#### Center for Integrative Brain Research – Nino Ramirez

Alena Kantor

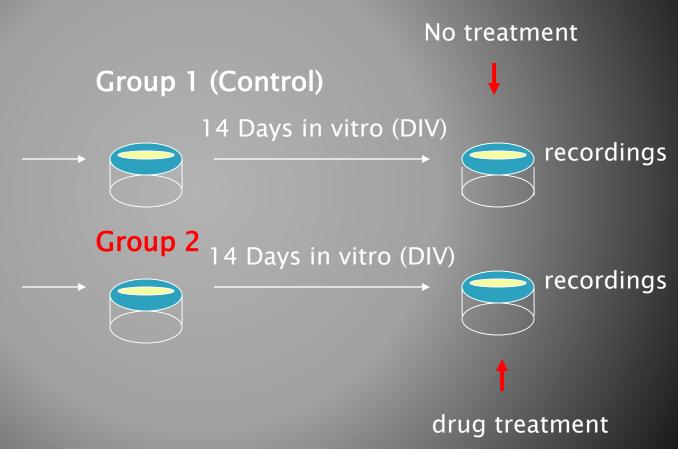
### Primary Tasks

- Organotypic Slice Preparation, Culture, and Recordings
- Genotyping
- Making Artificial Cerebrospinal (ACSF) and other solutions
- Observing
  - Slicing
  - Patching
  - Recording

#### Organotypic Slicing- How it Works

Slice preparation at postnatal day 5 (P5)



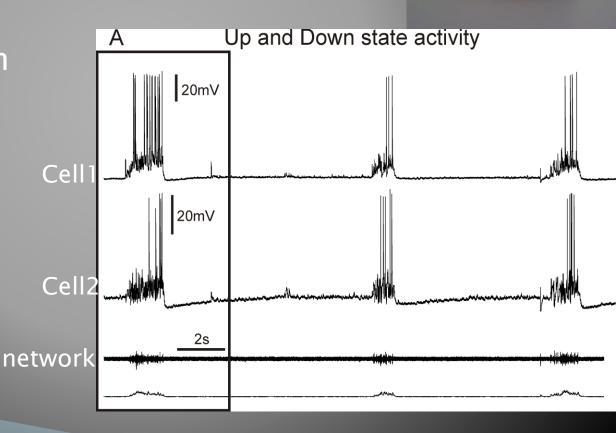




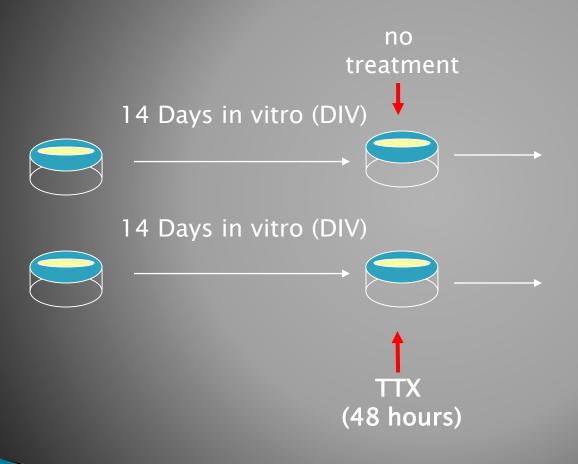
## Culture and Recordings

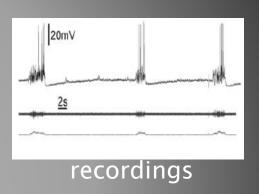
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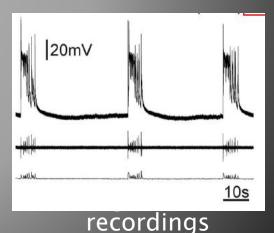
- Culture
  - Culture Medium
  - Sterilization
  - Some infection
- Recordings



# Change of Network Activity By Drug Treatments







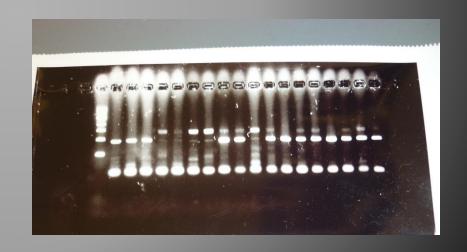
### Genotyping

#### Purpose

- Determine particular genotype (Het, Mutant, Wildtype)
- Used with analyzing data

#### Technique

- Tail-Clipping
- DNA Extraction
- PCR Reaction
- Gel Electrophoresis
- Analysis



### Acknowledgements

- Summer neuroscience program
- Researchers in the lab
- Nino
- Maggie and Suk-Lin

# Thank you!