Y. HWAN KIM

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SUMMARY

- **Ph.D., Neuroscience from University of California, Los Angeles (UCLA)**
- **Published 17 peer-reviewed research articles**
- **Reviewed several Neuroscience research manuscripts (PLoS ONE, IntJNP, and Dev Neurobiol)**
- **Trained numerous research associates and (under)graduate students over the past 14 years**
- **18 years of research experience in laboratories including Neuroscience, Molecular Cell biology and Immunology**
- **Taught grad courses (Neurochemistry and disorders of Nervous system) and undergrad (Human heredity and Sophomore seminar)**

PROFESSIONAL EXPERIENCE

DELAWARE STATE UNIVERSITY, DOVER, DE
Assistant Professor Aug 2012 - present
- Developing potential therapeutic combinations for halting or slowing the neuropathology in Parkinson's disease models

BUCK INSTITUTE FOR RESEARCH ON AGING, NOVATO, CA
Sr. Post-Doctoral Fellow Oct 2007 - Aug 2012
- Published articles showing lithium effect on cell protection and olfactory dysfunction as a diagnostic marker for Parkinson's disease using behavioral neuroscience, stereology and synaptosomal analysis

JOHNS HOPKINS MEDICAL INSTITUTION, BALTIMORE, MD
Post-Doctoral Fellow, Neuropathology division Sep 2006 - Oct 2007
- Established transgenic mouse and stable cell lines in Parkinson's disease

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)
Graduate Researcher/Post-Doctoral Fellow, Art Arnold Lab *Sep* 2000 - Sep 2006
- Assessed sex differences of gene expression in brains using molecular and histological assays

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)
Research Associate, Tom Ganz Lab Jan 1999 - Sep 2000
- Purified and characterized antimicrobial peptides from human secretionary samples

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)
Ph.D. Neuroscience/Physiological Science, Arthur P. Arnold's lab Feb 2006
Thesis: Steroid effect on sexual dimorphism in brain using zebra finch and mouse models
Graduate Student Dissertation Fellowship Award (2004-2005)

KOREA UNIVERSITY, SEOUL, S. KOREA
M.S. Biotechnology, Chan-Wha Kim's lab Jun 1998
Thesis: Suspension Culture of Bok-1 cell from *Bombina orientalis* for the Production of Antibacterial Peptide

KOREA UNIVERSITY, SEOUL, S. KOREA
B.A. Major: Plant Physiology; Minor: Molecular Biology Jun 1996

PATENT

Julie Andersen and **Kim YH.** Low dose Lithium in the treatment or Prophylaxis of Parkinson's disease. 2013 USPTO patent # US 20130017274 A1

PUBLICATIONS

Lazzara CL, Riley RR, Rane A, Andersen JK and **Kim YH.** The combination of lithium and L-dopa/Carbidopa reduces abnormal involuntary movements (AIMs) in MPTP-lesioned mice: relevance for Parkinson's disease therapy. Neuropharmacology (in preparation)

Kim YH, Rane A, Lussier S, and Andersen JK. Lithium protects against oxidative stress-mediated cell death in alpha-synuclein over-expressing *in vitro* and *in vivo* models of Parkinson's disease. J. Neurosci Res. 89(10):1666-75 Oct 2011

Satre D, **Kim YH**, and Corbitt C. Androgen receptor location in the Dark-eyed Junco using a probe for *in situ* hybridization histochemistry generated from zebra finch cDNA. J. Neuroscience Methods. Sep 30;201(1):180-4. Sep 2011

Naurin S, Hansson B, Hasselquist D, **Kim YH**, and Bensch S. The sex-biased brain: sexual dimorphism in gene expression in two species of songbirds. BMC Genomics. 14;12(1):37 Jan 2011

Kim YH, Lussier S, Rane A, Choi SW, and Andersen JK. Inducible dopaminergic glutathione depletion in an alpha-synuclein transgenic mouse model results in age-related olfactory dysfunction. Neuroscience. 13;172:379-86 Jan 2011

Itoh Y, Replogle K, **Kim YH**, Wade J, Clayton DF, and Arnold AP. Sex bias and dosage compensation in the zebra finch versus chicken genomes: general and specialized patterns among birds. Genome Research. 20(4):512-8 Apr 2010

Dragich JM, **Kim YH**, Arnold AP, and Schanen CN. Differential distribution of the *Mecp2* splice variants in the postnatal mouse brain. J Comp Neurol. 2;501(4):526-542 Feb 2007

Kim YH and Arnold AP. Expression of NGF and trkA mRNA in song control and other regions of the zebra finch brain. Neurosci Lett. 1;409(2):151-6 Dec 2006

Kim YH, Peregrine J, and Arnold AP. The Distribution of expression of Doublecortin (DCX) mRNA and Protein in Zebra Finch Brain. Brain Research. 23;1106(1):189-96 Aug 2006

Kim YH and Arnold AP. Distribution and Onset of Retinaldehyde Dehydrogenase (zRalDH) Expression in Zebra Finch Brain: Lack of Sex Difference in HVC and RA at Early Posthatch Ages. J. Neurobiol. 65(3):260-268 Dec 2005

Kim YH, Perlman WR, and Arnold AP. Expression of androgen receptor mRNA in zebra finch song system: developmental regulation by estrogen. J Comp Neurol. 16;469(4):535-47 Feb 2004

Arnold AP, Xu J, Grisham W, Chen X, **Kim YH**, and Itoh Y. Minireview: Sex chromosomes and brain sexual differentiation. Endocrinology. 145(3):1057-62 Mar 2004

Cole AM, Tahk S, Oren A, Yoshioka D, **Kim YH**, Park A, and Ganz T.

Determinants of Staphylococcus aureus nasal carriage. Clin Diagn Lab Immunol. 8(6):1064-9 Nov 2001

Saldanha CJ, Tuerk MJ, **Kim YH**, Fernandes AO, Arnold AP, and Schlinger BA. Distribution and regulation of telencephalic aromatase expression in the zebra finch revealed with a specific antibody. J Comp Neurol. 7;423(4):619-30 Aug 2000

Cole AM, **Kim YH**, Tahk S, Hong T, Weis P, Waring AJ, and Ganz T. Calcitermin, a novel antimicrobial peptide isolated from human airway secretions. FEBS Lett. 24;504(1-2):5-10 Aug 2001

Cole AM, Shi J, Ceccarelli A, **Kim YH**, Park A, and Ganz T. Inhibition of neutrophil elastase prevents cathelicidin activation and impairs clearance of bacteria from wounds. Blood. 1;97(1):297-304 Jan 2001

Cole AM, Wu M, **Kim YH**, and Ganz T. Microanalysis of antimicrobial properties of human fluids. J Microbiol Methods. 41(2):135-43 Jul 2000

Kim YH, Yang JW, and Kim CW. Suspension culture of an antibacterial peptide producing cell line from *Bombina orientalis.* J Microbiol and biotech. 8(5):461-465 Mar 1998