

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Jason T. Huse	POSITION TITLE Assistant Attending, Department of Pathology Memorial Sloan-Kettering Cancer Center		
eRA COMMONS USER NAME husej			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Princeton University	B.A.	1996	Chemistry
University of Pennsylvania School of Medicine	Ph.D.	2002	Neuroscience
University of Pennsylvania School of Medicine	M.D.	2003	

A. Positions and HonorsPositions and Employment

1996-2003	Combined Degree Student (MD/PhD), University of Pennsylvania School of Medicine, Philadelphia, PA
2003-2005	Resident in Pathology and Laboratory Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA
2005-2007	Fellow in Neuropathology, Hospital of the University of Pennsylvania, Philadelphia, PA
2006-2008	Research Fellow, Memorial Sloan-Kettering Cancer Center, New York, NY
2008-2009	Instructor, Department of Pathology, Memorial Sloan-Kettering Cancer Center
2009-pres	Assistant Attending, Department of Pathology, Memorial Sloan-Kettering Cancer Center

Honors and Awards

1999-2001	Howard Hughes Medical Institute Predoctoral Fellow
2001	Robert M. Toll Medical Student Research Prize
2002	Louis B. Flexner Student Prize for Outstanding Dissertation
2002	Saul Wingrad Award for Outstanding Dissertation
2003	Jesse H. Frank Prize in Pathology
2006-2008	American Brain Tumor Association Fellow
2009	Revson/Winston Biomedical Research Fellowship
2009	Weil Award for the Best Paper in Experimental Neuropathology Presented at the AANP Annual Meeting
2009-pres.	Leon Levy Foundation Young Investigator, Memorial Sloan-Kettering Cancer Center

B. PublicationsPeer- Reviewed Articles

- Huse, J.T.**, Pijak, D.S., Leslie, G.J., Lee, V.M.-Y., Doms, R.W. "Maturation and Endosomal Targeting of β -Site Amyloid Precursor Protein-cleaving Enzyme: The Alzheimer's Disease β -Secretase". (2000) *J Biol Chem* 2000;275:33729-33737.
- Huse, J.T.**, Liu, K., Pijak, D.S., Carlin, D., Lee, V.M.-Y., Doms, R.W. " β -Secretase Processing in the Trans-Golgi Network Preferentially Generates Truncated Amyloid Species That Accumulate in Alzheimer's Disease Brain". *J Biol Chem* 2002;277:16278-16284.
- Huse, J.T.**, Byant, D., Yang, Y., Pijak, D.S., D'Souza, I., Lah, J.J., Lee, V.M.-Y., Doms, R.W., Cook, D.G. "Endoproteolysis of β -Secretase (BACE) Within its Catalytic Domain: A Potential Mechanism for Regulation". *J Biol Chem* 2003;278:17141-17149.

