**Hyung Jin Ahn, PhD**

185 South Orange Ave MSB H582

Newark, NJ, 07101 [hyungjin.ahn@rutgers.edu](mailto:hyungjin.ahn@rutgers.edu)

**EDUCATION**

Ph.D. in Molecular Physiology & Biophysics 2007

Baylor College of Medicine, Houston, TX

M.S. in Biochemistry 2001

Korea University, Seoul, Korea

Bachelor of Science1995

College of Natural Resources, Korea University, Seoul, Korea

**POSTGRADUATE TRAINING**

Clinical and Translational Science Certificate 2012 - 2013

The Rockefeller University, New York, NY

Postdoctoral Associate, Laboratory of Neurobiology & Genetics 2008 - 2012

The Rockefeller University, New York, NY

**ACADEMIC APPOINTMENTS**

Assistant Professor 2019 - Present

Department of Pharmacology, Physiology & Neuroscience

New Jersey Medical School, Rutgers University, Newark, NJ

Core Investigator, Brain Health Institute 2019 - Present

Rutgers University, Piscataway, NJ

Visiting Assistant Professor 2019 - Present

The Rockefeller University, New York, NY

Visiting Assistant Professor, Biology Program 2017

Bard College, Annandale on Hudson, NY

Senior Research Associate, Laboratory of Neurobiology & Genetics 2017 - 2018

The Rockefeller University, New York, NY

Research Associate, Laboratory of Neurobiology & Genetics 2012- 2017

The Rockefeller University, New York, NY

**AWARDS & DISTINCTIONS**

NIH Neuroscience Special Emphasis Panel (SEP) 2019 - Present

Study sections of The Blood-Brain Barrier, Neurovascular System and CNS Therapeutics

Scientific Review Board, Alzheimer’s Drug Discovery Foundation 2016 - Present

KASBP-Hanmi Fellowship Award 2011

The Korean American Society in Biotech and Pharmaceuticals

Excellent Poster Awards, New York Korean Biologists Conference 2011

Young Investigator Scholarships, Alzheimer’s Drug Discovery Foundation 2009

Naval Officer, South Korean Navy 1995 - 1998

**RECENT RESEARCH FUNDING**

NIH/NINDS (5 R01 NS104386) 04/01/18 - 12/31/22

Role: PI

Studying Pathogenic Mechanism of Hereditary Cerebral Amyloid Angiopathy

The Tri-Institutional Therapeutics Discovery Institute 08/01/16 - 07/31/18

Role: Co-PI

Development of Novel Aβ-Fibrinogen Interaction-Inhibiting Therapeutic Antibodies to Treat Vascular and Neurological Deficits in Alzheimer’s Disease

Robertson Therapeutic Development Fund 04/01/16 - 03/31/17

Role: PI

CSF levels of plasmin-resistant fibrin fragment as diagnostic tools for Alzheimer’s disease

Alzheimer’s Drug Discovery Foundation 07/15/15 - 11/15/16

Role: PI

Improvement of a novel Aβ-fibrinogen interaction inhibitor to treat vascular and cognitive deficits in Alzheimer’s disease

NIH/NCATS (5 UL1 TR000043-09) 10/02/14 - 06/30/16

Role: PI

Investigation of neurovascular coupling deficits in freely moving Alzheimer’s disease mice by developing a new fiber optic method.

Robertson Therapeutic Development Fund 04/01/14 - 03/31/16

Role: PI

Treating vascular impairment through the inhibition of Aβ-fibrinogen interactions

**PUBLICATIONS**

**Hyung Jin Ahn**, Sarah K. Baker, Erin H. Norris, Sidney Strickland (2019) "Inflaming the Brain."

Neuron, 101:991-993

Pradeep K. Singh, Hanna E. Berk-Rauch, Nadine Soplop, Kunihiro Uryu, Sidney Strickland, **Hyung Jin Ahn** (2018)“Analysis of β-Amyloid-induced Abnormalities on Fibrin Clot Structure by Spectroscopy and Scanning Electron Microscopy” ***J Vis Exp***, 141: e58475

Pradeep K. Singh, Masanori Kawasaki, Hanna E. Berk-Rauch, Michael A. Foley, Erin H. Norris, Sidney Strickland, Kazuyoshi Aso, **Hyung Jin Ahn** (2018) “Aminopyrimidine Class Aggregation Inhibitor Effectively Blocks Aβ–Fibrinogen Interaction and Aβ-Induced Contact System Activation.” ***Biochemistry***, 57: 1399-1409

