamide Signaling.  
Presented by **Vecchiarelli HA** at the American College of Neuropsychopharmacology Annual Meeting, December 2017, Palm Desert, CA, USA.  
Supported by Mathison Centre for Mental Health Research and Education Travel Award.

**Vecchiarelli HA**, Morena M, Tan K, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Peripheral inflammation promotes anxiety through a CRF-R1 mediated suppression of central anandamide signaling.  
Presented by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, November 2017, Washington DC, USA.  
Supported by HBI Arun Anbazhagan SfN Travel Award.

**Vecchiarelli HA**, Morena M, Tan K, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Peripheral Inflammation Promotes Anxiety Through a CRF-R1 Mediated Suppression of Central AEA Signaling.  
Oral Presentation by **Vecchiarelli HA** at the Gordon Research Seminar, Cannabinoid Function in the CNS and Presented by **Vecchiarelli HA** at the Gordon Research Conference, Cannabinoid Function in the CNS, August 2017, Waterville Walley, NH, USA.

**Vecchiarelli HA**, Morena M, Tan K, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Sustained Peripheral Inflammation Triggers Central Anandamide Hydrolysis to Promote Anxiety.  
Presented by **Vecchiarelli HA** at Stress: Past, Present and Future Directions, June 2017, Princeton, NJ, USA.  
Supported by Stress Meeting Travel Award.

**Vecchiarelli HA**, Morena M, Tan K, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Dynamic Regulation of the Central Endocannabinoid System Induced by Colitis.  
Oral Presentation by **Vecchiarelli HA** at the 27th International Cannabinoid Research Society Meeting, June 2017, Montreal, QC, Canada.  
Supported by ICRS Travel Award.

**Vecchiarelli HA**, Morena M, Tan K, Keenan C, Sticht M, Leidl K, Ho W, Qiao M, Sharkey KA, Hill MN.  
Sustained Peripheral Inflammation Triggers Central Anandamide Hydrolysis to Promote Anxiety.  
Presented by **Vecchiarelli HA** at the 30th Annual Canadian Student Health Research Forum, June 2017, Winnipeg, MB, Canada.  
Supported by UofC Vice President of Research's Office Travel Award.

**Vecchiarelli HA**, Tan K, Morena M, Sticht M, Keenan C, Ho W, Sharkey KA, Hill MN.  
Sustained Peripheral Inflammation Triggers Central Anandamide Hydrolysis to Promote Anxiety.  
Presented by **Vecchiarelli HA** at the 11th Annual Canadian Association for Neuroscience Meeting, May 2017, Montreal QC, Canada.  
Supported by CAN IBRO Travel Award.

**Vecchiarelli HA**, Tan K, Morena M, Keenan C, Ho W, Sticht M, Leidl K, Sharkey KA, Hill MN.  
Anxiety induced by peripheral inflammation is reversed by acute inhibition of fatty acid amide hydrolase.  
Oral Presentation by **Vecchiarelli HA** at the Canadian Spring Conference on Behaviour and Brain, February 2017, Fernie, BC, Canada.

## Posters &amp; Presentations:

**Vecchiarelli HA**, Tan K, Keenan C, Morena M, Sticht M, Ho W, Sharkey KA, Hill MN.

Peripheral Inflammation Triggers Anandamide Hydrolysis to Promote Anxiety

Presented by **Vecchiarelli HA** at the Gordon Research Conference Neuro-Immune Interactions During Homeostasis and Neurological Disorders, January 2017, Ventura, CA, USA

**Vecchiarelli HA**, Morena M, Sticht M, Keenan C, Ho W, Sharkey KA, Hill MN.

Sustained peripheral inflammation triggers anandamide hydrolysis to promote anxiety.

Presented by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, October 2016, San Diego, CA, USA.

Supported by HBI Conference Travel Award.

**Vecchiarelli HA**, Morena M, Sticht M, Keenan KM, HO W, Sharkey KA, Hill MN.

Colitis Alters Endocannabinoid Signalling in Corticolimbic Brain Structures in the Adult Male Rat

Presented by **Vecchiarelli HA** at the 10th FENS Forum, July 2016, Copenhagen, Denmark.

