

**APPENDIX A: MINOR REGISTRATION AND APPROVAL FORM**

*Proposals are due at the Office of Environmental Health and Safety at least 2 weeks prior to beginning the work.*

Principal Investigator/Sponsor: Dr. Leela Mohana Reddy Arava & Dr. Yara Almubarak

Department: Mechanical Engineering

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Email: larava@wayne.edu &

Student/Minor Name:

Date of birth:

School:

**Is this project (check one)**

Science Fair Project

Employment

Volunteering

Part of a WSU Sponsored Program. Program Name:

Other - describe here:

Project Title: SHAPE-2022

This work will be performed in (room & building): MEB # 1044 & 1054

**Materials and Equipment to be Used - Check AND LIST all that apply:**

<input checked="" type="checkbox"/> <b>Chemicals</b>	<input type="checkbox"/> <b>Biological Material</b>	<input checked="" type="checkbox"/> <b>Equipment</b>
<input checked="" type="checkbox"/> Flammable	<input type="checkbox"/> Recombinant DNA	<input checked="" type="checkbox"/> Chemical Fume Hood
<input checked="" type="checkbox"/> Reactive	<input type="checkbox"/> Bacteria	<input type="checkbox"/> Biological Safety Cabinet
<input checked="" type="checkbox"/> Carcinogenic	<input type="checkbox"/> Viruses	<input checked="" type="checkbox"/> Centrifuge
<input checked="" type="checkbox"/> Toxic	<input type="checkbox"/> Fungi	<input checked="" type="checkbox"/> Analytical Instruments
<input checked="" type="checkbox"/> Corrosive	<input type="checkbox"/> Parasites	<input checked="" type="checkbox"/> Industrial Machinery
<input checked="" type="checkbox"/> Oxidizer	<input type="checkbox"/> Human Material (blood, tissue, etc.)	<input type="checkbox"/> Noise Producing Equipment
<input type="checkbox"/> Cryogenic	<input type="checkbox"/> Insects	<input type="checkbox"/> Laminar Clean Bench
<input type="checkbox"/> Pharmaceuticals	<input type="checkbox"/> Plants	<input type="checkbox"/> Autoclave
<input checked="" type="checkbox"/> Gases	<input type="checkbox"/> Animals	<input checked="" type="checkbox"/> Other Equipment
<input type="checkbox"/> <b>Radioactive</b>		
<input checked="" type="checkbox"/> <b>Other - List Here: Glove box, 3D printing, Chemical vapor deposition</b>		

**Project Description: (attach separate sheet if necessary):**

I agree to sponsor (minor) \_\_\_\_\_, and by my signature below, I agree that:

- I have read, understand, and will adhere to WSU "Minors in Research Laboratories or Animal Facilities" Policy. The potential hazard information signature sheet is attached.
- I have completed this Minor's Hazard Specific Safety Training. Training was conducted by doing the following:
  - Personal protective equipment appropriate for, and specific to, laboratory hazards will be provided.
  - This individual will be supervised at all times while in the laboratory and never left alone.
  - Their hours of work will comply with Federal Regulation 29 CFR 570.35.
  - My laboratory is in full compliance with all applicable Wayne State University safety programs and regulations.

Name of Principal Investigator/Sponsor: Leela Arava/Yara Almubarak

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

I have read, understand, and will adhere to the WSU "Minors in Research Laboratories or Animal Facilities" Policy

Name of Minor: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**RETURN FORM TO:**

WSU Office of Environmental Health & Safety (OEHS)  
5425 Woodward, Ste. 300  
Detroit, Michigan 48202  
fax: (313) 993-4079, phone: (313) 577-1200

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***OEHS USE ONLY***

Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

## **APPENDIX B: POTENTIAL HAZARD INFORMATION & SIGNATURE SHEET**

Scientific research involves exposure to various hazards. When deciding to allow your child to participate in research projects conducted in Wayne State University laboratories, greenhouses and animal facilities, you need to be aware of the potential hazards he or she may encounter. The following information provides the most common potential hazards, but is not intended to be an exhaustive list of all potential hazards.

### **DEFINITIONS:**

- Allergens\_– substances capable of producing an allergic reaction.
- Carcinogens\_– substances capable of producing cancer.
- Pathogens\_– bacteria, viruses, Prions, fungi, parasites capable of causing diseases.
- Recombinant materials – DNA that has been genetically engineered (altered), usually incorporating DNA from more than one species of organism.
- Transgenic\_– an organism that has had genes from another organism inserted into its genes.
- Toxins\_– poisonous substances produced by living organisms, plants and animals.
- Zoonotic diseases\_– diseases that can be passed from animals to humans.

### **POTENTIAL HAZARDS:**

Your child's research project may involve one or more of the following potential hazards.

- Chemicals\_– can be unstable, making them reactive and prone to explosion. Potential injuries include skin and eye burns, respiratory problems, allergic reactions, skin, eye, and mucous membrane irritation, and illnesses.
- Pathogens – found in human, animal and plant tissue can cause infections and acute or chronic illnesses.
- Recombinant materials/technology – can interact with the human body and its cells and produce potentially hazardous results.
- Mechanical/electrical equipment and instrumentation – can cause electrocution, burns, cuts, scrapes and injuries from pinch points. High noise levels can cause hearing loss.
- Radiation/irradiation – can cause skin and eye damage, cellular damage and long-term health problems.
- Animals – can bite, scratch, and transmit zoonotic diseases, such as rabies, toxoplasmosis, pox virus, cat bite fever, rat bite fever, and various parasitic infections or release allergens.
- Gas cylinders/compressed gasses – gas cylinders with compressed gasses can explode, causing injury from high speed projectiles. Released gasses can cause eye and skin irritations, respiratory problems, light-headedness, asphyxiation and fainting.

**AGREEMENT:**

I HAVE READ AND UNDERSTAND the Potential Hazard Information Sheet describing the potential risks and dangers associated with my child's research project.

I AGREE AND UNDERSTAND that my child's research project may be suspended at any time, at the discretion of Wayne State University and its officers, agents, and employees, if the safety of my child, the employees and other volunteers of Wayne State University become a concern. I shall indemnify Wayne State University, its officers, directors, agents and employees from all claims, demands and causes of action including expenses of defense for personal injury, disease or death and loss or damage of property arising out of, or in any manner connected with or related to the performance of my child's research, except to the extent caused by the willful misconduct of Wayne State University.

\_\_\_\_\_  
Name of Child

\_\_\_\_\_  
Signature of Parent or Legal Guardian

\_\_\_\_\_  
Date

Please return the signed sheet by mail or fax to:

WSU Office of Environmental Health & Safety  
5425 Woodward, Ste. 300  
Detroit, Michigan 48202

Fax: 313-993-4079