

2/10/02

Research problems for Purcell et al.

Embryology

1) Do all cells contain ^{antib} same DNA? Determinant

Technique hybridized, which DNA is lost.

Prepare DNA differences Hybridize

- a) Intact cells 1) DNA
- b) DNA turnover (Daughter)

2) Prot, RNA, DNA exp. at diff stages. Don't know sort of things using reconstituted egg. (Oocytes) Determinant egg.

3) then Prot exp. as time

4) ERNA as time (early)

5) Oogenesis - diff stages of egg formation early labeled. Take eggs from diff parts of uterus.

2) Unusual aspects of Neurons

1) Ectoderm - cell position, # & lineage

3) Determinant embryology

a) DNA diminution - lost? Degraded? What used? Same portion of DNA dest in each tissue?

4) Oocytes forms numerous quantities of eggs. Synchronizing

5) Adult # neurons

Research Problems Mesencephalic Nerve axons

- 1) ~~Ascus~~ - ~~Anger Dye~~ ~~Deter~~
~~neuron~~ ~~axons~~
- 2) ~~Get Mentors (behavioral) Coult~~
~~with diff in sensory axon~~
 - a) Development of embryos
 - * b) \Rightarrow \neq diff in sensory axon
Coult with behavior
- 3) ~~Get developmental mutants~~ ~~Tubule~~
~~or Parasit~~
~~or Relifer~~

Research Problem

~~I Behaviour & Personality~~

- 1) Identify topics & terms & sensitivity to research.
 - a) classes.
 - b) details

2) 1) ⁹⁴ Design selection techniques.

2) ~~Get content~~ ^(P2) with opposite terms.

a) ~~Get content with no terms~~

~~Method~~ 1) ~~Method~~
 2) ~~Open to F-2-3 in Batt culture.~~

3) ~~Use selection techniques~~

3) ~~Close or single pair matching~~

3) ~~Groups for each method.~~

1) $N \times N$ wt (homogeneous) $\frac{P}{N \times N}$

2) $M_1 \times M_2$ (any wt recombin.) ~~same~~

- x M_3
- x M_4
- x M_5
- y M_6
- etc

- M_2 x M_1
- M_2
- M_3
- etc

	M_1	1	2	3	4	5	6
M_1		x	x	x	x	x	x
2		x	x	x	x	-	-
3							
4							
5							
6							

I Anatomy

- 1) ~~EMG~~ ^{EMG} of Nervous system & extensor body.
- 2) EM of ~~apropos~~ ^{apropos}: Mepall symptoms

III Neurophysiology + physiology

- 1) Assess
1)

4/107

Panel

1) Egg of *C. briggsae*

1) Post-fertilization

2) ¹⁴C DNA from egg + sperm

¹⁴C DNA from diff times of adult

C. briggsae

2) Traced ¹⁴C lineage of neurons. ~~Traced~~ Neurons

1) Radioautograph

¹⁴C Thymine

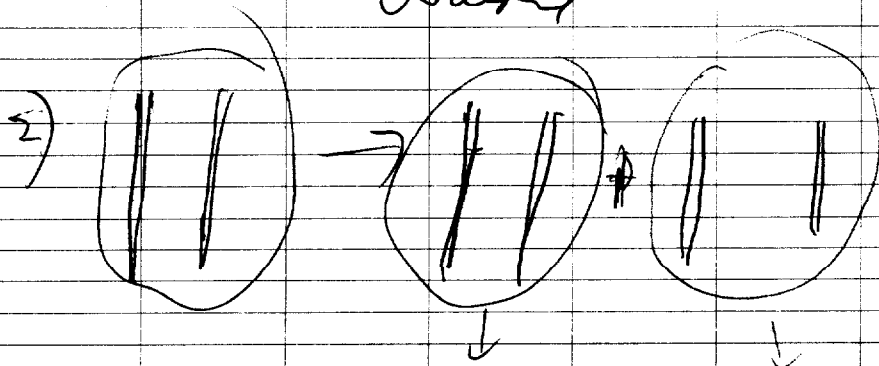
2) Plot

of Pos

Labels

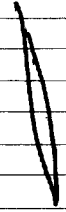
1) Order all neurons ¹⁴C at diff times of embryonic development. Follow by dissection of individual neurons.