**Hyung Jin Ahn**, Zu-Lin Chen, Daria Zamolodchikov, Erin H. Norris, Sidney Strickland (2017) "Interactions of Beta-Amyloid Peptide with Fibrinogen and Coagulation Factor XII may contribute to Alzheimer's Disease." ***Curr Opin Hematol***, 24: 427-431

Daria Zamolodchikov, Hanna E. Berk-Rauch, Deena A. Oren, Daniel S. Stor, Pradeep K. Singh, Kazuyoshi Aso, Sidney Strickland, **Hyung Jin Ahn** (2016)“Biochemical and Structural Analysis of the Interaction between β-Amyloid and Fibrinogen.” ***Blood***, 128:1144-1151, Featured on the Cover

**Hyung Jin Ahn**, Fraser Glickman, Kai Lai Poon, Daria Zamolodchikov, Odella C. Jno-Charles, Erin H. Norris, Sidney Strickland (2014) “A novel Aβ-fibrinogen interaction inhibitor rescues altered thrombosis and cognitive decline in Alzheimer’s disease mice.” ***J Exp Med***, 211: 1049-1062, Highlighted in *Nature Reviews Drug Discovery* and featured on faculty of 1000

**Hyung Jin Ahn**, Sidney Strickland, James Krueger, Daniel Gareau (2014) “Optical Fiber Spectroscopy Measures Perfusion of the Brain in a Murine Alzheimer's Disease Model” ***Proc. SPIE***, 89380Q

Marta Cortes-Canteli, Daria Zamolodchikov, **Hyung Jin Ahn**, Sidney Strickland, Erin H. Norris (2012) "Fibrinogen and altered hemostasis in Alzheimer's disease." ***J Alz Dis***, 32: 599-608

**Hyung Jin Ahn**, Daria Zamolodchikov, Marta Cortes-Canteli, Erin H. Norris, **J. Fraser Glickman,** Sidney Strickland (2010) “The Alzheimer’s Disease peptide Beta-Amyloid Interacts with Fibrinogen and Induces its Oligomerization” **Proc. Natl. Acad. Sci. USA**, 107: 21812-21817

Marta Cortes-Canteli, Justin Paul, Erin H. Norris, Robert Bronstein, **Hyung Jin Ahn**, Daria Zamolodchikov, Shivaprasad Bhuvanendran, Katherine M. Fenz, Sidney Strickland (2010) “Fibrinogen and beta-amyloid association alters thrombosis and fibrinolysis: a possible contributing factor to Alzheimer's disease.” ***Neuron****,* 66**:** 695-709; Featured on the Cover

**Hyung Jin Ahn**, Cateria Hernandez, Jonathan M. Levenson, Farah Lubin, Hsiou-Chi Liou, J. David Sweatt. (2008) “c-Rel, an NF-κB family transcription factor, is required for hippocampal long-term synaptic plasticity and memory formation.” ***Learn Mem***, 15: 539-549; Featured on the Cover

Kenneth J. O’Riordan, I-Chia Huang, Marina Pizzi, Pierfranco Spano, Flora Boroni, Regula Egli, Priyanka Desai, Olivia Fitch, Lauren Malone, **Hyung Jin Ahn**, Hsiou-Chi Liou, J. David Sweatt, Jonathan M. Levenson. (2006). **“Regulation of Nuclear Factor** κ**B in the Hippocampus by Group I Metabotropic Glutamate Receptors.” *J Neuroscience****,* 26: 4870 – 4879

Jonathan M. Levenson, Sangdun Choi, Sun-Young Lee, Yun Anna Cao, **Hyung Jin Ahn**, Kim C. Worley, Marina Pizzi, Hsiou-Chi Liou, Melvin I. Simon, J. David Sweatt. (2004). “Bioinformatics Analysis of Memory Consolidation Reveals Involvement of the Transcription Factor c‑Rel.” ***J Neuroscience****,* 24: 3933-3943

Uhn S. Cho, **Hyung Jin Ahn**, Eun Y. Park, Kyung H. Kim. (2001). “Influence of ligand binding to human cytochrome P-450 1A2: conformational activation and stabilization by α-naphthoflavone.” ***Biochim Biophys Acta****,* 1546: 412-421