Supported by FENS IBRO/PERC and Brain Canada Travel Awards.

**Vecchiarelli HA**, Morena M, Sticht M, Keenan KM, HO W, Sharkey KA, Hill MN.

Inhibition of anandamide hydrolysis reverses anxiety induced by sustained peripheral inflammation.

Oral Presentation by **Vecchiarelli HA** at the 26th International Cannabinoid Research Society Meeting, June 2016, Bukovina, Poland

Supported by CCIC, ICRS and Brain Canada Travel Awards.

**Vecchiarelli HA**, Lee TTY, Morena M, Gray JM, Hill MN.

Dynamic Endocannabinoid Response to Stress Exposure: Influenced by Sex and Stressor Intensity.

Presented by **Vecchiarelli HA** at the 2016 Neurobiology of Stress Workshop, April 2016, Irvine, CA, USA.

Supported by Neurobiology of Stress Travel Award.

**Vecchiarelli HA**, Lee TTY, Morena M, Gray JM, Hill MN.

Dynamic Endocannabinoid Responses to Stress Are Influenced by Both Sex and Stressor Intensity.

Oral Presentation by **Vecchiarelli HA** at the Canadian Spring Conference on Behaviour and Brain, February 2016, Fernie, BC, Canada.

**Vecchiarelli HA**, Lee TTY, Morena M, Gray JM, Hill MN.

Dynamic endocannabinoid responses to stress are influenced by both sex and stressor intensity.

Oral Presentation by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, October 2015, Chicago, IL, USA.

Supported by SfN Trainee Professional Development Grant.

**Vecchiarelli HA**, Keenan KM, Ho W, Morena M, Gray JM, Bashashati M, Sharkey KA, Hill MN.

Chronic colitis modifies corticolimbic endocannabinoid levels.

Presented by **Vecchiarelli HA** at the 9th World Congress of the International Brain Research Organization, July 2015, Rio de Janeiro, Brazil

Supported by IBRO Travel Grant.

**Vecchiarelli HA**, Gandhi CP, Gray JM, Morena M, Hassan K, Hill MN.

Divergent Amygdalar and Prefrontal Cortex Delayed Inflammatory Mediator Responses to Acute Psychological Stress Exposure.

Presented by **Vecchiarelli HA** at the 22nd Annual Psychoneuroimmunology Research Society Meeting, June 2015, Seattle, WA, USA.

**Vecchiarelli HA**, Keenan KM, HO W, Morena M, Gray JM, Bashashati M, Sharkey KA, Hill MN.

Colitis alters central endocannabinoid content.

Oral Presentation by **Vecchiarelli HA** at the Canadian Spring Conference on Behaviour and Brain, February 2015, Fernie, BC, Canada.

**Vecchiarelli HA**, Gray JM, Hassan K, Gandhi CP, Hill V, Hill MN.

Acute psychological stress induced circulating and central cytokine production.

Presented by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, November 2014, Washington, DC, USA.

Supported by GSE Travel Grant.

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## Posters & Presentations:

**Vecchiarelli HA**, Gray JM, Hassan K, Gandhi CP, Hill V, Hill MN.

Acute psychological stress induced circulating and central cytokine production.

Presented by **Vecchiarelli HA** at the 9th FENS Forum, July 2014, Milan, Italy.

Supported by SfN FENS Forum Travel Award.

**Vecchiarelli HA**, Keenan KM, Gray JM, Hassan K, Bashashati M, Sharkey KA, Hill MN.

Colitis alters central endocannabinoid content.

Presented by **Vecchiarelli HA** at the International Cannabinoid Research Society Annual Meeting, June 2014, Baveno, Italy.

Supported by CCIC and ICRS Travel Awards.

**Vecchiarelli HA**, Gray JM, Hassan K, Gandhi CP, Hill V, Hill MN.

Acute psychological stress induced circulating and central cytokine production.

