



Application for SPARK

Student Name _____
Date of Submission _____

Directions: All application documentation must be completed, saved as a PDF, and then combined as **one single PDF file** beginning with this as the cover sheet and continuing with the required attachments in order listed below. Please use this as a checklist and cover sheet. **Do not submit prior to completion of all required items.** Once complete, please name PDF with file name **LastNameFirstName_Application2020.pdf** and send to FLASPARK@mayo.edu.

The application cycle opens on January 13, 2020 and ends on February 24, 2020.
Applications will not be accepted prior to open date or after end date.

Required Attachments

- Attachment 1: SPARK 2020 Scholars Application
- Attachment 2: Transcript from high school (grades 9-current only)
 - Must be scanned. *Cell phone pictures **will not be accepted.***
- Attachment 3: [Completed Abstract Form](#) (please “cntl + click” to open document)
 - Complete on website link and save as PDF
- Attachment 4: Cover Letter, explaining the following:
 - Why you would like to be a research scholar at the Mayo Clinic
 - Which lab/faculty mentor you are selecting
 - What you can offer during your mentorship
 - What you expect to gain from this mentorship
- Action Item: [SPARK Science Teacher Recommendation Form](#) (please “cntl + click” to open document)
 - Please have your teacher fill out the SPARK recommendation form and have them submit it to FLASPARK@mayo.edu
 - Provide name of teacher & contact information (email preferred) of whom we can expect a recommendation from: _____

Student Attestation: By signing this document, I am attesting that I have completed the entire application packet prior to submission.

Signed: _____ Date: _____

Student Expectations

In order to remain in the SPARK program and receive a letter of completion and/or recommendation the student agrees to all of the following:

1. Complete all required online lab safety training modules.
2. Maintain a lab notebook documenting progression of experiments.
3. Complete a minimum of 20 lab hours per week (weekdays and weekends) during the summer culminating in a final oral presentation and entry in a science fair. When school resumes, a flexible schedule will be set up between the faculty mentor and student to complete project and participate in the Mayo Clinic Science Fair in December.
4. Attend weekly Lunch and Learn events hosted at Mayo Clinic. Events are held during the lunch hour. If student is unable to attend it should be communicated to the SPARK coordinator and Dr. Copland.
5. Check Mayo email on a daily basis. This is the mode of communication that will be used by the SPARK team and lab mentors.
6. If unable to report to the lab on agreed upon time student will communicate with the lab mentor, SPARK coordinator, and Dr. Copland.
7. Compete in the **Northeast Florida Regional Science and Engineering Fair** or the **St. Johns County Science Fair**. Students attending a school within Duval County Public Schools (DCPS) also need to submit to the **DCPS District Secondary Science Fair** in January.
8. If project is selected, student is expected to compete in the state and international science fairs.
9. Mayo issued ID badges must be returned at the end of the program.
10. Students are responsible for their own transportation.

Student Attestation: By signing this document, I am attesting that I have read and agree to these expectations.

Signed: _____ Date: _____

Parent Attestation: By signing this document, I am attesting that I have read and agree to these expectations for my child.

Signed: _____ Date: _____



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

Scholars Application 2020

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, 2021 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: _____ Zip code: _____

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 St. Johns County School District

Duval County Public Schools Other school: _____

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: _____ Planned Summer Vacations _____

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: _____

PART 5: STUDENT / PARENT ENDORSEMENT

Signature of applicant _____ Date _____

Signature of parent/guardian _____ Date _____

PART 6: LAB REQUEST

Please select up to two Lab/Faculty Mentor(s) **(If you choose 2 labs you will need 2 abstracts)**:

- Panos Anastasiadis, PhD
- Veronique Belzil, PhD, MS
- Santanu Bhattacharya, PhD
- Tom Caulfield, PhD
- Kaisorn Chaichana, MD, PhD
- John "Al" Copland III, PhD
- Nilufer Ertekin-Taner, MD, PhD
- DeLisa Fairweather, PhD
- Hugo Guerrero Cazares, MD, PhD
- Baoan Ji, MD, PhD
- Verline Justilien, PhD
- Takahisa Kanekiyo, MD, PhD and James F. Meschia, MD (co-mentor)
- Keith Knutson, PhD
- Sunil Krishnan, MBBS, MD
- Dev Mukhopadhyay, PhD
- Tushar Patel, MB ChB
- Aneel Paulus, MD, PhD
- Leonard Petrucelli, PhD
- Alfredo Quinones-Hinojosa, MD
- Rachel Sarabia Estrada, DVM, PhD
- Peter Storz, PhD
- Marka M. Van Blitterswijk, MD, PhD