	Monday	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 Submit
Week 35				-		Align se Achieve 30 mW core (pre-pump for stable las	proposal

					F.,	C	
	Monday 1	Tuesday 2	Wednesday 3	Thursday	Friday	Saturday 6	Sunday 7
Week 36	1	Identify commit	Restore amplifi exam date. Res	ed output to 13	Align amplifier mW (previous am.	benchmark perf	
	8	9	10	11	12	13	14
Week 37			Chec Verify 200 f	k pulse compre s pulse duration ations in equipm	and record		
Week 38	15	16	17	18	19	20	21
Week 39	22	23	24	25	26	27	28
Week 40	29	30					

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 40			Design and ord Finalize	er AAV-mScarle constructs and s	3 esign AAV vector t (vascular) and submit production	jRGECO1b (neu	ronal) vectors.
Week 41	6	7	8	9	10	11	12
Week 42	13	14	15	16	17	18	19
Week 43	20	21	22	23	24	25	26
Week 44	27	28	29	30	31		

	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 Complete p	16 oposal draft
Week 46						(~13 pages) in and research	osal document cluding all aims strategy for e review.
	17	18	19	20	21	22	23
Week 47							25
	24	25	26	27	28	29	30
Week 48							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 49	1	2	3	4	5	6	7
Week 50	8	9	10	11	12	13	14
Week 51	15	16 Send proposal to committee MILESTONE: Email proposal to committee 2 weeks before exam date	17	18	19	20	21
Week 52	22	23 (satisfies pre-exam requirement).	24	25	26	27	28
Week 1	29	30	31				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	<u> </u>	<u> </u>	<u> </u>	1	2	3	4
						<u> </u>	Prepare
١.							presentation
							Create slide
- e							deck and
Week 1							practice oral
-							exam
							presentation.
	E	6	7	0	9	10	1 Aim for two
	5	0	1	8	9	10	practice runs
							with lab
2							members.
\ \							members.
Week							
_							
	10	10			1.0		10
	12	13	14	15 AAV vectors	16	17	18
3				ready MILESTONE:			
Week				AAV vectors			
\ e							
>				received from			
				core facility.			
				Ready for in			
	19	20	21	22vivo animal	23	24	25
		PhD Proposal			s co mmittee fe		
4		Exam	Incorporate con	nmittee revisions			d approval form
Week 4		Qualifying			or final approva		
\\		Exam: Defend		studies.			
>		dissertation					
		proposal in oral					
		exam with					
	26	27committee	28	29	30	31	
		members.					
2							
\							
Week							
>							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 5							Cranial window surgery #1 Install cranial window and inject AAV in first pilot mouse. Begin
	2	3 Post on vo	4	5	6	7	8 expression Cranial window
Week 6		nedicate Mouse	covery #1 #1 after surger od to allow heal				surgery #2 Install cranial window and inject AAV in second pilot mouse
	9	10 Boot on wo	11	12	13	14	(staggered one Cranial window
Week 7	a	medicate Mous	covery #2 e #2 after surge e during recover				surgery #3 Install cranial window and inject AAV in third pilot mouse (further
	16	Post-op re	18 covery #3	19	20	21	22staggered Pilot imaging
Week 8	Monitor and	medicate Mouse	#3 after surge before imaging.	ry. Complete			session #1 Acquire in vivo images for Mouse #1 comparing AAV fluorescence vs
	23	24	25	26	27	28	traditional dye injection
6							methods.
Week 9							

February | April

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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Week 9							Pilot imaging	Oi
Week 10	2	3	4	5	6	7	Pilot imaging session #3 Acquire in vivo images for Mouse #3. Complete final pilot dataset for	
	9	10	11	12 Pil	13	14	15 Aim 1 Develop U-Net	
Week 11								
Week 12	16	17	18	19	20	21	22	
Week 13	23	24	25	26	27	28	29	
Week 14	30	31						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
			1		3 methodology p		5
Week 14			Write manuscrip	from AAV-based from	om Aim 1 studie	g methodology s.	and pilot results
Wee							
	6	7	8	9	10	11	12
Week 15							
Wee							
	13	14	15	16	17	18	19
Week 16							
Wee							
	20	21	22	23	24	25	26
Week 17							
Wee							
	27	28	29	30	Compare labe	ling methods	
k 18				Systematicall across diffe	y compare imag rent labeling me	ing depth; SNR; thods (AAV vs c	and contrast ye) in vivo.
Week 18							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 18					1	2	3
	4	5	6	7	8	9	10
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 Establish
Week 22							stroke protocol Complete training and IACUC approval for stroke induction method (pho-

method (photothrombosis).
Ensure all regulatory approvals are in place.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 23	Submit methodology paper Submit Aim 1 imaging methodology paper to journal	2	3	4	5	Perform stro surgeries on animal cohort t	7 stroke ske induction experimental o initiate Aim 3 maging study.
Week 24	fgr peer review and publication consideration.	9	10	11	12	13	14
	15	16	17	18 Acute-phase	19	20	21
Week 25							
Week 26	22	23	24	25	26	27	28
Week 27	29	30					

