

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 31					1	2	3
Week 32	4	5	6	7	8	9	10
Week 33	11	12	13	14	15	16	17
Week 34	18	19	20	21	22	23	24
Week 35	25	26	27	28	29	30	31
Draft timeline v1 Create initial project timeline for Tuesday review with Andy. Bring both printed and digital copies to meeting.							

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 36	1 [Admin]	2 [Proposal]	3 [Admin]	4 [Admin] Serve as foregr	5 [Proposal] Submit Send initial for review	6 [Admin] <b>Advance to candidacy</b> Ensure doctoral candidacy status is confirmed (should already be completed by 5th year).	7 [Admin]
Week 37	8 [Admin]	9 [Admin] P	10 [Proposal] Restore amplified output to 130 mW (previous benchm	11 [Admin]	12 [Proposal] Define proposal... Lab culture...	13 [Admin] <b>Update commit- tee membership</b> Update committee mem- bership if needed and file 'Request for Change in Doctoral Commit- tee' form if required.	14 [Admin]
Week 38	15 [Proposal] <b>Expand proposal draft</b> Develop 12-page Research Strategy section from outline following BME proposal guidelines.	16 [Proposal]	17 [Proposal]	18 [Proposal]	19 [Proposal]	20 [Proposal]	21 [Proposal]
Week 39	22 [Admin]	23 [Admin]	24 [Admin]	25 [Admin]	26 [Admin]	27 [Admin]	28 [Proposal] <b>Confirm exam date</b> Oral exam date scheduled. Must send final proposal to committee 2 weeks prior to exam.
Week 40	29 [Admin]	30 [Admin]					



	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 44						1	2
Week 45	3	4	5	6	7	8	9
Week 46	10	11	12	13	14	15	16
	<div> <b>Draft Methods and Timeline sections</b>  Write detailed Methods section and comprehensive timeline for proposal. </div>						
Week 47	17	18	19	20	21	22	23
Week 48	24	25	26	27	28	29	30
					<div> <b>Send proposal to committee</b>  Email proposal to committee 2 weeks before exam date (satisfies pre-exam requirement). </div>		

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 49	1	2	3	4	5	6	7
	<b>Finalize proposal draft and formatting</b> Complete full proposal document (~13 pages) with proper formatting and submit for review.						
Week 50	8	9	10	11	12	13	14
	<b>Prepare presentation</b> Create slide deck and practice oral exam presentation. Aim for two practice runs with lab members.						
Week 51	15	16	17	18	19	20	21
					Ph Qualify sertatio with	<b>AAV vectors ready</b> AAV vectors received from core facility. Ready for in vivo animal injections to begin expression studies.	
Week 52	22	23	24	25	26	27	28
		<b>Address committee feedback</b> Incorporate committee revisions into proposal and submit signed approval form for final approval.					
Week 1	29	30	31				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 1				1	2	3	4
				Data backup...			
				Maintain...			
				+1 more			
Week 2	5	6	7	8	9	10	11
Week 3	12	13	14	15	16	17	18
Week 4	19	20	21	22	23	24	25
Week 5	26	27	28	29	30	31	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 5							1 <div>Cranial window surgeries (3 mice) Install cranial windows and inject AAV in three pilot mice with staggered timing (1 week apart).</div>
Week 6	2	3	4	5	6	7	8
Week 7	9	10	11	12	13	14	15
Week 8	16	17	18	19	20	21	22
Week 9	23	24	25	26	27 <div>Post-operative recovery and monitoring Monitor and medicate all three mice after surgery. Maintain analgesia schedule during recovery period.</div>	28	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 9							1
Week 10	2	3	4	5	6	7	8
Week 11	9	10	11	12	13	14	15
Week 12	16	17	18	19	20	21	22
Week 13	23	24	25	26	27	28	29
Week 14	30	31					

**Pilot imaging sessions (3 mice)**  
Acquire in vivo images for all three mice comparing AAV fluorescence vs traditional dye injection methods.



	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 14			1	2	3	4	5
			<b>Equipment maintenance log - Q3 2026</b> Maintain detailed rig log for any alignment changes and communicate modifications to colleagues.				
Week 15	6	7	8	9	10	11	12
Week 16	13	14	15	16	17	18	19
				<b>Pilot datasets complete</b> Three pilot two-photon imaging datasets acquired for Aim 1 validation and proposal.			<div>Draft...</div> <div>Configure...</div> <div>+1 more</div>
Week 17	20	21	22	23	24	25	26
		<b>Process pilot data</b> Perform image registration and SNR analysis. Calculate contrast metrics and refine imaging protocols.					
Week 18	27	28	29	30			

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 18					1	2	3
Week 19	4	5	6	7	8	9	10
Week 20	11	12	13	14	15	16	17
Week 21	18	19	20	21	22	23	24
Week 22	25	26	27	28	29	30	31

**Design U-Net architecture and training data**  
Design U-Net architecture for vascular segmentation and prepare training datasets from pilot images.

