

Curriculum Vitae

Erik Geoffrey Hayman, MD
Fellow, Swedish Neuroscience Institute
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Date

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Contact Information

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Foreign languages: Spanish

Education

2007 B.S., Chemistry, Boston College
2012 M.D., University of Colorado Health Sciences Center

Post-graduate education/training

2009-10 *Research Fellow*, HHMI Medical Research Fellowship/Renier Brentjens Lab, Memorial Sloan Kettering, New York, NY
2012-2019 *Resident*, Department of Neurosurgery, University of Maryland Medical Center, Baltimore, MD
2019-2020 *Fellow*, Complex and Minimally Invasive Spine, Swedish Neuroscience Institute, Seattle, WA

Certifications

2012 *Basic/Advanced Cardiac Life Support*, American Red Cross

Employment History

2006-2007 Assistant Scientist, Department of Drug Metabolism and Pharmacokinetics, Millennium Pharmaceuticals, Cambridge, MA

Honors and Awards

2007 Phi Beta Kappa Society, Boston College
2007 Merck Index Book Award, Department of Chemistry, Boston College

Grant Support

Completed Grants

6/2009-6/2010 (PI, 50%)
HHMI Medical Research Training Fellowship
Annual Direct Costs: \$35,000
Total Direct Costs: \$35,000

Publications

Peer Reviewed Articles

1. Lobrano, M. B., **Hayman, E.**, Dekelbaum, M., & Campeau, R. (2004). Biopsy findings in PET/CT-positive lung lesions in a community hospital. *The Journal of the Louisiana State Medical Society: official organ of the Louisiana State Medical Society*, 157(6), 319-324.
2. Li, Y., **Hayman, E.**, Plesescu, M., & Prakash, S. R. (2008). Synthesis of potent BCRP inhibitor—Ko143. *Tetrahedron Letters*, 49(9), 1480-1483.
3. Lee, J. C., **Hayman, E.**, Pegram, H. J., Santos, E., Heller, G., Sadelain, M., & Brentjens, R. (2011). In vivo inhibition of human CD19-targeted effector T cells by natural T regulatory cells in a xenotransplant murine model of B cell malignancy. *Cancer research*, 71(8), 2871-2881.
4. Pegram, H. J., Lee, J. C., **Hayman, E. G.**, Imperato, G. H., Tedder, T. F., Sadelain, M., & Brentjens, R. J. (2012). Tumor-targeted T cells modified to secrete IL-12 eradicate systemic tumors without need for prior conditioning. *Blood*, 119(18), 4133-4141.
5. Iqbal, S., **Hayman, E. G.**, Hong, C., Stokum, J. A., Kurland, D. B., Gerzanich, V., & Simard, J. M. (2016). Inducible nitric oxide synthase (NOS-2) in subarachnoid hemorrhage: Regulatory mechanisms and therapeutic implications. *Brain Circulation*, 2(1), 8.
6. **Hayman, E.**, Kurland D., Grunwald, Z., Urdy, S., Sheth, K., Simard, J.M. (2016). Decompressive craniectomy in neurocritical care. *Semin Neurol*, 36(6):508-519.
7. **Hayman E**, Wessell A, Gerzanich V, Sheth KN, Simard JM. (2017). Mechanisms of Global Cerebral Edema Formation in Aneurysmal Subarachnoid Hemorrhage. *Neurocrit Care*. 26(2):301-310.
8. **Hayman E**, Patel AP, James RF, and Simard JM. (2017). Heparin and Heparin-Derivatives in Post-Subarachnoid Hemorrhage Brain Injury: A Multimodal Therapy for a Multimodal Disease. *Molecules*. 22(5), 724
9. Stokum JA, Keledjian K, **Hayman E**, Karimy JK, Pampori A, Imran Z, Woo SK, Gerzanich V, Simard JM. (2017). Glibenclamide pretreatment protects against chronic memory dysfunction and glial activation in rat cranial blast traumatic brain injury. *Behav Brain Res*. 333:43-53.
10. **Hayman E**, Patel AP, Kimberly WT, Sheth KN, Simard JM. (2017). Cerebral Edema After Cardiopulmonary Resuscitation: A Therapeutic Target Following Cardiac Arrest? *Neurocrit Care*. 28(3):276-287.
11. **Hayman E**, Keledjian K, Stokum JA, Pampori A, Gerzanich V, Simard JM. Selective Vulnerability of the Foramen Magnum in a Rat Blast Traumatic Brain Injury Model. *J Neurotrauma*. 35(17):2136-2142
12. Eisenberg HM, Shenton ME, Pasternak O, Simard JM, Okonkwo DO, Aldrich C, He F, Jain S, **Hayman E**. Magnetic Resonance Imaging Pilot Study of Intravenous Glyburide in Traumatic Brain Injury. *J Neurotrauma*. 37(1):185-193.
13. von Glinski A, Yilmaz E, Ishak B, **Hayman E**, Ramey W, Jack A, Iwanaga J, Oskouian RJ, Tubbs RS, Chapman JR. The Modified Iliac Screw: An Anatomic Comparison and Technical Guide. *World Neurosurg*. 2020 Apr;136:e608-e613.
14. von Glinski A, Elia CJ, Takayanagi A, Yilmaz E, Ishak B, Dettori J, Schell BA, **Hayman E**, Pierre C, Chapman JR, J Oskouian R. Extreme Lateral Interbody Fusion for Thoracic and Thoracolumbar Disease: The Diaphragm Dilemma. *Global Spine J*. 2020 Mar 27;:2192568220914883
15. von Glinski A, Takayanagi A, Elia C, Ishak B, Listmann M, Pierre CA, Blecher R, **Hayman E**, Chapman JR, Oskouian RJ. Surgical Treatment of Ossifications of the Cervical Anterior Longitudinal Ligament: A Retrospective Cohort Study. *Global Spine J*. 2020 May 19:2192568220922195