4. Schessl, J., Medne, L., Hu, Y., Brown, M.J., **Huse, J.T.**, Torigian, D.A., Jungbluth, H., Goebel, H.H., Bonnemann, C.G. "MRI in DNMT2-related centronuclear myopathy: Evidence for highly selective muscle involvement". *Neuromuscul Disord* 2006;12:28-32.
5. Chen, H.I., Burnett, M.G., **Huse, J.T.**, Lusting, R.A., Bagley, L.J., Zager, E.L. "Recurrent delayed cerebral necrosis with aggressive characteristics after radiosurgical treatment of an arteriovenous malformation". *J Neurosurg* 2006;105:455-460
6. Cardillo, S., **Huse, J.T.**, Iqbal, N. "Diabetic muscle infarction of the forearm in a patient with longstanding type I diabetes". *Endocr Pract* 2006;12:188-192.
7. Elmariah, S.B., **Huse, J.**, LeRoux, P., Lustig, R.A. "Multicentric glioblastoma multiforme in a patient with BRCA1 invasive breast cancer". *Breast J* 2006;12:470-474.
8. **Huse, J.T.**, Pasha, T.L., Zhang, P.J. "D2-40 Functions as an effective chondroid marker distinguishing true chondroid tumors from chordoma". *Acta Neuropathol* 2006;113:87-94.
9. Whitmore, R.G., Krejza, J., Kapoor, G.S., **Huse, J.T.**, Woo, J., Bloom, S., Wolf, R.L., Judy, K., Rosenfeld, M., Biegel, J.A., Melhem, E.R., O'Rourke, D.M. "Prediction of oligodendroglial tumor subtype and grade using magnetic resonance perfusion-weighted imaging." *J Neurosurg* 2007;107:600-609.
10. Gasparetto, E.L., Pawlak, M.A., Patel, S.H., **Huse, J.T.**, Woo, J.H., Krejza, J., Rosenfeld, M.R., O'Rourke, D.M., Lustig, R., Melhem, E.R., Wolf, R.L. "Posttreatment recurrence of malignant brain neoplasm: accuracy of relative cerebral blood volume fraction in discriminating low from high malignant histologic volume fraction". *Radiology* 2009; 250, 887-896.
11. Perry, A., Miller, C. R., Gujrati, M., Scheithauer, B.W., Jost, S.C., Raghavan, R., Qian, J., Cochran, E.J., **Huse, J.T.**, Holland, E.C., Burger, P.C., Rosenblum, M.K. "Malignant Gliomas with Neuroblastic (PNET-like) Components (GBM-PNET): A Clinicopathologic and Genetic Study of 52 Cases". *Brain Pathol* 2009; 19: 81-90.
12. Bleau, A.-M., Hambarzumyan, D., Ozawa, T., Fomchenko, E.I., **Huse, J.T.**, Brennan, C.W., Holland, E.C. "PTEN/PI3K/Akt pathway regulates the side population phenotype and ABCG2 activity in glioma tumor stem-like cells". *Cell Stem Cell* 2009; 4: 226-235
13. **Huse, J.T.**, Brennan, C., Hambarzumyan, D., Wee, B., Pena, J., Rouhanifard, S.H., Sohn-Lee, C., le Sage, C., Agami, R., Tuschl, T., and Holland, E.C. "The PTEN-regulating microRNA miR-26a is amplified in high-grade glioma and facilitates gliomagenesis *in vivo*". *Genes & Development* 2009; 23, 1327-1337.
14. Becher O.J., Hambarzumyan D., Walker T.R., Helmy K., Nazarian J., Albrecht S., Hiner R.L., Gall S., **Huse J.T.**, Jabado N., MacDonald T.J., Holland E.C. "Preclinical evaluation of radiation and perifosine in a genetically and histologically accurate model of brainstem glioma.". *Cancer Res* 2010; In press.
15. Ney, D.E., **Huse, J.T.**, Dunkel, I.J., Steiner, P.G., Haque, S., Khakoo, Y. "Intraventricular Meningioma After Cranial Irradiation for Childhood Leukemia". *J of Child Neurol* 2010; In press.

Reviews and Book Chapters

1. **Huse, J.T.** and Doms R.W. "Closing in on the Amyloid Cascade: Recent Insights into the Cell Biology of Alzheimer's Disease". *Mol Neurobiol* 2000;22:81-98.
2. **Huse, J.T.** and Doms R.W. "Neurotoxic Traffic: Uncovering the Mechanics of Amyloid Production in Alzheimer's Disease". *Traffic* 2001;2:75-81.
3. **Huse, J.T.** "Book Review: Neuropathology (Series title: Foundations in Diagnostic Pathology), Editor: Richard Prayson". *Human Pathol* 2006;37:244-245.
4. **Huse, J.T.** and Holland, E.C. "Genetically Engineered Mouse Models of Brain Cancer and the Promise of Preclinical Testing". *Brain Pathology* 2009; 19, 132-143.
5. Bleau, A.-M., **Huse, J.T.**, Holland, E.C. "The Glioblastoma Resistance Network". *Cell Cycle* 2009; 8, 2936-2944.
6. **Huse, J.T.** and Holland, E.C. "Yin and yang: cancer-implicated miRNAs that have it both ways". *Cell Cycle* 2009; 8, 3611-3612.

7. **Huse, J.T.** and Holland, E.C. "Unraveling the Complexities of Brain Cancer: Recent Advances in the Molecular Pathology of Malignant Glioma and Medulloblastoma". *Nature Rev Cancer* 2010; In press.