Oral Presentation by **Vecchiarelli HA** at the Canadian Spring Conference on Behaviour and Brain, February 2014, Fernie, BC, Canada.

**Vecchiarelli HA**, Lee TT, Gray JM, Hill MN.

Sex differences observed in the effects of acute and repeated restraint stress on limbic endocannabinoid function.

Presented by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, November 2013, San Diego, CA, USA.

Supported by URGC Travel Award.

**Vecchiarelli HA**, Lee TT, Gray JM, Hill MN.

Sex dependent effects of repeated stress on limbic endocannabinoid function.

Presented by **Vecchiarelli HA** at the International Cannabinoid Research Society Annual Meeting, June 2013, Vancouver, CB, Canada

Supported by ICRS Travel Award.

**Vecchiarelli HA**, Kaunzner U, Gal Toth J, Bulloch K.

EYFP+ dendritic cells observed juxtaposed with ACTH+ cells in the pituitary of the Itgax(CD11c)-EYFP+ mouse.

Presented by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, October 2012, New Orleans, LA, USA.

**Vecchiarelli HA**, D'Agostino PM, Kwak C, Gal Toth J, Bulloch K.

Investigating the origins of vesicular stomatitis virus-stimulated dendritic cell populations in the olfactory bulb.

Presented by **Vecchiarelli HA** at the Society for Neuroscience Annual Meeting, November 2011, Washington D.C., USA.

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## Research and Stipend Awards

Izaak Walton Killam Doctoral Scholarship PhD Grant \$36000 CDN *(declined year 1)	May 2018-May 2020
Vanier Canadian Graduate Studentship (CIHR) PhD Grant \$150000 CDN	May 2016-May 2019
Alberta Innovates-Health Solutions Incentive Award \$48,000 CDN *(top-up)	July 2015-June 2019
Branch Out Neurological Foundation PhD Grant \$24000 CDN *(declined years 2-4)	September 2015-September 2016
University of Calgary Achievers in Medical Science Research Excellence Award \$14000 CDN	September 2015-December 2018
University of Calgary, Graduate Students' Association Quality Money Grant \$5000 CDN	May 2015
University of Calgary Distinguished Faculty Achievement Scholarship \$4000 CDN	January 2015-April 2015
University of Calgary, Hotchkiss Brain Institute Dr. T Chen Fong Doctoral Scholarship \$96000 CDN *(declined)	December 2014-December 2017
University of Calgary Achievers in Medical Science Recruitment Scholarship \$25000 CDN	September 2014-August 2015
University of Calgary Eyes High International Doctoral Scholarship \$12000 CDN	September 2014-August 2015
Canadian Consortium for the Investigation of Cannabinoids Graduate Student Summer Research Support \$5000 CDN	May 2013-August 2013
United States Department of Education SMART Grant \$2000 USD	September 2009-May 2010
Barnard College Donald & Nancy Ritchie Fund; Edna Henry Bennet Fund	May 2009-August 2009
National Science Foundation (NSF) Research Experience for Undergraduates \$4500 USD	May 2008-August 2008
Barnard College HHMI Sponsored Research Stipend \$4000 USD	May 2007-August 2007

