Pediatric Summer Projects

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

Response was added on 04/18/2012 5:16pm.

Mentor Name: Kyu-Ho Lee
Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology)):
Assistant Professor of Pediatrics (Cardiology)
Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment.
☐ Yes
☐ No
What type of project is this?
☒ Laboratory-based project
☐ Clinical Research Project
Provide a Brief Description of Summer Project:

>>I have spoken to MS I Christoper Clark about this project<<

We have preliminary characterized a novel gene whose expression is closely linked to that of early transcriptional mediators of the unfolded protein response (UPR) or endoplasmic reticulum stress (ER Stress) during embryonic development. We have evidence for its expression in human placenta and that its expression is differentially modulated in placental tissues of patients with pre-eclampsia. The student will examine expression in a broader cohort of patient samples to better understand its linkage to pathologies of pregnancy and conduct basic cellular and molecular experiments to better understand its functional role in ER/UPR stress.

ER/UPR stress is increasingly recognized as being a central response pathway to a number of pathophysiological processes including infectious and immune disease, metabolic disease, cardiac dysfunction and Alzheimer's disease. Identification of a new regulator of this pathway represents a potentially seminal result in this important area of basic biology and clinical pathophysiology. Pre-eclampsia is a leading cause of prematurity and maternal morbidity. Understanding of the biochemical and metabolic events regulating its associated findings of hypertension, proteinuria and thrombocytopenia are a vital step to focusing appropriate treatment and developing novel agents for treatment.

The project will provide the student with basic laboratory bench experience, will introduce him to issues in translational research and research on human subjects, and potentially provide him with clinical shadowing opportunities.

Would you be able to have a student shadow you clinically for part of the project time period?

☑ No, I am not a clinician.
☒ Yes, I am not a clinician but could find someone in my division to perform this function.

☐ Yes
**Pediatric Summer Projects**

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

**Response was added on 04/18/2012 6:58pm.**

Mentor Name: Rachel E Tuuri  
Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology)): Assistant Professor of Pediatrics

Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment.

- [x] Yes  
- [ ] No

What type of project is this?

- [ ] Laboratory-based project  
- [x] Clinical Research Project

Provide a Brief Description of Summer Project:

Intranasal Fentanyl for Suspected Pediatric Forearm Fractures: Time until therapy, Mode of Intervention, and Parent Satisfaction with Pain Management.

Seeking to involve a summer student in a project to assess practice change after the implementation of intranasal fentanyl for suspected fractures. Parent satisfaction with fentanyl will be assessed with post ED-visit surveys.

Would you be able to have a student shadow you clinically for part of the project time period?

- [ ] No, I am not a clinician.  
- [ ] Yes, I am not a clinician but could find someone in my division to perform this function.  
- [x] Yes
Pediatric Summer Projects

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

Response was added on 04/18/2012 9:32pm.

Mentor Name: Carol Wagner
Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology)): Professor of Pediatrics
Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment.
☒ Yes
☐ No
What type of project is this?
☒ Laboratory-based project
☐ Clinical Research Project
Provide a Brief Description of Summer Project:

Student will learn basic laboratory techniques for measuring vitamin-D related cytokines and antimicrobial peptides--cathelicidin and beta-defensins. The research question will be defined and refined but will center around the premise that vitamin D is an immune modulator. By utilizing plasma samples from our ongoing vitamin D lactation study, the question of whether or not vitamin D status impacts on these specific immune modulators during lactation in both the mother and her breastfeeding infant will be answered.

There will be ample opportunity for the student to see other aspects of translational research--shadowing study coordinators and participants in the CTRC, learning about data entry and analyses, and writing a research proposal. The student also will be invited to accompany me into the NICU to see patients and to join me on rounds. The goal will be to help the student realize the potential reward of academic medicine and research and to produce objective, tangible products of research: an abstract for Student's Research Day and then paper from the findings gained during the summer’s foray.

Would you be able to have a student shadow you clinically for part of the project time period?
☐ No, I am not a clinician.
☒ Yes, I am not a clinician but could find someone in my division to perform this function.
☒ Yes
Pediatric Summer Projects

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

Response was added on 04/19/2012 8:07am.

Mentor Name: Sakamuri V. Reddy, Ph.D

Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology): Professor

Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment.

☒ Yes
☐ No

What type of project is this?

☒ Laboratory-based project
☐ Clinical Research Project

Provide a Brief Description of Summer Project:

osteoclast is the bone resorbing cell. Our project is to understand the regulatory mechanisms involved.

Would you be able to have a student shadow you clinically for part of the project time period?

☒ No, I am not a clinician.
☐ Yes, I am not a clinician but could find someone in my division to perform this function.
☐ Yes
Pediatric Summer Projects

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

Response was added on 04/19/2012 8:45am.

Mentor Name: Sandra Fowler

Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology)): Associate Professor

Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment. 

☐ Yes ☒ No

What type of project is this?

☐ Laboratory-based project ☒ Clinical Research Project

Provide a Brief Description of Summer Project:

Evaluate impact of rapid respiratory viral infection on clinical decision making and cost effectiveness.

Would you be able to have a student shadow you clinically for part of the project time period?

☐ No, I am not a clinician.

☒ Yes, I am not a clinician but could find someone in my division to perform this function.

☒ Yes
Pediatric Summer Projects

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

Response was added on 04/19/2012 5:52pm.

Mentor Name: Remberto Paulo

Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology): Assistant Professor

Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment.

☐ Yes  ☐ No

What type of project is this?

☐ Laboratory-based project  ☒ Clinical Research Project

Provide a Brief Description of Summer Project:

Increased blood pressure variability is a well described risk factor of cardiovascular disease and stroke in adults. No data exist on blood pressure variability in children with sickle cell disease and its relationship to other comorbidities. The study will examine the relationship between blood pressure variability and abnormal transcranial doppler (TCD)/stroke in pediatric sickle cell patients. It is a cross-sectional study design that will utilize 24-hour ambulatory blood pressure monitoring measurements from 35-40 children with sickle cell disease, and examine the relationship between daytime and nighttime blood pressure variability and abnormal TCD. Other demographic and biochemical characteristics affecting the variables of interest will also be analyzed. Ms. Jenna Jones, 1st year medical student, has signed up for the project, and will be under the supervision of Dr. Ibrahim Shatat and Dr. Remberto Paulo.

Would you be able to have a student shadow you clinically for part of the project time period?

☐ No, I am not a clinician.  ☐ Yes, I am not a clinician but could find someone in my division to perform this function.  ☒ Yes
# Pediatric Summer Projects

Please complete the survey below regarding possible research projects for 1st year Medical Students for the summer.

Thank you!

Response was added on 04/20/2012 2:20pm.

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<tr>
<th>Mentor Name:</th>
<th>John E. Baatz</th>
</tr>
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<tr>
<td>Mentor Title (e.g. Assistant Professor of Pediatrics (Hematology-Oncology)):</td>
<td>Professor of Pediatrics</td>
</tr>
<tr>
<td>Do you have an appointment in the College of Graduate Studies? If no, please email Dr. Ryan to ask her to write a letter for you to obtain an appointment.</td>
<td>Yes</td>
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<tr>
<td>What type of project is this?</td>
<td>Laboratory-based project</td>
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<tr>
<td>Provide a Brief Description of Summer Project:</td>
<td>The role of atrial natriuretic peptide (ANP) receptor on lung development.</td>
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<tr>
<td>Would you be able to have a student shadow you clinically for part of the project time period?</td>
<td>No, I am not a clinician. Yes, I am not a clinician but could find someone in my division to perform this function. Yes</td>
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