



# Stem Cells @ UCR

Stem Cell Center Newsletter – Jan 2019, No. 1

## Upcoming Events!

### Winter I.E. Stem Cell Consortium Seminar Series (CMDB 255)

Mondays @ 12-1 PM in Genomics Aud.  
Refreshments served at 11:30 AM  
Seminars will begin February 4<sup>th</sup>

### Pluripotent Stem Cell Quality and Karyotyping Seminar

Presented by Stem Cell Technologies  
January 28<sup>th</sup> → 1:00-2:00 PM  
Stem Cell Conf. Rm: Batchelor Hall 1158

### Live Cell Imaging Training Day on the Nikon BioStation CT

Attend this training session and receive **1 day free** on your first stem cell exp!  
RSVP with rbeha001@ucr.edu  
February 14<sup>th</sup> → 1:00-2:00 PM  
Stem Cell Core: Keen Hall 501A

## What's Inside

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# 2018 Inland Empire Stem Cell Consortium Annual Symposium

On October 22, 2018, the annual symposium was hosted by Western University of Health Sciences at Pomona

Researchers and students from Western University, UCR, Loma Linda University and California State University at San Bernardino came together to share a day of learning, networking, and discussing their latest stem cell research through podium and poster presentations.

Keynote speakers, Dr. Christine Brown (City of Hope) and Dr. Song Li (UCLA), set the tone for the morning and afternoon sessions as they discussed their work.



## Poster Presentation Winners!



### 1<sup>st</sup> Place: Atena Zahedi

*Epithelial-to-Mesenchymal Transition and Giant Cancer Cell Formation in Lung Cancer Cells Exposed to Electronic Cigarettes*

### 2<sup>nd</sup> Place: Rattapol Phandthong

*Bioinformatics Methods for Extracting Information from Still and Video Images of Stem Cells*

### 3<sup>rd</sup> Place: Ana Ramirez

*Comprehensive Biomarkers' Profiles in Dogs with Atopic Dermatitis*



## **Recent Publications!**

### **Learn about Stem Cell Research @ UCR**

**Developmental Xist induction is mediated by enhanced splicing.**

Stork, C., Li, Z., Lin, L., Zheng, S. Nucleic Acids Res. 2018 Nov 29.  
doi: 10.1093/nar/gky1198.

**Early specification and development of rabbit neural crest cells.**

Bettors, E., Charney, R.M., Garcia-Castro, M.I., Developmental Biology, 2018 <https://doi.org/10.1016/j.ydbio.2018.06.012>

**Dynamic blebbing: A bottleneck to human embryonic stem cell culture that can be overcome by laminin-Integrin signaling.**

Weng, N.J.H., Cheung, C., Talbot, P. (2018) Stem Cell Research, Volume 33, Pages 233-246,

**Fabrication of centimeter-scale and geometrically arbitrary vascular networks using in vitro self-assembly.**

Morgan, J.T., Shirazi, J., Comber, E.M., Eschenburg, C., Gleghorn, J.P. (2019) Biomaterials, Volume 189, 2019, Pages 37-47.

**The Mechanosensitive Ion Channel TRPV4 is a Regulator of Lung Development and Pulmonary Vasculature Stabilization.**

Morgan, J.T., Stewart, W.G., McKee, R.A., Gleghorn, J.P., (2018) Cel. Mol. Bioeng.11: 309.

**Epithelial-to-Mesenchymal Transition of A549 Lung Cancer Cells Exposed to Electronic Cigarettes.**

Zahedi, A., Phandthong, R., Chaili, A., Lemark, G. & Talbot, P. Lung Cancer 122, 224–233 (2018).

**Deep Analysis of Mitochondria and Cell Health Using Machine Learning.**

Zahedi, A., On. V., Phandthong, R., Chaili, A., Remark, G., Bhanu, B., Talbot, P. Scientific Reports. 2018 Nov 5; 8(1):16354.

# Stem Cell Lab Fellowships & Awards

**Dr. Rebekah Charney** (Garcia-Castro Lab) – Awarded NIH F32: Ruth L. Kirschstein National Research Service Award Individual Postdoctoral Fellowship for her project titled: Identification of a novel regulatory program underlying the early specification of Neural Crest cells

**Dr. Nicole Sparks** (PI: zur Nieden, Co-PI: Riccomagno) – Awarded the University of California Chancellor's Postdoctoral Fellowship for her project titled: MicroRNAs as biomarkers of developmental bone toxicity

**Rattapol Phandthong** (Talbot Lab) – Awarded 2<sup>nd</sup> place poster presentation from the Southern California Society of Toxicology Annual Meeting for his work on: Bioinformatics Methods for Extracting Information from Still and Video Images of Stem Cells

**Atena Zahedi** (Talbot Lab) – Awarded American Society for Cell Biology Travel Grant, to present at the ASCB meeting in San Diego in December, 2018

**Carys Layton** (Tsutsui Lab) – Awarded Honorable Mention for the NSF Graduate Research Fellowship Program

## Congratulations to these recent graduates!



**Dr. Daniel Nampe (Tsutsui Lab)**  
**Dr. Karen Low (Nam Lab)**  
**Dr. Rachel Behar (Talbot Lab)**  
**Dr. Barbara Davis (Talbot Lab)**  
**Dr. Atena Zahedi (Talbot Lab)**  
**Dr. Andrea Cabrera (Ghosh Lab)**  
**Dr. Nicole Sparks (zur Nieden Lab)**

Have an announcement for the next newsletter? Email Rachel Behar (rbeha001@ucr.edu), the new Academic Coordinator of the Stem Cell Core.