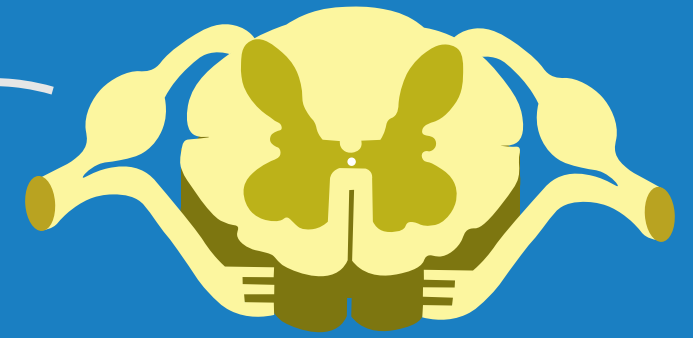


1 DRG isolation

Spinal cord dissection from embryo

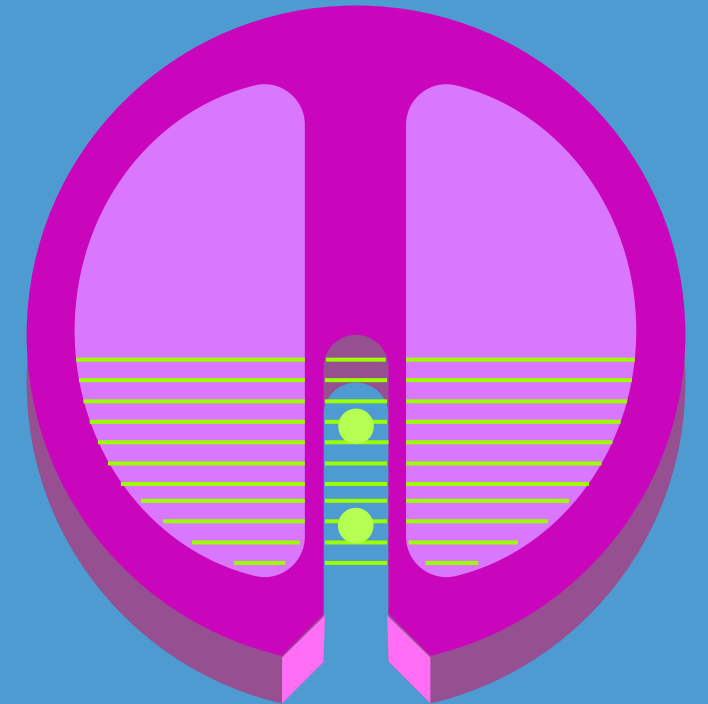
Isolate DRGs from spinal cord



Coat scratched plate with collagen and polymerize

Seed 2 DRGs in central chamber

Allow axonal growth along scratches  
(20 days)



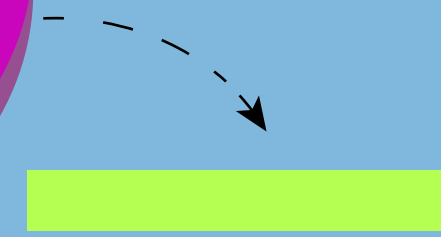
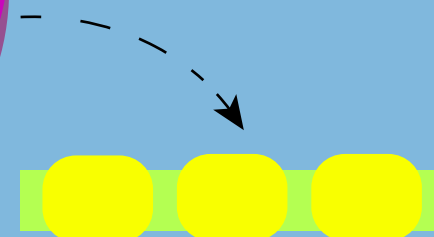
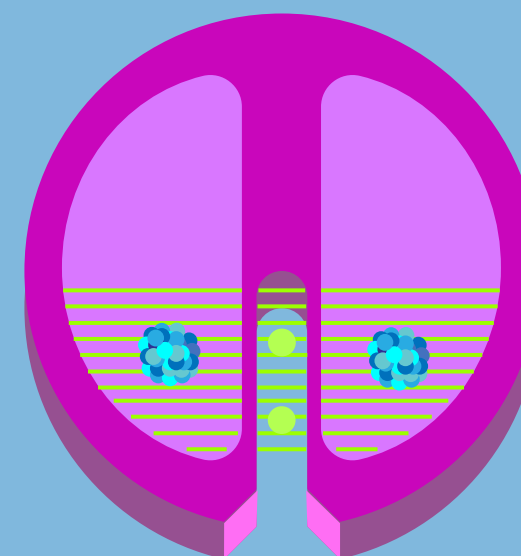
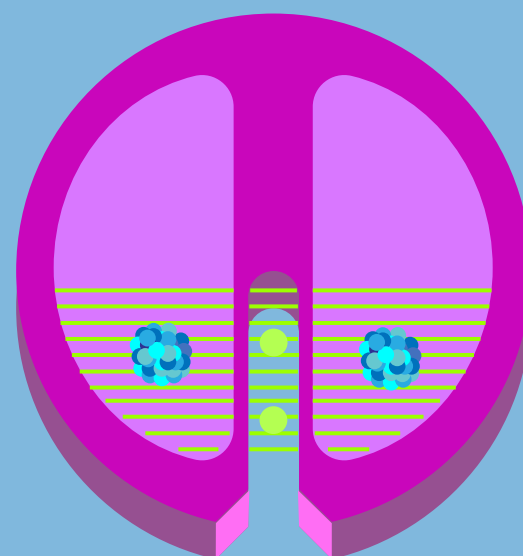
Axon myelination of seeded DRGs

No axon myelination

Seed 150,000 oligodendrocytes per chamber  
to allow for DRG axon myelination  
(14 days)

Seed one neurosphere per  
myelinated chamber

Seed one neurosphere per  
unmyelinated chamber



3 Neurosphere seeding  
on DRG axons

Treat with drug of choice followed by live  
imaging  
(3-7 days)