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## Travel and Other Awards

Canadian Student Health Research Forum University of Calgary Nominee (Top 5% PhD Students) University of Calgary Vice President Research Office Travel Award \$1000 CAD	June 2017
University of Calgary, Graduate Students' Association Leadership Award \$5000 CAD	May 2019
University of Calgary, Hotchkiss Brain Institute Keith Sharkey Graduate Travel Award \$1000 CAD	April 2019
Canadian Consortium for the Investigation of Cannabinoids Trainee Research Spotlight Award \$1000 CAD	March 2019
International Society of Neuroimmunology Canadian Knowledge Dissemination Grant \$1000 CAD	August 2018
University of Calgary Faculty of Graduate Studies Travel Award \$1000 CAD	April 2018
University of Calgary—Department of Psychiatry Most Innovative Presentation by a Graduate Student \$250 CAD	March 2018
Japan Neuroscience Society Travel Award to JNS Annual Meeting ¥150000 JPY	January 2018
Society for Neuroscience Travel Award to JNS Annual Meeting \$2000 USD *(declined)	January 2018
Hotchkiss Brain Institute Arun Anbazhagan SfN Travel Award \$1000 CAD	October 2017
Princeton University - Stress: Past, Present and Future Directions Travel Award \$1000 USD	June 2017
International Cannabinoid Research Society Student Travel Award \$350 USD	June 2017
Canadian Student Health Research Forum University of Calgary Nominee (Top 5% PhD Students) University of Calgary Vice President Research Office Travel Award \$1000 CAD	April 2017
International Brain Research Organization Canadian Association for Neuroscience Meeting Travel Award \$500 CAD	March 2017
Brain Canada Dr. Hubert van Tol Travel Fellowship Award \$5000 CAD	November 2016



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## Travel and Other Awards

Hotchkiss Brain Institute HBI Conference Travel Award \$500 CAD	October 2016
Catania International Summer School of Neuroscience Travel Award €500 EURO	July 2016
Federation of European Neuroscience Societies (FENS) FENS-IBRO/PERC Travel Award €600 EURO	June 2016
Canadian Consortium for the Investigation of Cannabinoids Trainee Travel Award \$1250 CAD	June 2016
International Cannabinoid Research Society Student Travel Award \$550 USD	June 2016
University of Calgary, Graduate Students' Association Lifetime Achievement Award	April 2016
Neurobiology of Stress Workshop Travel Award \$750 USD	April 2016
Hotchkiss Brain Institute PhD Researcher of the Year	March 2016
Hotchkiss Brain Institute Publication Award \$100 CAD	January 2016
Government of Alberta Graduate Citizenship Award \$2000 CAD	October 2015
Society for Neuroscience Trainee Professional Development Award \$1000 USD	April 2015
University of Calgary, Graduate Students' Association Professional Development Grant \$500 CAD	April 2015
International Brain Research Organization IBRO World Congress Travel Award €1400 EURO	March 2015
University of Calgary Graduate Science Education Travel Award \$600 CAD	March 2015
Government of Alberta Graduate Citizenship Award \$2000 CAD	October 2014
Canadian Consortium for the Investigation of Cannabinoids Trainee Travel Award \$1000 CAD	June 2014

## PERSONAL

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## AWARDS

## Travel and Other Awards

International Cannabinoid Research Society Student Travel Award \$550 USD	June 2014
Society for Neuroscience FENS Forum Travel Award \$2000 USD	March 2014
University of Calgary URGC International Grad Student Travel Award \$750 CAD	October 2013
Hotchkiss Brain Institute Student Traveling Fellowship for a Course \$1600 CAD	September 2013
International Cannabinoid Research Society Student Travel Award \$550 USD	June 2013

