PROPOSALLASER September Thursday Friday Wednesday Monday Tuesday Saturday Sunday Week 31 Week 32 Week 33 Week 34

Align seed laser
Achieve 30 mW output
in fiber core (pre-pump
configuration) for
stable laser operation.

Week 35

PROPOSAL ADMINIMAGINGLASER August | October Q3 September Saturday Monday Tuesday Wednesday Thursday Friday Sunday 6 4 5 Define propos Align a Confirm exam date Identify committee member Restore amplified out MILESTONE: Oral schedule oral exam date. vious benchmark p exam date scheduled. Must send final proposal to committee 2 weeks prior to exam. 12 14 8 9 10 11 13 Check pulse compres File committee for **Prepare** 37 Complete and submit all required committee Verify 200 fs pulse duration **Program** specifications in equipm of Work Develop detailed Program of Work 15 16 17 18 19 20 Laser system read Design A Reserve MILESTONE: Laser out Design and exam Week imaging optics meet all mScarlet room ments for live animal in and jRGEC Book and ronal) ve confirm nalize cons exam room submit pro 22 23 24 25 26 Submit final paperwork Week 39 Submit all completed paperwork to graduate office and confirm exam scheduling. 29 30 Week 40

2025 Q4 November October | De

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 44						1	2
	3	4	5	6	7	8	9
Week 45							
	10	11	12	13	14	15	16
Week 46						Write ful document including a research s	roposal draft proposal (~13 pages) all aims and crategy for ee review.
	17	18	19	20	21	22	23
Week 47							
	24	25	26	27	28	29	30
Week 48							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1	2	3	4	5	6	7
Week 49							
	8	9	10	11	12	13	14
Week 50							
	15	16	17	18	19	20	21
Week 51		MILESTOI mittee 2	proposal to com VE: Email propos weeks before ex pre-exam requi	sal to com- am date			
	22	23	24	25	26	27	28
Week 52							
	29	30	31				
Week 1							

uary	/						February
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 1				1	2	3	4
	5	6	7	8	9	10	11
Week 2							
	12	13	14	15	16	17	18
Week 3				MILESTONE core facility	AV vectors read : AAV vectors r v. Ready for in v to begin expressi	eceived from ivo animal	
	19	20	21	22	23	24	25
Week 4	Create slid	de deck and prac	Protice oral exam p	epare presentati resentation. Ain		e runs with lab	members.
<b>X</b>							
	26	27	28	29	30	31	
Week 5							

ary							January   March
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 5							Cranial window surgery #1 Install cranial
	2	3	4	5	6	7	8
Week 6		PI Qualify sertatio with	N	Po lonitor and medi imaging during I	Incorpo into pro	s committee fer rate committee r posal and submi form for final a	evisions t signed
							timeline
Week 7	9	10	11	12	13	14	Cranial window surgery #2 Install cranial
Week 8	16	17	18	Monitor and me	st-op recovery = dicate Mouse # gesia schedule di	2 after surgery.	22 William
>	23	24	25	26	27	28	(staggered one week after #1).
Week 9		Crani Install ject A	al window surge cranial window a AV in third pilot her staggered tin	ry #3 and in- mouse	Po Monito #3 afte	st-op recovery a or and medicate or surgery. Comp period before in	Mouse lete re-

IN	AAGING					2026 Q1 March	February   Ap
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 9							Pilot imaging session #1 Acquire in vivo
Week 10	2	3	Acqu Mouse	imaging session ire in vivo image #2 under dual-l ditions for comp	s for abel vs	7	images for 8 Mouse #1 comparing AAV fluorescence vs traditional dye injection
_	9	10	11	12	13	14	15 methods.
Week 11					Acqu Mouse	imaging session ire in vivo image #3. Complete is set for Aim 1 va	s for inal pi-
	16	17	18	19	20	21	22
Week 12	Pilo MILESTON imaging o	t datasets com VE: Three pilot datasets acquire ion and proposa	plete two-photon for Aim		Proc Optin		
	02	04	05	06	07	00	00
Week 13	23	24	25   pip	Dev Begin developing eline using U-Ne	elop U-Net pipe automated ima t architecture fo	ge segmentation	res.
	30	31					
Week 14							