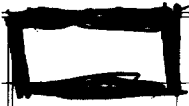
also by ¹⁴C AA #1000



Parten: In den developed,

~~New York~~
~~London~~
~~Paris~~
Düsseldorf





Just seen on road, today

servant

Van Boer

04/07

Mon.

1) Kertel - Development of ~~protein~~ to amino

2) ~~protein~~ labeled amino acids } isotopy
Thymidine }
AA }
to label egg; sperm

3) ^{permeabilized} freshly hatched animal with labeled amino acids
Thymidine
AA
acid

a) Kertel & Fair

1) Det. time of RNA synthesis

a) Class of RNA
rRNA
mRNA

2) DNA

3) Protein

4/22/67

Best Ideas for Selection - Development

1) Need mutants which have opposite traits, ~~rather than~~
those which have no. effects.

* 1) Opposite traits - Nervous patterns
but ~~some~~ some permeability
still active & receptors still active

- 2) No basis -
- 1) Permeability change
 - 2) Receptor ~~change~~ ^{calls it}
 - 3) ~~Block~~ Block in pattern
 - 4) Block in effect in pattern

2) ~~Find~~ Find chemodectoma agents.

1) Steroids

2) AA

3) Culture fluid.

4) Other normal (opposite sex) (in mind) (in agar)

5) pH

6) Nutrients

7) C. B. B. med.

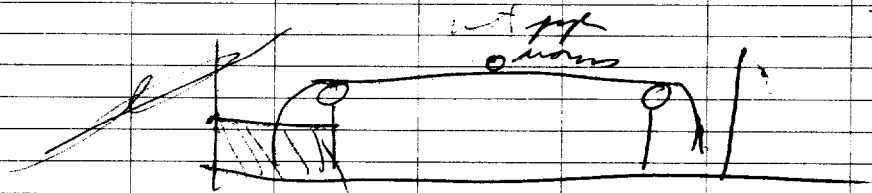
8) ~~EC~~ Ecdy plaques.

Other, Paragill has found toxins in
amphids.

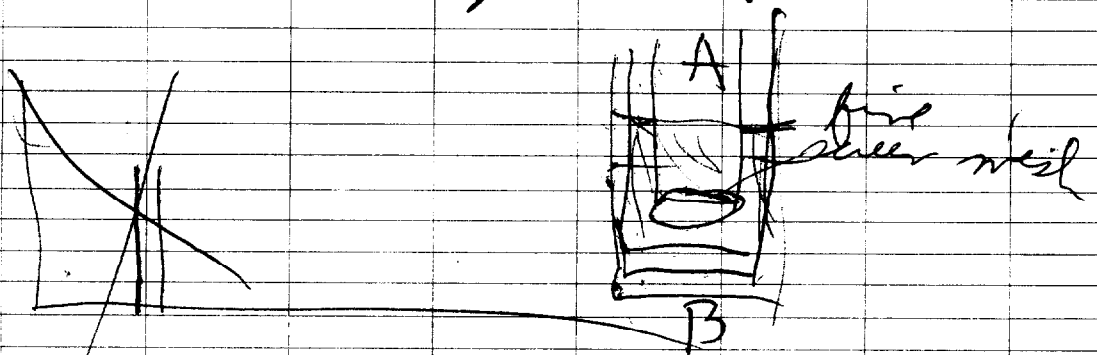
9) ~~Light~~ Electric current

Dialysis loop
Squid + water

11) direct H.O. self flow. (Chantrelle type.)



Idea 12) Touch taxis - enter capsules if touch. Or not enter capsules if touch (not random choice)
 or Go thru first screen 00000
 no not go thru first screen



1) Start with adults owl.
 then ^{mean} to give for ^{target} after trial.
 1st attempt open | close
 2nd " close | open
 2) after trial

