

# **9<sup>th</sup> Annual ASU-BNI Neuroscience Research Symposium**



**February 9, 2019  
8:30am – 4:00pm**

**Goldman Auditorium  
Barrow Neurological  
Institute**

## Keynote Speaker:

**Arturo Alvarez-Buylla, Ph.D.**

University of California, San Francisco

### *Origins and Function of Postnatal Neural Stem Cell; Does Brain Size Matters?*

Dr. Alvarez-Buylla has an international reputation for his work in developmental neuroscience and stem-cell neurobiology research. His principal research interests are in neurogenesis of the adult mammalian brain, the assembly of the brain, brain tumors and repair, and the ontogeny and phylogeny of behavior.

His expertise encompasses the fields of developmental biology, developmental neuroscience, neurobiology, molecular and cellular neurobiology, and learning and plasticity. An innovator and inventor as well as a scientist, Dr. Alvarez-Buylla has designed a device for mounting tissue sections on histological slides, a digital stereotaxic apparatus for mice and song birds, a computer-based mapping system for tissue sections, and a fluorescent staining technique.



# Symposium Agenda

**8:30-9:00am**

Check-in and Refreshments

**9:00-9:10am**

Opening Remarks from  
Program Directors  
Drs. Salvatore Oddo  
and Rita Sattler

**9:10-10:10am**

**Keynote Speaker**  
**Arturo Alvarez-Buylla, PhD**  
***Origins and Function of***  
***Postnatal Neural Stem Cell;***  
***Does Brain Size Matter***

**10:10-10:30am**

Break

**10:30-12:00pm**

Student Session

**10:30-10:50am**

**Costanza Lo Cascio, Mehta Lab**  
*Radiation-induced plasticity in  
glioma stem cells*

**10:50-11:10am**

**Mike Holter, Newbern Lab**  
*Gain-of-function ERK/MAPK  
signaling in GABAergic  
interneuron development and  
disease*

**11:10-11:30am**

**Megan Fitzhugh, Rogalsky Lab**  
*Beyond age-related hearing  
loss: Contributions of Brain  
Networks to Language  
Comprehension in Older  
Adults*

**11:30-11:50am**

**Stephen Moore, Sattler Lab**  
*ADAR2 mislocalization and  
RNA editing aberrations in  
C9orf72 ALS/FTD*

# Symposium Agenda

**12:00-2:00pm**

Lunch and Poster Session

**2:00-4:00pm**

Faculty Session

**Shwetal Mehta, Ph.D., BNI**  
*Targeting Resistant Cells in  
Brain Tumors*

**Jason Newbern, Ph.D., ASU**  
*Kinase Functions in the  
Developing Nervous System*

**Nadine Bakkar, Ph.D., BNI**  
*Blood-CSF barrier disruptions  
in Amyotrophic Lateral  
Sclerosis (ALS)*

**Ayoub Daliri, Ph.D., ASU**  
*Cortical computations  
underlying speech production*

**Tomoki Hashimoto, M.D., BNI**  
*Translational research of  
intracranial aneurysm*

**Julie Liss, Ph.D., ASU**  
*One Dysarthria, Two  
Communication Disorders:  
The Language-Specific  
Effects of Dysarthria in the  
Bilingual Patient*

**Elliott Mufson, Ph.D., BNI**  
*The Human Side of  
Alzheimer's disease*

**Zaman Mirzadeh, M.D., Ph.D, BNI**  
*Developmental plasticity and  
remodeling of hypothalamic  
arcuate nucleus circuits  
controlling metabolism*