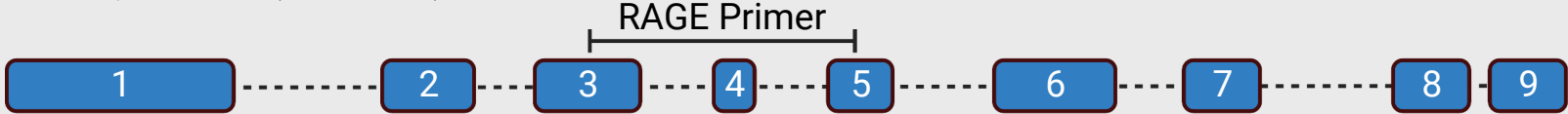
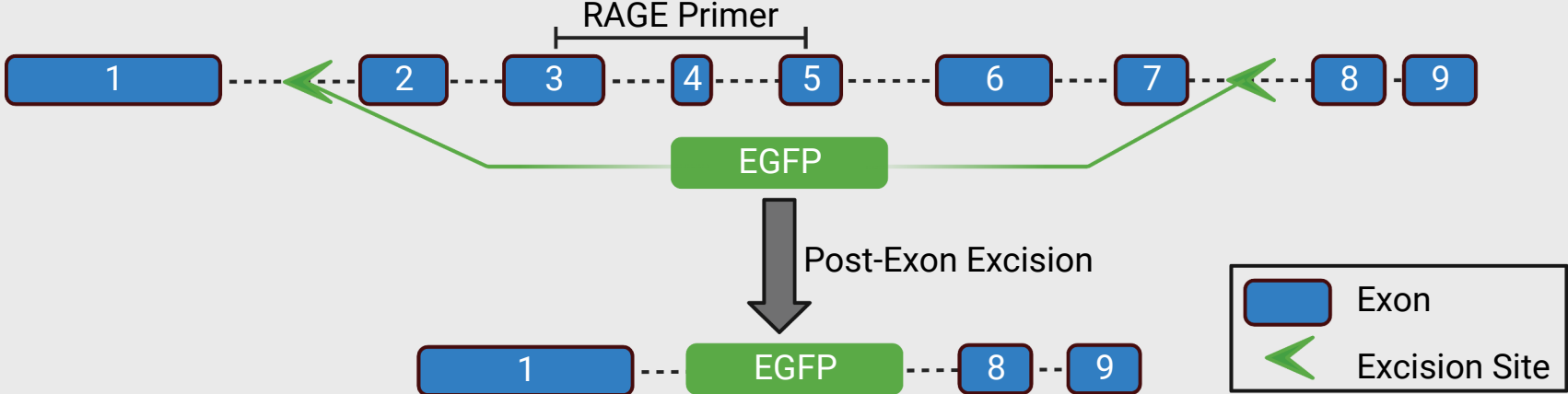


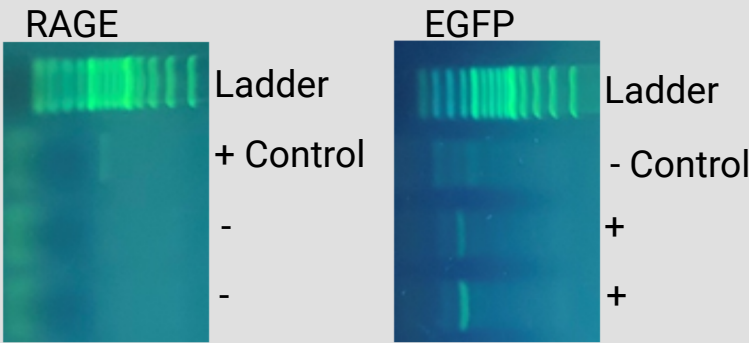
RAGE Wildtype Mice (C57/BLJ6)

