JUNE

June 1 - 5					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM				- Prep LB broth and LB agar - Autoclave in Donnelly - Pouring plates Everyone	
10:00 AM					
11:00 AM			- Pick up orders from Lash Miller - Organize and label reagents Everyone		
12:00 PM					
1:00 PM					
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					

June 8-12					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM					
10:00 AM					- BME teaching lab tour - Prepare SOB media - Take Plates out of the incubator Everyone
11:00 AM					
12:00 PM					
1:00 PM				- Pick up cells from Thomas - Liquid culture for comp cells Everyone	- Prepare Mix&Go comp cells - Make Comp BL21s Everyone
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					

June 15-19					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM		- Inoculate 50mL SOB with DH5a culture, put into shaking incubator - Redo BL21 transformations with pUC19 Suha, Sara B, Akina, Kaitlyn	- Redo DH5a transformations from distro kit - Miniprep BL21 Aayush, Akina, Sara H, Suha	- Miniprep DH5as - Make glycerol stock BL21 - Miniprep BL21 Sara H, Akina, Aayush, Bernice	- Pour 5 chlor, 15 amp plates Obsorn, Meghan, Sara H
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM	- Make 0.5mL DH5a liquid culture - Transform BL21 with pUC19 Obsorn, Cindy, Kaitlyn, Meghan	- Make 5mLliquid culture with transformed BL21 - Make DH5a competent cells - Transform DH5a with distro plasmids Amy, Aayush, Osborn, Suha, Sara B, Cindy	- 5mL liquid cultures of transformed DH5as - 5mL liquid cultures of transformed BL21 Sania, Sara B, Suha	- 5mL liquid cultures of transformed DH5as Amy, Akina	
2:00 PM					
3:00 PM					
4:00 PM					
5:00 PM					

June 22-26					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM			- Miniprep BL21 from 5mL culture - Nanodrop for conc and purity Francesca, Meghan, Bernice, Suha		- Miniprep DH5a transformations - Nanodrop miniprep products - Send for sequencing Aayush, Akina, Kaitlyn, Cindy, Meghan, Osborn
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM			- Transform the NEB DH5a Bernice, Sania, Meghan, Sara B		
2:00 PM					
3:00 PM		- Pick 4 colonies from restreak, make four 5mL BL21 liquid cultures Osborn, Meghan, Kathleen, Sara B		- Make two 5 mL cultures per DH5a transformation. Cindy, Francesca, Bernice, Kathleen	
4:00 PM	- Restreak BL21 from glycerol stock Francesca, Suha				
5:00 PM					

June 29- July 04						
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
9:00 AM						
10:00 AM						
11:00 AM						
12:00 PM						- Pour 10 Chlor, 5 Amp, and 5 Kan plates - Place colonies from Friday's transformation in fridge Angela + Lab Partner
1:00 PM					- Put DH5a comp cells into -80C - Resuspend select plasmids - Transform DH5a with the select plasmids Ipek, Meghan, Osborn, Aayush, Cindy	
2:00 PM						
3:00 PM						
4:00 PM						
5:00 PM						

JULY

July 06 - 10					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM	- Make terrific broth Kaitlyn, Meghan		- Miniprep DH5a transformations - Nanodrop miniprep products Francesca, Meghan		
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM			- Protein expression protocol to express FAST-PETase in T7 - Streak DH5a on new LB agar plate Patricia, Kathleen, Meghan		- Miniprep pDest,lsPETW, pRBS, EcCoWT, 2sPETT, pJump26, pefterm, pT1Term Sara B, Patricia, Osborn, Kaitlyn, Kathleen, Ipek I
2:00 PM					
3:00 PM		- Make liquid cultures for the transformations from Friday Osborn, Bernice, Sara B, Meghan, Patricia			
4:00 PM					
5:00 PM					
6:00 PM					