## PERSONAL

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## ACTIVITIES

University of Calgary, Hotchkiss Brain Institute Equity, Diversity and Inclusion Committee Member (Trainee Representative)	September 2018 —Present
University of Calgary U Make a Difference Awards Adjudication Committee Member	March 2018 —May 2019
University of Calgary Teaching Awards Adjudication Committee Member	February 2018 —April 2018
Gordon Research Seminar (Cannabinoid Function in CNS) 2019 GRS Co-Chair	August 2017 —August 2019
International Cannabinoid Research Society Trainee Representative, Board of Directors	June 2017 —June 2019
International Cannabinoid Research Society Meeting Program Committee Member	June 2017, June 2018
University of Calgary, Cumming School of Medicine Physiology and Pharmacology Department Headship Review Committee Member	January 2017 —July 2017
University of Calgary, Cumming School of Medicine Medical Genetics Department Headship Review Committee Member	January 2017 —May 2017
University of Calgary, University Animal Welfare Committee Graduate Student Member	September 2016 —August 2019
University of Calgary, Graduate Science Education Unit and Curriculum Review Committee Member	August 2016 —March 2018
University of Calgary, Department of Psychiatry Search & Selection Committee—Neurostimulation for Psychiatric Conditions	August 2016 —February 2017
University of Calgary Graduate Leaders Circle (Lead 2018-2019)	May 2016 —Present
University of Calgary, Cumming School of Medicine Medicine Alumni Advisory Council, Alumni Award of Distinction Selection Committee	April 2016 —October 2019
University of Calgary, Department of Psychiatry Search & Selection Committee—Cuthbertson and Fischer Chair in Pediatric Mental Health	November 2015 —August 2017
University of Calgary, Mathison Centre for Mental Health Research & Education Planning Committee, Mental Health Research Day	April 2015 —March 2019
University of Calgary, Cumming School of Medicine Member, Faculty Merit Committee	November 2015
University of Calgary, Council of Foothills DGAs Co-Chair (2015-2016) Chair (2016-2017) Graduate Student Representative, Faculty Council (2016-2017) Graduate Student Representative, Executive Faculty Council (2016-2017) Graduate Student Representative, Graduate Science Education Committee (2016-2017)	May 2015 —May 2017
University of Calgary, Graduate Students' Association Student Experience Committee (Chair 2014-2016) Newcomers and International Students Committee (Chair 2016-2017) Awards Committee (Chair 2017-2019) Clerk, Graduate Representative Council (2017-2019) External Relations Committee Labour Relations Committee (Medicine Representative, 2018-2019) Senior Leadership Team (2014-2018)	September 2014 —May 2019

## PERSONAL

**Haley  
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Vecchiarelli**

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## ACTIVITIES

Hotchkiss Brain Institute Summer Student Summer Programming Organizer	August 2014, 2015, 2016, 2017
University of Calgary, Cumming School of Medicine Cumming School of Medicine Symposium Planning Committee	September 2013 —May 2018
University of Calgary, Department of Neuroscience Maintain Department Website (TA-ship)	September 2013 —September 2014
Hotchkiss Brain Institute Research Day Trainee Poster Session Organizer	June 2013, 2014, 2015
Calgary Youth Science Fair Judge	April 2013, 2014, 2015
Calgary Brain Bee Planning Committee Member	March 2013 —March 2018
Hotchkiss Brain Institute Trainee Organization (HBITO) Orientation Committee (Chair, 2013) Education Committee Outreach Committee Social Committee Webmaster (2016-2018) Intramural Dodgeball Team Co-/Captain (2014-2015)	September 2012 —August 2018
Barnard College Barnard Alumna Admissions Representative	September 2012 —Present
New York Academy of Sciences-STEM Mentoring Program NYAS Education Fellow-Genetics	September 2011 —May 2012
Biobus-Science Education for Social Change Volunteer Educator	September 2011 —August 2012
Barnard College Alumnae-to-Student Mentoring Program Mentor	August 2010 —August 2012
Columbia Undergraduate Science Journal Executive Vice President, Production & Technology	September 2008 —May 2010
Columbia Daily Spectator Production Editor (Managing Board Member) Senior Staff Photographer	September 2006 —May 2010

## SKILLS &amp; INTERESTS

## Professional Organization Memberships:

Society for Neuroscience  
International Cannabinoid Research Society  
Canadian Consortium for the Investigation of Cannabinoids  
Canadian Association of Neuroscience

## Software:

Adobe Creative Suite 1-6 (InDesign, Illustrator, Photoshop, Fireworks, Dreamweaver, Bridge, Lightroom, Acrobat Reader, Acrobat Pro), STATA, SPSS, Graphpad Prism, ImageJ, FlowJo, DIVA, Quark, Refman, EndNote, Mendeley, Microsoft Office Suite, MAC/Windows/Chrome/Linux OS, Leica Application Suite, Ethovision

## Languages:

Conversational Spanish & Italian  
Basic HTML & CSS

## Interests:

Science outreach and science education policy, feminism, graphic design, photography