

**CONFIDENTIAL:** Review Form for Applicant

**Candidate:**

**Institution:**

1. What are your short-term career goals (1-3y)?
2. What are your long-term career goals (>5y)?
2. Describe your previous research experience.
3. How will further research training help you achieve your goals?
4. What do you know about Dr. Rodrigo Medeiros' research?
5. Why do you want to work under Dr. Rodrigo Medeiros mentorship?
5. What are your expectations for the research training in the Neurula lab?
6. List your strengths (please list 5-10 characteristics)
7. List your weaknesses (please list 5-10 characteristics)
8. Do you require financial support?
9. Indicate your weekly availability for the internship and what date you would like to start in the position

*Start date:*

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Morning							
Afternoon							
Evening							

### General Knowledge Assessment

	Outstanding (top 5%)	Excellent (top 10%)	Good (top 25%)	Average (most people)	Below average (below 25%)	Poor (below 10%)
Alzheimer's disease						
Neuro-inflammation						
Other neurodegenerative disease						
Learning and memory						

### Personal Assessment

	Outstanding (top 5%)	Excellent (top 10%)	Good (top 25%)	Average (most people)	Below average (below 25%)	Poor (below 10%)
Cleanliness/Organization						
Emotional stability						
Empathy						
Ethics						
Initiative/Motivation						
Intellectual ability						
Integrity						
Judgment						
Leadership						
Oral communication						
Personal and social maturity						
Team skills						
Reaction to criticism						
Reason for becoming a researcher						
Technical experimental ability						
Time management						
Reliability						
Workplace health and safety						
Written communication						
Self-awareness						

### Laboratory Ability Assessment

Level of knowledge	Expert (Can innovate)	Excellent (Can teach)	Good (Can do)	Average (Can tell)	Not familiar	N/A
Transgenic mouse models of amyloidosis						
Transgenic mouse models of tauopathies						
Other mouse models of Alzheimer's disease						
Other transgenic models of neurodegeneration						
Handle mice						
Stereotaxic surgery in mice						
Brain cannula implantation in mice						
Osmotic minipumps (alzet) in mice						
Other animal surgery in mice						
Electroporation in mice						
Animal IP treatment						
Animal Oral treatment						
Animal SC treatment						
Behavior: Open field						
Behavior: Morris water maze						
Behavior: Contextual fear conditioning						
Other behavior approaches						



Level of knowledge	Expert (Can innovate)	Excellent (Can teach)	Good (Can do)	Average (Can tell)	Not familiar	N/A
In vivo brain imaging: MRI/PET						
In vivo 2-photon microscopy						
Animal perfusion						
Adult mice brain microdissection						
In vivo blood collection in mice						
Trans-cardiac blood collection in mice						
CSF collection in mice						
Other animal tissue collection						
Electrophysiological recording from brain slices						
Embryonic brain microdissection in mice						
Neonatal brain microdissection in mice						
Primary neuronal cell culture						
Primary astrocyte cell culture						
Primary microglia cell culture						
Inducible pluripotent stem cell culture						
Inducible pluripotent stem cell differentiation						
Other cell culture						
Whole cell patch clamp						
Production of AAVs						
Production of lentivirus						
Handle human samples						
Tissue protein extraction						
Tissue RNA extraction						
Tissue DNA extraction						
Western blot						
RT-PCR						
RNAseq						
CHIPseq						
Immunohistochemistry						
Light microscopy						
Confocal microscopy						
Stereology microscopy						
Nanostring						
Meso scale discovery multiplex						
FACS						
ELISA						
Data analysis/Statistics						
Graphpad software						
Imaris software						
MATLab software						
Working with chemicals						
Working with sharps and glassware						
Liquid nitrogen & dry ice						
Fume cupboards, laminar flow & BSCII cabinets						
Ultracentrifuges						
Stirring, shaking & mixing devices						
Microwaves						
Electrophoresis, Gel doc & Developer						
Incubators & ovens						
Pipettes						
Dry block heaters						
Waterbaths						
Balances						
pH meter						
Vacuum lines						
Sonication						