July 20 - 24					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM		- Glycerol stock - Miniprep AS plasmids - Send for sequencing - Make copper phthalate Aayush, Amy, Sara H, Bernice, Meghan, Suha	- Make agar plate without antibiotics - Restreak BL21 (find in -80) - Make copper phthalate Francesca, Meghan, Sara B, Suha	Lab Closed for BME Events	~~- Day 2 of competent cells protocol with BL21~~ - Make copper phthalate - Streak BL21 (no plasmid) from comp cells (-80) - Fabric staining (with longer durations) - Check if BME has cation-adjusted mueller hinton - Patricia show everyone how to use autoclave (11AM-12PM) Patricia, Aayush, Francesca, Meghan, Osborn, Sara H
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM		Lab Closed for BME Events		- Day 1 of competent cells protocol with BL21 - Staining fabric with copper Patricia, Kathleen, Meghan, Sara B, Suha, Sara H	Cancelled Patricia, Meghan, Kaitlyn, Ipek
2:00 PM					
3:00 PM	- Make 5mL and 20mL liquid cultures for the AS transformations from last week - Transform DH5a comp cells we made (not NEB ones) last week with pUC19 on amp plate for positive control Bernice, Meghan, Osborn, Suha				
4:00 PM		Cancelled Akina, Ipek, Francesca, Sara B	Cancelled Kaitlyn, Meghan, Sara B, Suha		
5:00 PM					Filming for Outreach Selina, Sania, Aayush, Meghan, Kaitlyn, Ipek

July 27 - 31					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM	- Ask Gary if BME has trimethoprim and sulfadiazine - Make new LB media (Donnelly 5th floor autoclave booked 11AM-12PM) - Check TB media; if suspicious, make new TB media too - Make copper phthalate (call Aayush for help) - Stain fabrics with copper with longer durations Aayush, Francesca, Meghan, Sara B, Suha, Patricia	- Put newly streaked AS plate into the 4C fridge - Glycerol stock of AS culture - Miniprep AS plasmid - Day 2 of competent cell protocol with BL21 - Make vials (serial dilution) of various ODs for HW OD testing - Make more copper phthalate if possible? Aayush, Patricia, Amy, Suha	- Make plates (10 amp, 10 kan) the Donnelly 531 autoclave is book 10AM-12PM Francesca, Meghan, Suha	- Check BL21 pUC19 plate to see if transformations worked - Thaw new antibiotics from yesterday, filter sterilize (see lab notes) Bernice, Francesca, Meghan, Suha	- Test copper toxicity Aayush, Kaitlyn, Meghan, Osborn, Bernice
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM		- Complete Day 2 of competent cell protocol with BL21 Akina, Francesca, Suha, Patricia	- Tansform BL21 w/ pUC19 to see if competent cells worked Kaitlyn, Meghan, Suha	- Check the shelf for Mueller Hinton Broth Powder (not agar powder) - Test copper toxicity - Test copper release from fabric Akina, Kathleen, Meghan, Sara H, Aayush	Cancelled Kaitlyn, ~~Bernice~~, Meghan, Osborn
2:00 PM					
3:00 PM	- Day 1 of competent cell protocol using newly streaked BL21 - Pick AS colony, do one streak on kan plate with pipette tip, then make liquid culture (using colony from same pipette tip) Osborn, Sara B, Suha				
4:00 PM					
5:00 PM					

AUGUST

August 3 - 7					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM	No lab shifts, university closed	- Check all IDT and Twist tubes in the iGEM drawer take pictures - Make two empty plates (room 531 autoclave booked 10AM-11AM) Meghan, Bernice, Suha, Aayush		- Miniprep AS plasmid, sequence - OD testing for hardware - Copper tox testing with last week's copper plates (without antibiotics) - Check if AS GGA transformations worked Aayush, Francesca, Meghan	- Glycerol stock AS plasmid GGA product - Miniprep and sequence the AS plasmid GGA product - Check results from copper tox test plates - Make 10 kan plates, use 7th floor autoclave (10am or 12pm cycles) Bernice, Francesca, Meghan, Osborn, Suha
10:00 AM			BME event, do not use lab		
11:00 AM					
12:00 PM					
1:00 PM		- Streak BL21 from comp cell tube (scrape and streak) on empty plate - Resuspend newly arrived inserts - GGA AS plasmid with inserts Akina, Meghan, Suha, Francesca, Aayush	BME event, do not use lab	- Make 2x20mL liquid cultures from transformed DH5a per AS plasmid GGA product (8 liquid cultures total) - Test copper and dye release from fabric Akina, Francesca, Ipek, Kathleen, Meghan, Sara H, Cindy, Aayush	- Perform 24 hour copper strip testing (5, 10, 30, and 40 min conditions) - Measure crystal violet absorbance at 590 nm (5, 10, 30, and 40 min conditions) - Photograph PET mesh and record observations - Stain fabrics in autoclave (531 booked 2-5pm): check SDS and safety section for which dyes you can autoclave Kaitlyn, Ipek, Meghan, Osborn, Cindy
2:00 PM					
3:00 PM			- Make 4x20mL liquid cultures from BL21 plate from yesterday (for copper tox and hardware testing) - Pick AS colony make 3x20mL cultures, one with TB, two with LB - Transform DH5a with AS GGA products (4 transformations total) Kathleen, Meghan, Patricia		
4:00 PM					
5:00 PM					
6:00 PM					

