Review what of science and patterns of discovery in light of my own history. (How pertinent are?)

B + T -> ESR idea of biogenesis

Avery -- unencapsulated bacteria to:

Transform Neurospora. Conqueror of $\lambda$

(a) proposition of technique $\rightarrow$ i) environment, put

Delta prime. $\gamma$-gun a field

Didn't work -- carcinosis.

Didn't work. Validated.

Discover new question.

Try it!

Walsal.

Exploration.

Cyanoflaunarios

map to biology $\rightarrow$ genes in bacteria

physical matrix, genes $\rightarrow$ enzymes

lot of mutations

What's wrong?
Theoretical background: prior focus
- Edie x M. Schreiner
- Selwood x Enterobacter medically important
  - had developed resistance
  - Gaba of killing: R. hormann...
  - different strains. 

J. L. Cavanagh & C. E. Col.
  - eventually outlined
  - FA! (?) gaba in feedback (R. hormann?)
  - question: What was FA? Continued by phrase: Why?
  - HT-E went to suggest it?

It's magic! -> J. L. Cavanagh.
- anti-gaba transfer
  - preferred assay for genetic analysis

Experiment:
- Understand K-w. / collaborative analyses
  - analyze the HT...

accidental failure - K-w. not test guessed
- mutagenesis procedure
  - Demerec et al. (1956)?

Notes:
- details from K-w.?
Explication. p. 21

Excess of activating enzyme. Canonical.

 fraud

 Cyp

Base

 Baseline: 

Needless bitter essays. Nor flung. By these essays.

 method

Often less crude. Extract of mutants (irreverent).

many other projects.

shopping bands.

small groups of scientists.

caged young ligaments.

T3. Surprised pH axes.

observed toxicity = induced effect (animal).
All theory, but...

Marx since 1938: Astmony & Cosmology > most bijective
1937- Sprott & Holdane: (model of nuclear energy with organ)

Grad scientificNext

If we think scientists could forecast such
prompt t'he passion. Plants < 45°
launched a satellite?"n

Pried that is that vacuum.

Quantum policy: A priori planning to: National
Destitution: 1. Recruit

Competitive

Theoretical planning for Mars missions
Microbiology theory of Mars
(a) Discover new molecules and graphs we developed theory.

?? How apply computer technology to science. What they in

good for.

mol. composition — mol. graphs

(I'd heard of Rosencwaig. Hmm?)

Heinz & Blum.

Designing algorithms for molecules.

Discuss: can I organize that data? Learn public feed.

graph theory development? (computer stuff)

Skepticism about AI.

Can they retrogress models substantially?
Biography

Stat-Soring method: Ctsna Jacob
Collecting data.

Introduced as a problem 1970: Reoital Site
1975: Tatum
1974- CAB BS
1975 - Tatum

Began to see booyning and to recover from memory.
half-hearted. Pete firmly turns me off.
I don't want to be wed by any new company.

more precise that next quiet.

and in all close (and more) spend to improve myself

is any! and that may still be best many which

(as long as I can tile that wait)
Method needed for genuine mutant.

Response to cloud models.

Concluding remarks.

- Scientific application of science.
- Science is always controversial.
- Method: abstraction of ground truth.
- Ground truth is true.
- Bring all the changes (e.g., what the style was possible). Explain.
- The systematic 3.3.
- Scientifically significant, not just significant.
- Go to bed.
- Half a century.
- Half a century.
- Half a century.
- Learn everything possible about a method. Ignore for thin.
- Fastidious convergence.

- Formal proof, see style 12, p. 50.
- Self-referential effect: applying method before case.
- Revelation of method; nature, learned.

I'm in a room.

- Use of unanswerable questions:
- Deciding.
- Sex, time, delimiter.
- Combination of circumstances.
- Constant change, but really change.
- Interpreting on method as method.
- Not adequate; to values.
- What am I measuring? Just to be, as instrument.
- What else has interpreted mental? Do they always return.
- Does it make sense? How much time?
Penicillin

1. L-form - Not on paper generated by penicillin.

2. Penicillin types: growing cells

3. Weiss 2 - serum sterilizes protoplasts

Molecular solution with an antigen:
How do we recall E. coli by

are L-form protoplasts?

Then methodical study (clinical chemistry).

recipient methods

molecular models

hardened more clinical

theory from work in lab.

no antibodies - chemistry

Get the theory, argument, hard knocks

nutrition about organisms

very strong potential in biology, chemistry,

mathematics - physics, math.
F_, and accidental discovery
prompt and again. → plasmid change.

day, control? y Morse. → day. →

Field suddenly changed. Became confusing to work
special conditions (new proto and strains). Stayed about facilita
Accumulation of knowledge. Impetus of questions
leading to interest. Gratitude as a mission.
→ internal cell + smudge. (Then)

→ etiology
→ A I.
→ elderly

→ Stanford. Mentals (?) to organize a large laboratory with
than from any other lab.

I didn't know to demand. Still very young. Wonder what
what kind of research experience I do. and not dominate aging.
Socio-historical circumstances.

Generational shift.
- b. 1925
- previous autodidact 1935-1941
- Columbia College, Med School
- V-12

Jews: 1st b. son orthodox rebbi
- immigrant from Israel; NYC advantages; Anti-
- observational skills, self-confidence
- Hitler, WWII

- Escaped CP; institutionalization; depression, discrimination
- 1948-1960. NIH, expansion of science (e.g., Stapeh)

Why such a generalist? Science as a "religion" -> scientific method.
(Whistler? Wells? Russell?)

1. Curiosity
2. Integration
3. Responsibility/guilt / Jews, survival
4. Self-confidence. Early success, parental foundation
5. Autobiolat. "Too easy"

- author of physics