	2020 40 7108000								
	M	onday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Week 31						1	2	3	
	4		5	6	7	8	9	10	
Week 32									
	11		12	13	14	15	16	17	
Week 33									
	18		19	20	21	22	23	24	
Week 34									
	25		26	27	28	29	30	31	
Week 35							Achieve 30 in fiber core configura	ed laser mW output (pre-pump ation) for operation.	

	PROPOSAL © 025 Q3 Sep		ASER			Aug	ust October
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1	2	3	4	5	6	7
Week 36			Define propos mmittee member oral exam date.	Resto	Align a pre amplified out ous benchmark p	MILEST(exam date Must send posal to co	exam date DNE: Oral scheduled. final pro- mmittee 2 r to exam.
	8	9	10	11	12	13	14
Week 37		Complete ar	File nd submit all req	committee for uired committee		sal defense.	Prepare Program of Work
Wee	15	16	17	18	19	20	Develop detailed Program of Work
Week 38							Reserve exam room Book and confirm exam
	22	23	24	25	26	27	28 room
Week 39					Submit all co	mit final paperv ompleted paperv nd confirm exan	vork to grad-
	29	30					
Week 40							

2025 Q4 October September November Monday Tuesday Wednesday Thursday Friday Saturday Sunday 3 4 Calibrate microscope Check pulse compression Verify 200 fs pulse duration and record Align imaging system Week using USAF target for specifications in equipment log. optimal resolution before in vivo experiments. 6 7 8 9 10 11 12 Laser system ready Plan imaging cohort MILESTONE: Laser output and Plan ~3 pilot mice cohort with Week IACUC protocol confirmaimaging optics meet all requirements for live animal imaging. tion and surgery slot booking. 13 14 15 16 17 18 19 Design AAV vectors Design and order AAV-mS¢arlet (vascular) and jRGECO1b (neuronal) Week vectors. Finalize constructs and submit production orders to core facility. 20 21 22 23 24 25 26 Complete proposal draft Write full proposal document (~13 pages) including all aims and research strategy for committee review. Week 27 28 29 30 31 Week

PROPOSAL

2025 Q4 November

October December

20	123 Q4 1101	/CITIDCI				Octobe	i December
	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							
	17	18	19	20	21	22	23
Week 47							
	24	25	26	27	28	29	30
Week 48							

• PROPOSAL • IMAGING 2025 | Q4 | December

November

	1 1						
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 49	1	2	3	4	5	6	7
	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 propo weeks before ex s pre-exam requi	sal to com- am date		MILEST(vectors rec core facility. vivo animal	NE: AAV eived from Ready for in injections to sion studies.
Week 52	22	23	24	25	26	27	28
Week 1	29	30	31				

• PROPOSAL • IMAGING 2026 | Q1 | January

February

	Manday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
-	Monday	ruesday	vveanesaay			Saturday	
Week 1				1	2	3	4
	5	6	7	8	9	10	11
Week 2							
	12	13	14	15	16	17	18
Week 3							
	19	20	21	22	23	24	25
			Pre	epare presentati	on		
Week 4	Create slid	de deck and prac	tice oral exam p	resentation. Ain	n for two practic	e runs with lab	members.
We							
	26	27	28	29	30	31	
Week 5							

• PROPOSAL • IMAGING 2026 | Q1 | February

January | March

	20 Q1 residury									
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday			
Week 5							Cranial window surgery #1 Install cranial			
	2	3	4	5	6	7	8 window			
Week 6		PI Qualify sertatic with	/	Po lonitor and medi imaging during I	Incorpo into pro	s committee fed rate committee r posal and submi form for final a	evisions t signed			
							timeline			
	9	10	11	12	13	14	15 for			
Week 7							Cranial window surgery #2 Install cranial			
	16	17	18	19	20	21	22 Williaw			
Week 8				Monitor and me	st-op recovery = edicate Mouse # gesia schedule di	2 after surgery.	HIVES			
_							(staggered one week after #1).			
	23	24	25	26	27	28	. ,			
Week 9		Install ject A	al window surge cranial window a AV in third pilot ner staggered tin	and in- mouse	Monito #3 afte	st-op recovery and medicate resurgery. Comperiod before in	Mouse lete re-			

 IMAGING February | April 2026 Q1 March Monday Tuesday Wednesday Thursday Friday Saturday Sunday Pilot imaging Week session #1 Acquire in vivo 8 images for Mouse #1 3 4 5 7 2 6 Pilot imaging session #2 comparing Acquire in vivo images for AAV flu-Week Mouse #2 under dual-label vs orescence dye conditions for comparison. vs traditional dye injection 15 methods. 9 14 10 11 12 13 Pilot imaging session #3 Acquire in vivo images for Week Mouse #3. Complete final pilot dataset for Aim 1 validation. 16 17 19 20 21 22 18 Pilot datasets complete Process pilot data MILESTONE: Three pilot two-photon Perform image registration and SNR analysis. Cal-Week imaging datasets acquired for Aim culate contrast metrics and refine imaging protocols. 1 validation and proposal figures. 23 25 26 27 28 24 29

Week

Week

30

31

• IMAGING • PUBLICATION March | May 2026 | Q2 | April Monday Tuesday Wednesday Thursday Friday Saturday Sunday Draft... Week 14 Develop. Optimize.. Week 15 Week 16 Week 17 Week 18

• IMAGING • PUBLICATION 2026 | Q2 | May April June Friday Monday Tuesday Wednesday Thursday Saturday Sunday Compare labeling methods Week 18 Systematically compare imaging depth; SNR; and contrast across different labeling methods (AAV vs dyg) in vivo. Week 19 Week 20 Week 21 Week 22