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 27			1 Enha	2 nced	Transitio	4 n phas	5
Week 28	6	7	8	9	10	11	12
Week 29	13	14	15	16	17	18	19
Week 30	20	21	22	23	24	25	26
Week 31	27	28	29	Conduct imag early chronic pl post-stroke) to	31 phase imaging ing sessions in hase (5-8 weeks observe vascular processes.		

	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 imagir post-stroke (capture long- remodeling	26 onic imaging g at ~12 weeks if needed) to term vascular and recovery erns.	27	28	29	30
Week 36	31 Stroke data complete MILESTONE: Completion of all planned longitudinal imaging sessions for						

stroke study (Aim 3).

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 36		1	2	Integrat	4 - flow	5	6
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				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
				1	2	3	4
				Quantify mic	Analyze neurov rovascular netwo	ascular coupling rk changes and	neurovascular
4				coupling	dynamics from	post-stroke imag	ing data.
Week 40							
>							
	5	6	7	8	9	10	11
	5			0	9	10	11
41							
Week 41							
>							
	12	13	14	15	16	17	18
42							
Week 42							
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	19	20	21	22	23	24	25
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Week 43							
We							
	26	27	28	29	30	31	
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Week 44							
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	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 44							1
Week 45	2	3	4	5	6	7	8
Week 46	9	10	11	12	13	14	15 Prepare
Week 47	16	17	18	19	20	21	22
Week 48	23	24	25	26	27	28	29
Week 49	30						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1	2	3 PhD Dissertat	4 Defense	5	6
Week 49		Complete disser	tation write-up;	final defense; an	d all graduation	requirements by	Summer 2027.
	7	8	9	10	11	12	13
Week 50							
	14	15	16	17 Draft Int	18	19	20
Week 51							
	21	22	23	24	25	26	27
Week 52							
	28	29	30	31			
Week 53							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 53					Write chapter	aft Aim 1 chap detailing Aim 1 experiments; and dissertation.	(AAV imaging)
Week 1	4	5	6	7	8	9	10
Week 2	11	12	13	14	Write chapte	16 aft Aim 2 chaper or detailing Aim orm) methods a dissertation.	2 (dual-color
Week 3	18	19	20	21	22	23	24
Week 4	25	26	27	28	29	30	31

		- ·		T	F	C	6 1
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1	2	3	4 <mark>aft A</mark> im 3 chapt	5	6	7
	M/rita chant	r datailing Aim	2 (stroke model	imaging study)	mothodo: doto:	and findings for	discortation
5	vviite chapte	r detailing Aim	3 (Stroke moder	imaging study)	methods, data,	and inidings for	uissertation.
l k							
Week							
	8	9	10	11	12	13	14
9							
Week 6							
×							
	15	16	17	18	19	20	21
7							
e X							
Week 7							
-							
	22	23	24	25	26	27	28
∞							
송							
Week 8							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	1	2		4 Praft Conclusion		6	7
	Write fin	al dissertation c	hapter summariz	ing findings; im	s plications; and fi	iture research di	rections.
Week 9					·		
	8	9	10	11	12	13	14
Week 10							
	15	16	17	18	19	20	21
Week 11							
	22	23	24	25	26	27	28
Week 12							
	29	30	31				
Week 13							

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 17						Dissertation draft complete MILESTONE: Complete PhD dissertation draft compiled and ready for	2
Week 18	3	4	5	6	7	8committee review.	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
Week 23	7	8	9	10	11	12	13
Week 24	14	15	16	17	18	19	20
Week 25	21	22	23	24	25	26	27
Week 26	28	29	30				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 26				1	2	3	4
Week 27	5	6	7	8	9	10	11
Week 28	12	13	14	PhD Defense Defend PhD dissertation in oral exam with committee (must occur 2 weeks before	Incorporate co after defense. (17 evise dissertation mmittee feedbac Obtain final appr	k and revisions
Week 29	19	20	21	final submission deadline).	23	24	25
Week 30	26	27	28	29	30	31	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 30							Submit dissertation Upload approved dissertation PDF and submit all
Week 31	2	3	4	5	6	7	required forms to Graduate School by deadline.
Week 32	9	10	11	12	13	14	15
Week 33	16	17	18	19	20	21	22
Week 34	23	24	25	26	27	28	29
Week 35	30	31					