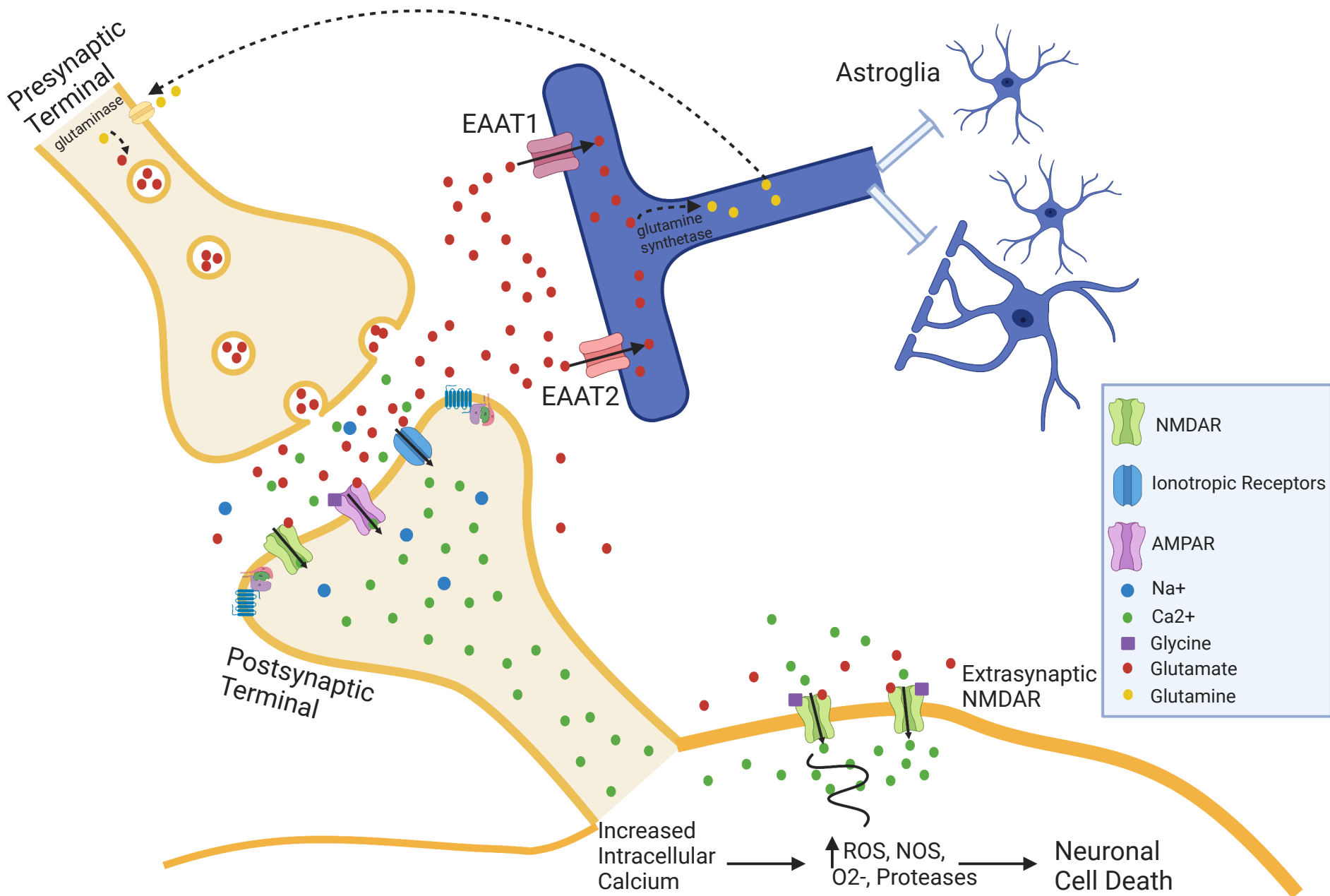


RAGE KO Mice

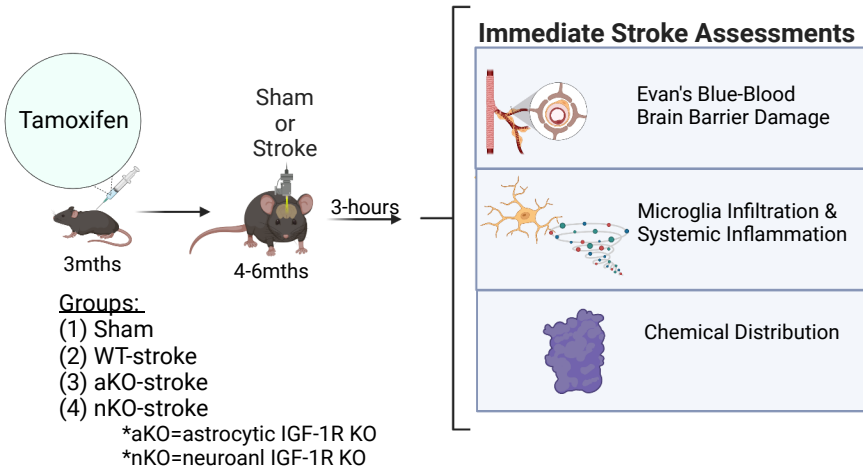


PCR Results (KO Verification)