March | May

Ma	March   May									
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday			
Week 14			1	Draft Vrite manuscrip nethodology and	methodology p t on AAV-based pilot results fro	aper vascular imaging m Aim 1 studies	5			
>	6	7	8	9	10	11	12			
Week 15										
	13	14	15	16	17	18	19			
Week 16										
Week 17	20	21	22	23	24	25	26			
Week 18	27	28	29	30						

Ap	ril   June							
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Week 18					1	Compare labeling methods Systematically compare imaging depth; SNR; and contrast across different labeling method		
	4	5	6	7	8	9 (AAV vs o	dye) in vivo.	
Week 19								
	11	12	13	14	15	16	17	
Week 20								
	18	19	20	21	22	23	24	
Week 21								
	25	26	27	28	29	30	31	
Week 22								

Ma	May   July									
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday			
Week 23	1	C	omplete training (photothrombos				7 d			
^	8	9	10	11	12	13	14			
Week 24	Per	form stroke indu	Induce stroke ction surgeries o e Aim 3 longitud	n experimental a	ani-					
	15	16	17	18	19	20	21			
Week 25	Submit A	it methodology im 1 imaging ner to journal for publication cons	ethodol- peer re-	Condu imaging (0-1 we	ute-phase imagi ct two-photon + sessions in acut ek post-stroke) rediate vascular	- LSCI e phase to cap-	Refine ML pipeline Adapt and improve machine learning			
Week 26	22	23	24	25	26	27	28 segmen tation pipeline for stroke dataset analysis and vascu- lar feature			
Week 27	29	30					detection.			

• IMAGING \_\_\_\_\_\_ 2026 Q3 July June | August

	Monday	Tuesday	Wednesday		Thursday	Friday	Saturday	Sunday
Week 27				2 Tr	Enhanced	3	4	5
Week 28 W	6	7	8	9		10	11	12
Week 29 Wee	13	14	15	16		17	18	19
Week 30 Wee	20	21	22	23		24	25	26
Week 31 Wee	27	28	29	30	Stabil Conduct	31 lization-phase ir imaging session se (5-8 weeks po cular remodelin	ns in early ost-stroke) to	

MAGING2026 Q3 August July   Septemb									
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
Week 31						1	2		
Week 32	3	4	5	6	7	8	9		
Week 33	10	11	12	13	14	15	16		
Week 34	17	18	19	20	21	22	23		
Week 35	24	Conduct i stroke (if n	nded chronic im maging at ~12 w eeded) to captur odeling and reco	eeks post- e long-term	28	29	30		
Week 36	MILEST planned	roke data comp ONE: Complet longitudinal ima or stroke study (	ion of all aging ses-						

\_2026 Q3 Septem-August | October

ber			A	ugust	October

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1	2	3	4	5	6
Week 36			Complete y partment	Combine LSG tural/functio	Integrate CI blood flow me nal data for com	trics with two-p	hoton struc- ular analysis.
	7	8	9	10	11	12	13
Week 37							
	14	15	16	17	18	19	20
Week 38							
	21	22	23	24	25	26	27
Week 39							
	28	29	30				
Week 40							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 40				Quantify mic	rovascular netwo	ascular coupling rk changes and post-stroke imag	neurovascular
	5	6	7	8	9	10	11
vveek 41	12	13	14	15	16	17	18
VVeek 42	19	20	21	22	23	24	25
Week 43							
Week 44	26	27	28	29	30	31	

October | December

ber	·									
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday			
Week 44							1			
	2	3	4	5	6	7	8			
Week 45										
	9	10	11	12	13	14	15			
Week 46										
	16	17	18	19	20	21	22			
7				Draft second						
Week 47				Prepare						
	23	24	25	26	27	28	29			
Week 48										
Week 49	30									