IMAGING PUBLICATION 2026 | Q2 | June July Monday Tuesday Wednesday Thursday Friday Saturday Sunday 1 2 3 4 5 6 7 Establish stroke protocol Complete training and IACUC approval for stroke induction method Week (photothrombosis). Ensure all regulatory approvals are in place. 8 9 13 10 11 12 14 Induce stroke Perform stroke induction surgeries on experimental ani-Week mal cohort to initiate Aim 3 longitudinal imaging study. 20 15 16 17 18 19 21 Submit methodology paper Acute-phase imaging Refine ML Submit Aim 1 imaging methodol-Conduct two-photon + LSCI pipeline Week ogy paper to journal for peer reimaging sessions in acute phase Adapt and view and publication consideration. (0-1 week post-stroke) to capimprove ture immediate vascular changes. machine learning 28 segmen 22 23 24 25 26 27 tation pipeline for stroke Week dataset analysis and vascular feature detection. 29 30

Week

IMAGING 2026 Q3 June August Tuesday Wednesday Friday Saturday Sunday Monday Thursday Enhanced... Week 27 Transition-phas Week 28

Stabilization-phase imaging Conduct imaging sessions in early

chronic phase (5-8 weeks post-stroke) to observe vascular remodeling processes.

Week 29

Week 30

Week 31

IMAGING 2026 Q3 September August Tuesday Wednesday Thursday Friday Saturday Monday Sunday 2 1 Week 31 3 4 5 6 7 8 9 Week 32 10 11 12 13 14 15 16 Week 33 17 18 19 21 22 23 20 Week 34 25 28 29 24 26 27 30 Extended chronic imaging Week 35 Conduct imaging at ~12 weeks poststroke (if needed) to capture long-term vascular remodeling and recovery patterns.

Stroke data complete
MILESTONE: Completion of all
planned longitudinal imaging sessions for stroke study (Aim 3).

• ADMIN • IMAGING 2026 | Q3 | September

August October

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

IMAGING 2026 | Q4 | October September | November Tuesday Monday Wednesday Thursday Friday Saturday Sunday Analyze neurovascular coupling
Quantify microvascular network changes and neurovascular Week 40 coupling dynamics from post-stroke imaging data. Week 41 Week 42 Week 43 Week 44

• DISSERTATION • PUBLICATION 2026 | Q4 | December

2026 Q4 December November

	2020 Q4 December							
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Week 49			Complete	PhD Dissertated dissertation wrong distribution requirements	ion & Defense ite-up; final defe ents by Summer	nse; and 2027.	6	
>	7	8	9	10	11	12	13	
Week 50				10		12		
	14	15	16	17	18	19	20	
				Draft Int	roduction			
51								
Week 51				Submit				
Week 52	21	22	23	24	25	26	27	
Week 53	28	29	30	31				

• DISSERTATION Q1 January

2027 Q1

February

Wednesday Thursday Monday Tuesday Friday Saturday Sunday 1 2 3 Draft Aim 1 chapter Week 53 Write chapter detailing Aim 1 (AAV imaging) methods; experiments; and results for dissertation. 8 9 4 5 6 7 10 11 12 13 14 15 16 17 Draft Aim 2 chapter Write chapter detailing Aim 2 (dual-Week 2 color imaging platform) methods and results for dissertation. 22 19 20 21 23 24 18 Week : 25 26 27 28 29 30 31 Week 4

OISSERTATION January March

	27 QT Tebruary Warch								
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		
Week 5	Write chapte	r detailing Aim	Dr 3 (stroke model	aft Aim 3 chapt imaging study)	er methods; data;	and findings for	dissertation.		
Week 6	8	9	10	11	12	13	14		
Week 7	15	16	17	18	19	20	21		
Week 8 We	22	23	24	25	26	27	28		
>									

DISSERTATION February | April 2027 | Q1 | March Wednesday Saturday Monday Tuesday Thursday Friday Sunday **Draft Conclusions** Write final dissertation chapter summarizing findings; implications; and future research directions. Week 9 Week 10 Week 11 Week 12 Week 13

DISSERTATION ______

2027 Q2 April March May

20)27 Q2 Apr	11					March May
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 13				1	2	3	4
	5	6	7	8	9	10	11
Week 14							
	12	13	14	15	16	17	18
Week 15							
	19	20	21	22	23	24	25
Week 16							
	26	27	28	29	30		
Week 17							

DISSERTATION 2027 | Q2 | May April June Monday Tuesday Wednesday Thursday Friday Saturday Sunday Week 17 Week 18 Week 19 Week 20 Week 21

Week 22

	21 42 3411	-					ividy Jul
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 22		MILES disserta	rtation draft con TONE: Complet tion draft compi for committee re	e PhD led and	4	5	6
Week 23	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
Week 24	21	22	23	24	25	26	27
Week 25	20	20	20				
Week 26	28	29	30				

• DISSERTATION 2027 Q3 July June August

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 26				1	2	3	4
	5	6	7	8	9	10	11
Week 27							
_	12	13	14	15	16	17	18
Week 28				with comr	PhD Defense D dissertation i mittee (must occ inal submission o	cur 2 weeks	Revise disser- tation Incorporate committee feedback
	19	20	21	22	23	24	25 and
Week 29							evisions after defense. Obtain final approval signatures.
_	26	27	28	29	30	31	
Week 30							

DISSERTATION
 Q3 August

July | September

_	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 30							1
	2	3	4	5	6	7	8
Week 31		Su Upload a and su to Grad	Ibmit dissertation oproved dissertant bmit all required uate School by c	on tion PDF forms leadline.			
	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							