SEPTEMBER

August 31 - September 4					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM 10:00 AM 11:00 AM 12:00 PM	- PCR cleanup PD frag 1 from friday - Nanodrop PCR product - GGA frag 1 and frag 2 PD plasmid - transform GGA product into DH5a on amp plate Cindy, Kaitlyn Sara H, Suha	CANCELLED	- Continue moving 4C stuff to 403 - Move -20C stuff (get ice for this) to 403 Bernice, Suha	CANCELLED	CANCELLED
1:00 PM 2:00 PM 3:00 PM 4:00 PM	- Transform the GGA product into DH5a on amp plate Do the following if there is time, not a priority: - Follow Meghan protocol to make some more copper stained if started in the morning - Deal with any iGEM waste (check fume hood, chemicals bench, 4C fridge) Kaitlyn Suha	- Move samples from iGEM drawers to BioZone (our bench in rm 403) - Take transformation from incubator out - check 4C for any iGEM bottles that should be washed and returned to BME - deal with iGEM waste Akina, Suha	CANCELLED	CANCELLED	CANCELLED

September 7 - 11					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM	NO LAB SHIFTS: UNIVERSITY CLOSED	~~- Bring 4C plates & thermo columns from 4C BME to BZ~~ ~~- Dispose of 6 bottles of media in 4C BME~~ ~~Aayush, Cindy, Kaitlyn~~	- Really quick shift dispose of any left over media (BME), I think there's 6 bottles in the 4C fridge Bernice, Cindy, Francesca,		
10:00 AM					
11:00 AM					
12:00 PM					
1:00 PM		~~- If Susie responds, bring all -80C samples to BZ (ask Selina)~~ ~~Patricia, Francesca~~		BZ tour Sara H, Francesca, Cindy, Patricia	
2:00 PM					
3:00 PM			Cancelled unless Susie responds Cindy, Francesca		
4:00 PM					

September 14 - 18					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM		~~- Move all iGEM sampels from -80C BME to BZ~~ ~~- Resuspend PD linear from Twist~~ ~~- KLD PD linear~~ ~~- Transform KLD PD into DH5a~~ ~~- Redo GGA of PD frag 1 + frag 2 with [restriction enzyme]~~ Cindy Meghan	Cindy Francesca Bernice Sara B	Bernice Sara B Sara H	Meghan Patricia
10:00 AM					
11:00 AM			Cindy Francesca Bernice Sara B		
12:00 PM					
1:00 PM		Francesca Patricia			Meghan Patricia
2:00 PM				Cindy Meghan Sara H	
3:00 PM			Francesca Meghan	Sara H Kathleen	Meghan Cindy
4:00 PM			Francesca Meghan Cindy		Bernice Cindy Sara B Suha
Waiting for RRF Approval...					