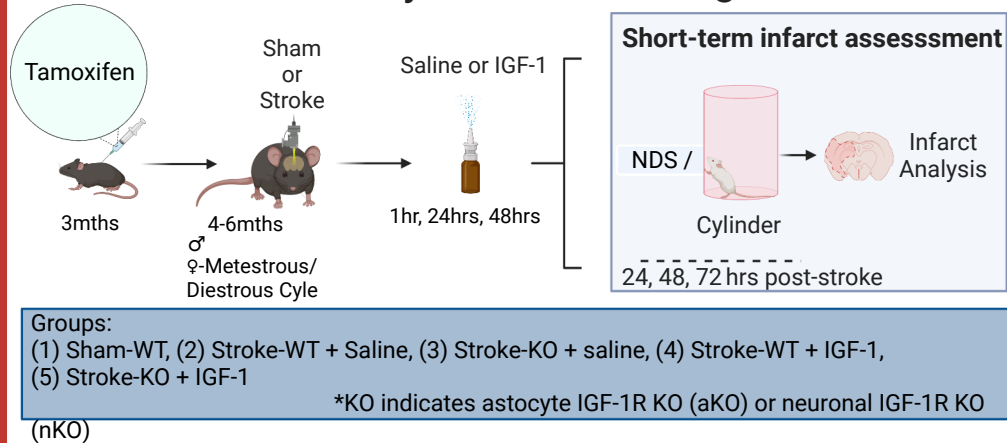




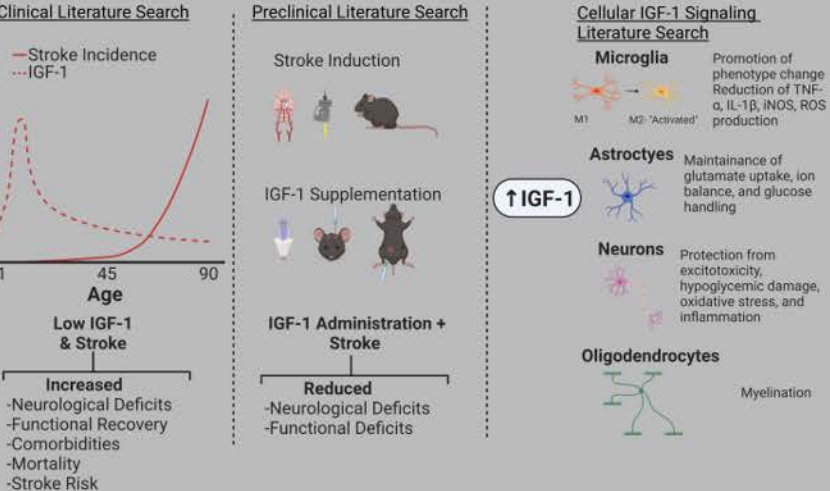
3 hour Post-Stroke Design



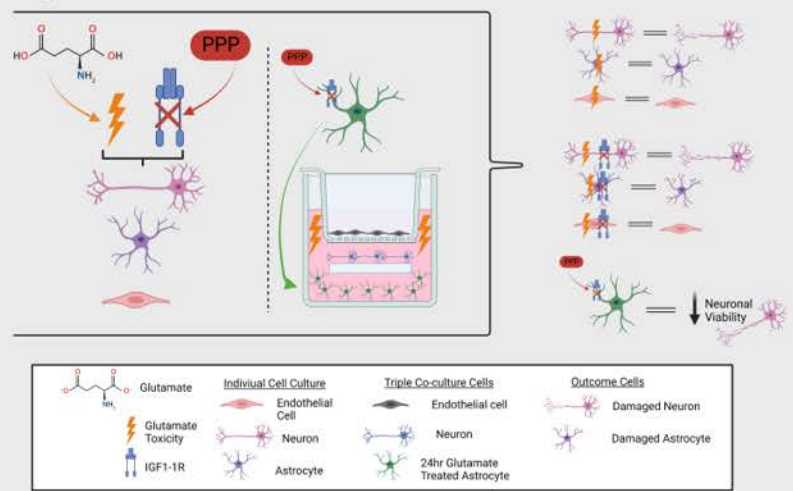
3 Day Post-Stroke Design



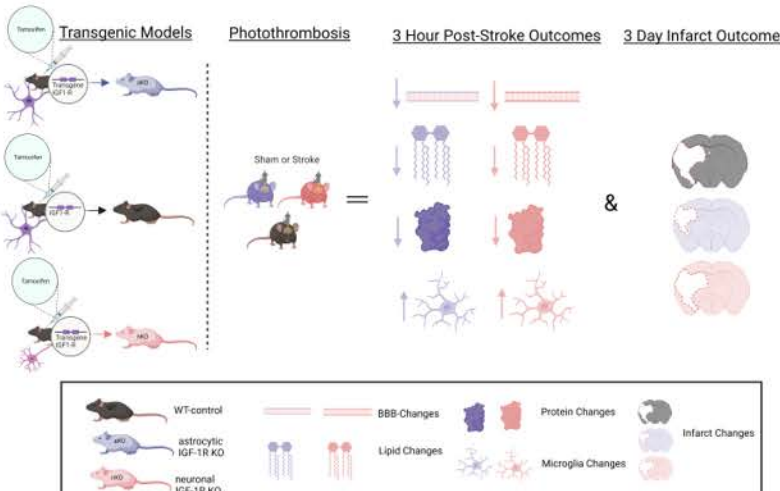
Chapter 1: Preclinical and Clinical Evidence of IGF-1 as a Prognostic Marker and Acute Intervention with Ischemic Stroke



Chapter 2: IGF-1 Differentially Modulates Glutamate-Induced Toxicity and Stress in Cells of the Neurogliovascular Unit



Chapter 3: Neuronal and Astrocyte Insulin-like Growth Factor-1 Signaling Differentially Modulates Ischemic Stroke Damage



Required Course Work

Fall: Bisc 504,
Phcl 661, BMS
601
Spring: Psy 511,
Phcl 662, Bisc
579

Summer: Phcl
797

Fall: BMS 797,
BMS 643, Phcl
675, Grad 600,
Bms 602
Spring: BMS
641, BMS 797

Summer: Phcl
797

Year 1

Completed
undergrad.
Neuro-IGFR
Project

Year 2

Published
IGF-1/Stroke
Lit. Review

**Advance
to
Candidacy**

Fall: BMS 605,
Phcl 797
Spring: Phcl
797, Phcl 612

**MBL
SPINES**

Year 3

AIM 1

Published
Editorial

Under Review Neuro-
IGFR, Astro-IGFR, &
Modulation of IGFR
Manuscripts (3)

hs-CRP & Stroke
JHS Project
Manuscript

**Research
Prospectus**

Fall: Phcl 797,
Phcl 611

Year 4

AIM 2

Complete
AGE/RAGE
Project

Aim 1
Manuscript

**Write & Defend
Dissertation**

Secure post-doc

Year 5

Aim 2
and AGE/RAGE
Manuscript (2)