Abstracts

1. **Hayman, E.**, Lee, J., Pegram, H. J., & Brentjens, R. (2010). Adoptive Therapy with Human CD19 (hCD19)-Targeted T Cells Further Modified to Express IL-12 Overcome the Need for Prior Lymphodepletion to

Eradicate Established hCD19+ Tumors and Induce B Cell Aplasia in Immune Competent hCD19+ Transgenic Mice. *Blood*, 116(21), 2097-2097.

2. Pegram, H. J., Lee, J., **Hayman, E.**, Imperato, G. H., Tedder, T. J., & Brentjens, R. J. (2011). Tumor Specific T Cells Modified to Secrete IL-12 Eradicate Systemic Tumors in the Absence of Prior Toxic Chemotherapy Conditioning Regimens. *Blood*, 118(21), 3120-3120.
3. Hersh DS, **Hayman E**, Aarabi B, Stein D, Diaz C, Massetti J, Schwartzbauer GT. (2016). Safety of Anticoagulation for the Treatment of Cerebral Venous Sinus Thrombosis in Adult Trauma Patients. *Neurosurgery*, Suppl 1:169-70.

Book Chapters

1. **Hayman E**, Kole MJ, Simard JM. "Preclinical Models of Decompressive Craniectomy: Lessons from Experimental Traumatic Brain Injury and Other Disease Models." Chapter 1 in *Decompressive Craniectomy*, Aarabi B, Simard JM (eds). 1-19. Hauppauge, NY: Nova Science Publishers, 2017.
2. **Hayman E**, Kaledjian K, Gerzanich V, Simard JM. "Development of a Rodent Model of Closed Head Injury: The Maryland Model." Chapter 7 in *Pre-Clinical and Clinical Methods in Brain Trauma Research*, Srivastava AK, Cox CS (eds). 111-121. New York, NY: Humana Press, 2018.