September 21 - 25					
Shift	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
9:00 AM			**- Move samples from Lash Miller to BZ**		
10:00 AM					
11:00 AM			**Patricia, Cindy, Bernice**		
12:00 PM					
1:00 PM					
2:00 PM					
3:00 PM				***3:30 START [TBD] Cindy, Kathleen**	
4:00 PM					**[TBD] Meghan, Sara B**
5:00 PM				**[TBD] Cindy, Kathleen, Bernice, Meghan, Sara B**	
6:00 PM				**[TBD] Bernice, Meghan, Sara B, Kaitlyn, Akina**	
7:00 PM					
8:00 PM					

		September 23 - 25														
	Tasks	**AM**	**AZ**	**BW**	**CC**	**FC**	**II**	**KC**	**KNM**	**MC**	**OS**	**PR**	**SB**	**SH**	**SL**	**SA**
Wednesday																
9:00 AM	- Move samples from Lash Miller to BZ															
10:00 AM																
11:00 AM																
Thursday		**AM**	**AZ**	**BW**	**CC**	**FC**	**II**	**KC**	**KNM**	**MC**	**OS**	**PR**	**SB**	**SH**	**SL**	**SA**
3:00 PM																
4:00 PM	~~- IF Susie shows us where we have -80C space in BZ, get dry ice from Donnelly, bring all BME -80C samples to BZ (has to be done before 5PM)~~ - Inventory check (how many autoclaved tips do we have, antiobiotic stocks leftover, etc)															
5:00 PM	- Miniprep PD liquid cultures made by Patricia - Resuspend the Twist inserts: IsPETase, Fast-PETase, LCC-PETase, M4-Q PETase, Dead_IsPETase															
6:00 PM	- Drop off miniprep for sequencing if possible, otherwise store the miniprep products in -20C - IF there is a lot of inserts enough for a lot more GGAs, do 5 GGAs (PD miniprep you just made + each of these inserts), use BsmBI mastermix															
7:00 PM	~~- Transform the GGA inserts into DH5a on amp plates~~ - Make a lot of copper stain mesh															
Friday		**AM**	**AZ**	**BW**	**CC**	**FC**	**II**	**KC**	**KNM**	**MC**	**OS**	**PR**	**SB**	**SH**	**SL**	**SA**
4:00 PM	- Make LB broth and autoclave tips (benchtop autoclave room 315 booked 5-5:30PM)															
5:00 PM																

OCTOBER

	Tasks	Oct 5- 9 AM	AZ	BW	CC	FC	II	KC	KNM	MC	OS	PR	SB	SH	SL	SA
Monday																
3:00 PM	- Make 2 empty 100mm LB plates (no antibiotic, be careful with aseptic technique); might need to use microwave															
4:00 PM																
Tuesday		AM	AZ	BW	CC	FC	II	KC	KNM	MC	OS	PR	SB	SH	SL	SA
9:00 AM	- GGA PD empty with 5 control PETases - PCR on each GGA product - Run gel on PCR products - Streak AS-msGFP (BL21) and AS-sul1 (BL21) from glycerol stock on LB + kan plate - Transform AS-msGFP and AS-sul1 into BL21(DE3) (for lysate testing and serial transformation)															
10:00 AM																
11:00 AM																
12:00 PM																
Wednesday		AM	AZ	BW	CC	FC	II	KC	KNM	MC	OS	PR	SB	SH	SL	SA
4:00 PM	- KLD the PCR products from yesterday - Co-transform AS plasmid with KLD products (AS-msGFP + PD and AS-sul1 + PD) into BL21(DE3) onto LB + kan + amp plate - Day 1 of competent cell protocol from AS-msGFP and AS-sul1 which were transformed into BL21(DE3) **- Make liquid culture of the AS-msGFP and AS-sul1 plates from yesterday**															
Thursday		AM	AZ	BW	CC	FC	II	KC	KNM	MC	OS	PR	SB	SH	SL	SA
2:00 PM	- Make copper stained mesh (a bunch) - Day 2 of competent cell protocol check in on AS+PD plate (first check if there is space in -80, send pic of the box to chat) - Do inventory, check everything we have in the fridge and the shelvces send list to chat															
3:00 PM																
4:00 PM																
5:00 PM																
6:00 PM																
7:00 PM																
Friday		AM	AZ	BW	CC	FC	II	KC	KNM	MC	OS	PR	SB	SH	SL	SA
	TBD															

Two additional shifts for PD-V2 serial transformations and initial assay testing were run on October 15th and 19th.