2026

Q4 December

November

٠.	4 December November											
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday					
Week 49			Complete	PhD Dissertation wr	on & Defense ite-up; final defe ents by Summer	nse; and 2027.	6					
	7	8	9	10	11	12	13					
Week 50												
	14	15	16	17	18	19	20					
				Draft Int	roduction							
Week 51				Submit s								
	21	22	23	24	25	26	27					
Week 52												
	28	29	30	31								
Week 53												

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
vveek 55					Write of (AAV im	aft Aim 1 chapt chapter detailing laging) methods ad results for dis	Aim 1 ; experi-
vveek 1	4	5	6	7	8	9	10
vveek z	11	12	13	14	Write chap color in	aft Aim 2 chaptoter detailing Ainaging platform results for disse	m 2 (dual- meth-
מעשאי	18	19	20	21	22	23	24
vveek 4	25	26	27	28	29	30	31

DISSERTATION2027 Q1 February Januar										
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday				
1	2	3	4	5	6	7				
Write chapte	er detailing Aim	Dr 3 (stroke model	aft Aim 3 chapt imaging study)	er methods; data;	and findings for	dissertation.				
		10								
8	9				13	14				
15	16	17	18	19	20	21				
22	23	24	25	26	27	28				
	Monday  1    Write chapte	Monday Tuesday 1 2 Write chapter detailing Aim 8 9	Monday Tuesday Wednesday  1 2 3  Write chapter detailing Aim 3 (stroke model  8 9 10	Monday Tuesday Wednesday Thursday  1 2 3 4  Write chapter detailing Aim 3 (stroke model imaging study)  8 9 10 11  15 16 17 18	Monday Tuesday Wednesday Thursday Friday  1	Monday Tuesday Wednesday Thursday Friday Saturday  1 2 3 4 5 6  Draft Aim 3 chapter Write chapter detailing Aim 3 (stroke model imaging study) methods; data; and findings for  8 9 10 11 12 13  15 16 17 18 19 20				

\_2027 Q1 March February | A

טי	ISSERTATION											rch Februa
	Monday		Tuesday	Wednesday		Thursday		Friday		Saturday		Sunday
Week 9	1   Write fin	2 al di	issertation c	3 D D D D D D D D D D D D D D D D D D D	4 raft ing	Conclusion	5 solicat	tions; and fu	6 iture	e research di	7 recti	ons.
We	8	9		10	11		12		13		14	
Week 10		9			11	I	12		13	I	17	I
Week II	15	16		17	18		19		20		21	
Week 12	22	23		24	25		26		27		28	
Week 13	29	30		31								

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
vveek 13				1	2	3	4
- I4	5	6	7	8	9	10	11
vveek 14	12	13	14	15	16	17	18
VVeek IS							
vveek 10	19	20	21	22	23	24	25
vveek 17	26	27	28	29	30		

• D	ISSERTATION					2027 Q2	May April   Jun
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 17						draft co MILESTON PhD disser compiled for commit	rtation pmplete E: Complete tation draft and ready tee review.
Week 18	3	4	5	6	7	8	9
Week 19	10	11	12	13	14	15	16
Week 20	17	18	19	20	21	22	23
Week 21	24	25	26	27	28	29	30
Week 22	31						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 22		1	2	3	4	5	6
vveek 23	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
5 Week 24	21	22	23	24	25	26	27
VVeek 25	28	29	30				
vveek 20							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 26	Monday	Tuesuay	vveunesuay	1	2	3	4
Week 27	5	6	7	8	9	10	11
Week 28	12	13	14	with comr	PhD Defense D dissertation in hittee (must occ hal submission d	ur 2 weeks	Revise disser- tation Incorporate committee feedback
Week 29	19	20	21	22	23	24	25 revisions after defense. Obtain final approval signatures.
Week 30	26	27	28	29	30	31	

• D	ISSERTATION					2027 Q3	August July   S
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 30							1
Week 31	2	Upload a and su	ubmit dissertation pproved dissertation bmit all required uate School by o	tion PDF forms	6	7	8
	9	10	11	12	13	14	15
Week 32							
	16	17	18	19	20	21	22
Week 33							
	23	24	25	26	27	28	29
Week 34							
	30	31					
Week 35							