**Configure LSCI for blood flow measurements**  
Configure Laser Speckle Contrast Imaging system for blood flow

**Compare labeling methods**  
Systematically compare imaging depth; SNR; and contrast across different labeling methods (AAV vs dye) in vivo.

**Implement and test segmentation pipeline**  
Implement U-Net pipeline and test performance on pilot datasets for vascular feature detection.

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

**Establish stroke protocol**  
Complete training and IACUC approval for stroke induction method (photothrombosis). Ensure all regulatory approvals are in place.

**Induce stroke**  
Perform stroke induction surgeries on experimental animal cohort to initiate Aim 3 longitudinal imaging study.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 27			1	2	3	4	5
			<b>Equipment maintenance log - Q4 2026</b> Maintain detailed rig log for any alignment changes and communicate modifications to colleagues.				
Week 28	6	7	8	9	10	11	12
			<b>Acute-phase imaging</b> Conduct two-photon + LSCI imaging sessions in acute phase (0-1 week post-stroke) to capture immediate vascular changes.				
Week 29	13	14	15	16	17	18	19
		<b>Adapt ML pipeline for stroke data</b> Adapt machine learning segmentation pipeline for stroke dataset analysis and vascular feature extraction.					Submit...
						Enhanced AAV...	
Week 30	20	21	22	23	24	25	26
	<b>Transition-phase imaging</b> Conduct imaging sessions during subacute transition phase (2-4 weeks post-stroke) to capture evolving vascular dynamics.						
Week 31	27	28	29	30	31		

	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	25	26	27	28	29	30
Week 36	31						

Stabilization-phase imaging

Conduct imaging sessions in early chronic phase (5-8 weeks post-stroke) to observe vascular remodeling processes.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 36		1 Annual progress...	2	3	4 Maintain...	5	6
Week 37	7	8	9	10	11	12	13
Week 38	14	15	16 Extended chronic imaging Conduct imaging at ~12 weeks post-stroke (if needed) to capture long-term vascular remodeling and recovery patterns.	17	18	19	20
Week 39	21 Stroke data complete Completion of all planned longitudinal imaging sessions for stroke	22	23	24	25	26 Integrate flow data Combine LSCI blood flow metrics with two-photon structural/functional data for comprehensive vascular analysis.	27
Week 40	28	29	30				

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 40				1	2	3	4
Week 41	5	6	7	8	9	10	11
Week 42	12	13	14	15	16	17	18
Week 43	19	20	21	22	23	24	25
Week 44	26	27	28	29	30	31	

**Equipment maintenance log - Q1 2027**  
Maintain detailed rig log for any alignment changes and communicate modifications to colleagues.

**Analyze neurovascular coupling**  
Quantify microvascular network changes and neurovascular coupling dynamics from post-stroke imaging data.

	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
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
Week 49		1	2	3	4	5	6
Week 50	7	8	9	10	11	12	13
				Prepare...			
				Draft second...			
Week 51	14	15	16	17	18	19	20
						Draft...	
						PhD...	
						+1 more	
Week 52	21	22	23	24	25	26	27
Week 53	28	29	30	31			

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 53					1 <div>Apply for...</div>	2 <div>Maintain...</div>	3
Week 1	4	5	6	7	8 <div>+1 more</div>	9	10
Week 2	11	12	13	14	15	16	17
Week 3	18	19	20	21	22	23	24
Week 4	25	26	27	28	29	30	31

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 9	1	2	3	4	5	6	7
Week 10	8	9	10	11	12	13	14
Week 11	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
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		

**Equipment maintenance log - Q3 2027**  
Maintain detailed rig log for any alignment changes and communicate modifications to colleagues.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 17						1	2
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 Request final...	2 Maintain...	3	4	5	6
Week 23	7	8	9	10	11	12	13
Week 24	14	15	16	17	18	19 Dissertation draft complete Complete PhD dissertation draft compiled and ready for committee review.	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
				<b>Equipment maintenance log - Q4 2027</b> Maintain detailed rig log for any alignment changes and communicate modifications to colleagues.			
Week 27	5	6	7	8	9	10	11
Week 28	12	13	14	15	16	17	18
						<b>PhD Defense</b> Defend PhD dissertation in oral exam with committee (must occur 2 weeks before final submission deadline).	
Week 29	19	20	21	22	23	24	25
			<b>Revise dissertation</b> Incorporate committee feedback and revisions after defense. Obtain final approval signatures.				
Week 30	26	27	28	29	30	31	



	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Week 30							1
Week 31	2	3	4	5	6	7	8
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					

Submit dissertation

Upload approved dissertation PDF and submit all required forms to Graduate School by deadline.