Abstracts

1. **Huse, J.T.**, Pijak, D.S., Leslie, G.J., Lee, V.M.-Y, Doms, R.W. "Biochemical and Morphological Characterization of BACE: The Alzheimer's Disease β -Secretase." Abstract to the Society for Neuroscience 2000 Conference.
2. **Huse, J.T.**, Pijak, D.S., Lee, V.M.-Y, Doms, R.W. "Cell Biological Analysis of BACE Activity and Mechanisms for its Regulation". Abstract to the Keystone Conference: The Molecular Basis of Neurodegenerative Disease (2001).
3. **Huse, J.T.**, Pijak, Lee, V.M.-Y, Doms, R.W. "Intracellular localization of β -secretase (BACE) affects cleavage site specificity on the amyloid precursor protein". Abstract to the Society for Neuroscience 2001 Conference
4. **Huse, J.T.**, Bleau, A.-M., Helmy, K., Holland, E.C. "Investigating the Role of miRNA's in Human and Murine Gliomas". Abstract to the AACR Conference: The Role of Non-Coding RNAs in Cancer (2007).
5. **Huse, J.T.**, Brennan, C., Hambardzumyan, D., Pena, J., Rouhanifard, S.H., Sohn-Lee, C., le Sage, C., Agami, R., Tuschl, T., and Holland, E.C. "The PTEN-regulating microRNA miR-26a is amplified in high-grade glioma and facilitates gliomagenesis *in vivo*". Abstract to the Society for Neuro-oncology meeting (2008).
6. **Huse, J.T.**, Brennan, C., Hambardzumyan, D., Wee, B., Pena, J., Rouhanifard, S.H., Sohn-Lee, C., le Sage, C., Agami, R., Tuschl, T., and Holland, E.C. "The PTEN-regulating microRNA miR-26a is amplified in high-grade glioma and facilitates gliomagenesis *in vivo*". Abstract to the American Association of Neuropathologists meeting (2009).
7. **Huse, J.T.**, Brennan, C., Hambardzumyan, D., Wee, B., Pena, J., Rouhanifard, S.H., Sohn-Lee, C., le Sage, C., Agami, R., Tuschl, T., and Holland, E.C. "The PTEN-regulating microRNA miR-26a is amplified in high-grade glioma and facilitates gliomagenesis *in vivo*." Abstract to the AACR Meeting on the Genetics and Molecular Pathology of Brain Tumors (2009).

C. Research Support

Ongoing Research Support

Society for MSKCC Research Grant

7/1/2009-6/30/2011

"A Functional Analysis of microRNAs in Gliomagenesis"

The project is directed towards the functional characterization of specific miRNAs that enhanced gliomagenesis through the regulation of tumor suppressor expression.

Role: Principal Investigator (30% effort)

Brain Tumor Center Research Grant

7/1/2009-6/30/2010

"Biomarker Development for molecular subclassification of malignant glioma"

The project is directed toward the identification and clinical implementation of mRNA, miRNA and protein biomarkers to facilitate the classification of malignant gliomas into molecularly defined treatment groups for targeted therapies.

Role: Principal Investigator (25% effort)

Completed Research Support

Revson/Winston Fellowship in Biomedical Research

7/1/2009-9/1/2009

"A Functional Analysis of microRNAs in Gliomagenesis"

The project was directed towards the functional characterization of specific miRNAs that enhanced gliomagenesis through the regulation of tumor suppressor expression.

Role: Research Fellow primarily responsible for the design, execution, and interpretation of investigations.

David Tetenbaum Hope/American Brain Tumor Association Fellow

7/1/2006-6/30/2008

"A Study of the Role of microRNAs in Brain Tumor Pathogenesis"

The project was directed towards elucidating the functional relevance of brain tumor-implicated microRNAs in relevant *in vivo* model systems.

Principal Investigator/Program Director (Last, First, Middle): **Huse, Jason, Thomas**

Role: Research Fellow primarily responsible for the design, execution, and interpretation of investigations.

Howard Hughes Medical Institute Pre-doctoral Fellowship

7/1/1999-12/31/2001