SPARK Research Mentorship Program at Mayo Clinic in Florida
Science Program for the Advancement of Research Knowledge

Scholars Application 2019

The mission of the SPARK Research Mentorship Program at Mayo Clinic in Florida is to provide junior and senior high school students in Duval and St. Johns Counties with mentored research experiences in world class laboratories at Mayo Clinic in Florida which will help them develop a basic understanding of scientific research and produce a highly-competitive science fair project.

Students must submit a Scholars Application and a Research Abstract Form (no more than 250 words) which follows the guidelines of the International Science and Engineering Fair. Meritorious projects will be chosen each spring allowing students to **work 20 hours/week over the summer and limited hours until May 31, 2020 to complete projects.** The work must be presented at the student's school science fair, with the intention of entering further science competitions if selected.

PART 1: STUDENT INFORMATION

Name: _____

Birth date: _____ Email: _____

Home Address: _____

City: _____State:_____Zipcode:_____

Cell Number: _____ Home Number: _____

Parent/Guardian Name: _____

Parent/Guardian Phone Number: _____

Parent/Guardian Email: _____

Student and Membership Information **(check all that apply)**:
☐ Joe Berg Society   ☐ Other school: _____

☐ Duval County Public Schools   ☐ St. Johns County School District

Do you have any allergies or physical conditions that would require special consideration?_____

_____

_____

PART 2: SCHOOL INFORMATION

School Name: _____

School Address: _____

City: _____State:__FL___Zip code:_____

Current Grade Level: _____

Unweighted GPA: _____ Vacations Planned Summer _____

Last Day of School:_____ Date you return to school: _____

PART 3: EXPERIENCE

List completed high school or college credit science courses.

_____   _____   _____

_____   _____   _____

_____   _____   _____

List any completed AP courses not shown above.

_____   _____   _____

_____   _____   _____

_____   _____   _____

List any paid or unpaid work experience as it relates to the internship that you are currently seeking. **Include previous science fair experience, if applicable.**

_____

_____

_____

Rank your skills and training for the items listed below using the following scale.

1= skilled   2= exposure to, but not yet mastered   3= exposure to concepts   4=no prior knowledge

___pipet (micro and mL)   ___vertical electrophoresis   ___Western blotting
___solution prep   ___DNA/protein quantitation   ___transformation
___pH measurement   ___cell culture techniques   ___transfection
___sterile technique   ___PCR   ___restriction digest
___horizontal electrophoresis   ___centrifugation   ___use of microscopes

Other pertinent information or comments you might wish to add regarding skills and training.

_____

_____

_____

PART 4: REFERENCES

Please list 3 references below. One reference should be personal and two should be academic or professional.

Name: _____

Contact Number: _____ E-mail Address: _____

Title: _____ Organization: _____

Name: _____

Contact Number: _____E-mail Address: _____

Title: _____ Organization: _____

Name: _____

Contact Number: _____ E-mail Address: _____

Title: _____ Organization: _____

PLEASE INCLUDE WITH YOUR APPLICATION:
1. A transcript from your high school (Grades 9-current only)

2. Recommendation Form from your current science teacher. (This can be one of the same people you listed as a reference and are **sent separately by the science teacher**)

3. Completed Abstract Form

4. Write a cover letter explaining
   - why you would like to be an research scholar at the Mayo Clinic
   - which lab/Faculty Mentor you are selecting,
   - what you can offer during your mentorship, and
   - what you expect to gain from this mentorship.

Signature of applicant _____ Date _____

Signature of parent/guardian _____Date _____

Up to two Lab/Faculty Mentor(s) you are selecting **(choose 1 per abstract)**:

_____ Panos Anastasiadis, PhD

_____ Aging Vascular Stroke (James Meschia, MD and Taka Kanekiyo, MD, PhD)

_____ Tom Caulfield, PhD _____ John "Al" Copland III, PhD

_____ DeLisa Fairweather, PhD _____ Baoan Ji, MD, PhD

_____ Verline Justilien, Ph.D. _____ Keith Knutson, PhD

_____ Dev Mukhopadhyay, PhD _____ Melissa Murray, Ph.D.

_____ NMT (Hugo Guerrero Cazares,MD, PhD & Rachel Sarabia Estrada, DVM, PhD)

_____ Aneel Paulus, MD, PhD _____Leonard Petrucelli, PhD

_____ Evette Radisky, PhD

_____ Mark Sherman, MD _____ Peter Storz, Ph.D.

_____ Nilufer Taner, M.D., Ph.D.

_____ Joy Wolfram, PhD _____ Abba Zubair, MD, PhD