# Risk Assessment Form (3) Must be completed before experimentation.

Stı	udent's Name(s) Vyom Shah	Vyom Shah									
	Linking Diet and Ca	ancer: Ara	chidonic	Acid /	Augments (	Canonical	Wnt S	ignaling	to Enh	ance	
	Stemness	*			NIPHLO.						
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	be completed by the Student Resell questions must be answered; additio					nated Supe	ervisor	/Qualifi	ed Scien	itist:	
<b> </b> √-1¢	T questions must be answered, addisse	Hai page(s) i.	lidy be ac	laurun	C 7 35					2 10	
1.	List all hazardous chemicals, activities, or Potentially Hazardous Biological Agent		at will be u	used; ide	ntify microorg	ganisms exen	npt from	pre-appi	roval (see	**	
	See attached	į.							*		
		* 1	*						# .Es		
2.	Identify and assess the risks involved in See attached	this project.									
	WA IN	*	r.								
3.		ocedures that	t will be u	sed to re	duce the risks	•					
	See attached				136						
	k.	1000							v		
4.	Describe the disposal procedures that v	will be used (v	when appl	licable).							
-	See attached	a =	.,								
_	A Section to form allow	390									
5.	List the source(s) of safety information.  See attached										
	See attached	9 11 18"									
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		a l							2"		
PS	To be completed and signed by the agree with the risk assessment and safety Plan/Project Summary and will provide dire Semir Beyaz	precautions a rect supervision	and proced on.				6/26/2	eviewed t	he Resea		
	Designated Supervisor's Printed Name	e Signat	ture (						ew (mm/do	•	
1_	Principal Investigator	§ '			beyaz@cs				-412	8	
	Position & Institution	osition & Institution			Phone or email contact information						
C	Cold Spring Harbor Laboratory								A.		
F	xperience/Training as relates to the st	rudent's area	of resea	rch	·						

- 1. TRIzol(Zymo Research California R2050-1-5u),
- 2. TRIzol is toxic if touched, inhaled or swallowed. May cause organ damage or genetic defects if exposed repeatedly.
- 3. Wash skin thoroughly after handling. Do not eat, drink or smoke when using TRIzol. Wear protective clothing and face protection while using TRIzol. If swallowed, contact poison control and rinse mouth. If exposed or concerned: get medical attention. Do not breathe fumes emitted by TRIzol. Handle materials in a vacuum fume hood.
- 4. TRIzol and container will be disposed in specified hazardous material bins prior to proper biosafety pickup.

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[1] International Union of Pure and Applied Chemistry and World Health Organization. Chemical Safety Matters. Cambridge: Cambridge University Press, 1992. ISBN 0-521-41375-3 paperback.

- 1. PGE2 (Sigma Aldrich USA, P0409),
- 2. PGE2 has acute oral toxicity and reproductive toxicity. Do not ingest and avoid consumption near PGE2.
- 3. PGE2 causes severe skin burns and extreme eye damage. PGE2 yields extreme single exposure respiratory toxicity. Do not ingest and avoid consumption near PGE2. Avoid direct inhalation of PGE2.
- 4. PGE2 and container will be disposed in specified hazardous material bins prior to proper biosafety pickup.
- 5.
- [1] "Prostaglandin E2P0409," Sigma. [Online]. Available:

  https://www.sigmaaldrich.com/catalog/product/sigma/p0409?lang=en®ion&gclid=CjwK

  CAiA8ejuBRAaEiwAn-iJ3qFDvXZ6kCFUD6z-OzdKjIaW07EvcqS14fJo2vwjo1s2lqcOJ

  aN0EhoCECUQAvD\_BwE. [Accessed: 26-Nov-2019].

- 1. Digitonin(Abchem Boston, ab141501)
- 2. Digitonin is toxic if swallowed, inhaled or touched.
- 3. Wash skin thoroughly after handling. Do not eat, drink or smoke when using Digitonin. Wear protective clothing and face protection while using Digitonin. If swallowed contact poison control and rinse mouth. If exposed or concerned, get medical attention. Do not breathe fumes emitted by Digitonin. Handle materials in a vacuum fume hood.
- 4. Digitonin and container will be disposed in specified hazardous material bins prior to proper biosafety pickup.

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[1] Meers M, Bryson T, Henikoff S (2019), A streamlined protocol and analysis pipeline for CUT&RUN chromatin profiling. bioRxiv 569129; 10.1101/569129

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- 1. sodium hypochlorite (Fisher Chemical, 7681-52-9,7732-18-5)
- sodium hypochlorite causes severe skin burns and extreme eye damage. Sodium
  hypochlorite yields extreme single exposure respiratory toxicity. Do not ingest and avoid
  consumption near sodium hypochlorite. Avoid direct inhalation of sodium hypochlorite.
- 3. Wash skin thoroughly after handling. Do not eat, drink or smoke when using hazardous materials. Wear protective gloves/ protective clothing/ eye protection/ face protection. If swallowed contact poison control and rinse mouth. If exposed or concerned: get medical advice/ attention. Do not breathe dust/fume/gas/mist/vapors/spray emitted by sodium hypochlorite. Handle materials in a vacuum fume hood.
- 4. sodium hypochlorite and container will be disposed in specified hazardous material bins prior to proper CSHL biosafety pickup.

[1] "sodium hypochlorite," sodium hypochlorite Solution (5.65-6%/Laboratory), Fisher

Chemical | Fisher Scientific. [Online]. Available:

https://www.fishersci.com/shop/products/sodium-hypochlorite-solution-5-65-6-laboratory -fisher-chemical-2/SS2901. [Accessed: 16-Jan-2020].