

## The Official PART Newsletter

### January – June 2016

The Pediatric Anesthesia Research Team has been busy so far this year, with lots of events and successes to report!

#### CFRI Graduate Studentship

Mahdi Yousefi, was awarded the Healthy Starts Graduate Studentship for his thesis project “Safe automated anesthesia drug delivery”. These training awards recognize individuals who wish to pursue a research career in any research area that is directly relevant to improving the health of children and families. Congratulations Mahdi!



Mahdi accepting his studentship. Photo credit: CFRI.

#### CAS Resident Grant

Congratulations to Terri Sun for securing the 2016 CAS Resident grant (\$10,000). The funding is being used to support “A usability and feasibility evaluation of Panda, a smartphone application designed to support post-operative pain management at home”, currently underway.



Terri accepting her award. Photo credit: CAS.

#### Mitacs Accelerate Graduate Fellowship

Congratulations to Nazanin Hamzei for securing a Mitacs Accelerate Graduate Fellowship. She will be interning with Motion Metrics International Corp for her project on “Deep Learning Analysis for Missing Tooth Detection in Mining Monitoring Systems”.

#### PART Strawberry Social

To help celebrate the start of summer the team hosted its first strawberry social in late May. We enjoyed lots of wonderful food and drinks featuring strawberries.



Photo credit: Parastoo Dehkordi

#### Conference Participation

##### APT Research Day

Congratulations to Liz Allison for receiving 2<sup>nd</sup> prize for her presentation “Overnight oximetry at home before and after adenotonsillectomy” at the annual Department of Anesthesiology, Pharmacology and Therapeutics Research Day held May 12, 2016.



APT Research Day, Liz Allison (middle) . Photo credit: Roanne Preston.

## STA

Mark Ansermino, Matthias Görge, Guy Dumont, Sonia Brodie, and Chris Petersen travelled to Palm Beach in January for the annual Society for Technology in Anesthesia conference. The team presented 6 posters, on projects including closed-loop control of anesthesia, depth of hypnosis, EEG monitoring and time stamping research data.

## IARS

Mark Ansermino, Matthias Görge and Sonia Brodie travelled to San Francisco in May for the International Anesthesia Research Society's annual meeting. The team presented 3 posters on closed-loop control of anesthesia relating to burst suppression, intraoperative blood loss and hemodynamic changes.



Mark, Matthias and Sonia at IARS. Photo credit IARS.

## CAS

Several members of the department attended the annual Canadian Anesthesiologists' Society meeting in Vancouver. Posters featured work on the effects of child life with preoperative anxiety, dexmedetomidine with cardiac catheter patients, and at-home pulse oximetry before and after adenotonsillectomy.

## PART Around Town Mini Retreat

The team spent the day at UBC strategizing and reflecting on our research past and future.



Photo credit: Matthias Görge

## UBC Sports Day

The *PARTy Animals* made a return appearance at the annual UBC Faculty & Staff Sports Day, ranking 27<sup>th</sup> out of 44 competitive teams; with a time of 0:40:49. UBC reported that over 500 staff and faculty took part in the event this year. Teams were recognized for their competitive performance and spirit. Great job team!



Sandra, Sonia, Nick, Mika and Roberto

## RBC Run for the kids

Team members of all ages completed the 5 km course around the hospital neighbourhood on June 5th. The run supports oncology research at BC Children's Hospital, and the PART has been an annual participant for more than 10 years. The event raised just over \$1 Million for research.



PART-Time runners at RBC Run for the kid. Photo credit: BCCH foundation

## Farewell Ainara

Ainara Garde was appointed to the Department of Biomedical Signals and Systems at the University of Twente in the Netherlands in April. Parastoo hosted a lovely farewell dinner. We are very sad to have Ainara leave us but look forward to future ongoing collaborations.

## Farewell Fellows Dinner

As is the annual tradition the BCCH Department of Anesthesia says thanks and farewell to our two clinical research fellows, Liz Allison and James Gaynor, with a wonderful dinner at the Royal Vancouver Yacht Club. We wish them well in their careers. We look forward to working with the incoming fellows Cheryl Peters and Jonathan Stacey.



PART at Fellows Dinner

## Meet a Team Member!



Neda Eskandari Roberto Pagano



Soodeh Ahani Shaylene Beaudry

*Neda Eskandari (Post-Doctoral Fellow)*

Neda joined the team in January. She is currently working on the iControl project.

*Roberto Pagano (Post-Doctoral Fellow)*

Roberto joined the team in. His current projects include biomedical signal processing and NIRS development.

*Soodeh Ahani (Post-Doctoral Fellow)*

Soodeh joined the team in April. She is currently working on an automatic burst-suppression pattern detection algorithm from EEG signal.

*Shaylene Beaudry (Junior Software Developer)*

Shaylene joined the team in May. She is currently working on supporting our mobile app developments.

## Feature Study

*Dexmed-QT*

This study aims to investigate the effects in children of three different doses of dexmedetomidine on cardiac repolarization, blood glucose levels, and serum potassium concentrations. We are recruiting 60 children between the ages of 3-10 undergoing elective surgery. Data will be vital in establishing the safety profile of an increasingly popular and useful drug. Contact us ([part@cw.bc.ca](mailto:part@cw.bc.ca)) for more information or visit our website [www.part.cfri.ca](http://www.part.cfri.ca) for a list of our current clinical studies.

## Websites of Interest

*Electrical and Computer Engineering in Medicine*

<http://ecem.ece.ubc.ca> for information on our engineering projects.

*The Sensor Project*

<http://thesensorproject.org> for information on how you can help by donating.

## Upcoming @ PART

*What's happening July-September 2016?*

- [EMBC, August 16-20 in Orlando.](#)
- [CinC, September 11-14 in Vancouver.](#)
- [CPAS, Sept 30- Oct 2 in Banff.](#)

## Research Meetings

*First and third Tuesday of every month at 1:00pm in the Clinical Support Building: room V3-302*  
August 2 & 16, and September 6 & 20.

## 7am Research Rounds

September 7, November 9, December 21.

## Upcoming Deadlines

See the PART update meeting minutes for approaching deadlines. Contact [part@cw.bc.ca](mailto:part@cw.bc.ca) if you would like to be included on our distribution list.