

HIROKO TAKAHASHI

PERSONAL INFORMATION

310-815-8367 Home

hiro5745@hotmail.com

EDUCATION

- University of California, Los Angeles (UCLA) 2005 – present
Major: Neuroscience (Bachelors of Science) Minor: Human Complex Systems
- Santa Monica College 2004 – 2005
- Golden West College 2002 – 2004
Associate in Arts with Business Major

RESEARCH EXPERIENCE

- Laboratory of Dr. Manabu Tanifuji 6/2007– 8/2007
Laboratory of Integrative Neural Systems, Riken Brain Science Institute
Duties include: Behaving monkey studies in high spatial and temporal resolution with densely arranged floating multiple-electrode array techniques
Summer Internship Student
- Laboratory of Dr. Jerome Engel 1/2007– present
Department of Neurology, UCLA
Volunteer
Duties include: Evaluation and optimization of computer-automated detection algorithms for electrophysiological data recorded from patients with medically refractory epilepsy
- Laboratory of Dr. Hsian-Rong Tseng 9/2006 – present
Department of Pharmacology, UCLA
Laboratory Assistant
Duties include: Human embryonic stem cell culture on a micro-fluidic device and device fabrication using Microelectromechanical system technology
- Laboratory of Dr. David L. Glanzman 7/2006 – present
Department of Neurobiology, UCLA
Volunteer
Duties include: *in vitro* preparation of *Aplysia Californica* sensory and motor neurons; de-sheathing ganglia in preparation for in situ hybridization experiments.
- UCLA Medical Center 6/2005 – present
Brain Research Laboratory, UCLA
Duties include: Manufacturing microelectrodes for implantation into human subjects; creating and maintaining a database for patient data using the software Access.
Volunteer
- Operation Crossroad Africa, Larabanga, Ghana 2005 (8 weeks)
Duties include: Building a vegetable garden, constructing Loges, painting buildings, teaching children English and Math
Volunteer

PUBLICATION

An integrated microfluidic platform for screening hESC culture conditions (In preparation)

INTERNATIONAL CONFERENCE

- Ken-ichiro KAMEI, Zeta Tak For YU, Shuling GUO, Hiroko TAKAHASHI, Carol SUH, Runsheng WANG, Jenny SHU, Caius Radu, Owen N. Witte and Hsian-Rong Tseng, An Integrated Microfluidic Platform for Multiparametric Analysis of Cells and the Application to hESC Culture, 5th ISSCR Annual Meeting (2007)
- Ken-ichiro KAMEI, Zeta Tak For YU, Shuling GUO, Carol SUH, Hiroko TAKAHASHI, Runsheng WANG, Chengyi Jenny SHU, Caius G. RADU, Owen N. WITTE and Hsian-Rong TSENG, An integrated microfluidic platform for screening hESC culture conditions, Stem Cells 2006 (2006)

SUMMARY OF VOLUNTEER ACTIVITIES

- Volunteer Center at UCLA Medical Center (90 hours) 2005
- 112 hours of Community Service 2004

LABORATORY SKILLS

- Microfluidic device fabrication
- Human Embryonic stem cell culturing
- Basic molecular bio laboratory technology (Electrophoresis, RT-PCR, etc)
- In situ hybridization
- Micro-dissection of ganglia from *Aplysia* central nervous system
- Cell culture of dissociated *Aplysia* neurons (30um in diameter) in culture

COMPUTER SKILLS AND LANGUAGE

- PC skills: Word, Powerpoint, Excel, Access
- Basic Computer Programming skills – JAVA, C++
- Japanese (Native) and English (Fluent)

RELATED COURSES AT UCLA

- All Life Science courses required for Major in Biology,
- 2 years of General and Organic Chemistry with laboratory exercise
- 1 year of Calculus based Physics
- 1 year of Linear Algebra
- Partial fulfillment of Neuroscience Major Requirements
- Electroengineering 150 (Microelectromechanical System) with laboratory exercise
- N145 (Jaw Movement and Reflex)
- 119S (Neuronal basis of learning and memory)

HONORS AND AWARDS

- Alpha Gamma Sigma Honor Society 2004 – 2005
- President hours 2005
- Deans Honors List 2002 – 2005

REFERENCES

- Brain Research Institute

Eric John Behnke
Clinical specialist
Stereotactic Surgery Program
310-206-2922
behnke@ucla.edu

- Laboratory of Neurology

David L. Glanzman, Ph.D.
Professor
Department of Neurobiology
University of California Los Angeles
310-206-9972
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Greg Villareal, Ph.D.
Post Doctoral Researcher
Department of Neurobiology
University of California Los Angeles
310-206-4852
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- Laboratory of Human Complex Systems (Anthropology)

Dario Nardi, Ph.D.
Professor
Department of Anthropology
University of California Los Angeles
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- Laboratory of Pharmacology

Hsian-Rong Tseng, Ph.D.
Assistant Professor
Department of Molecular & Medical Pharmacology
University of California Los Angeles
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Ken-ichiro Kamei, Ph.D.
Postdoctoral Researcher
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