NEDTRAL

MAWATIAN HONEY CREEPERS DESCENDED BROM ONE ANCESTOR.

ISLANDS?

HYP1. ABGCENSE OF PREDATORS

WINGS AS A MEANS TO GET AWAY

HYP2.

ANDAPTATION TO LIFE ON THE ISLANDS FAK
FROM THE MAIN CAND

E6.

FUGHTLESS BIRDS

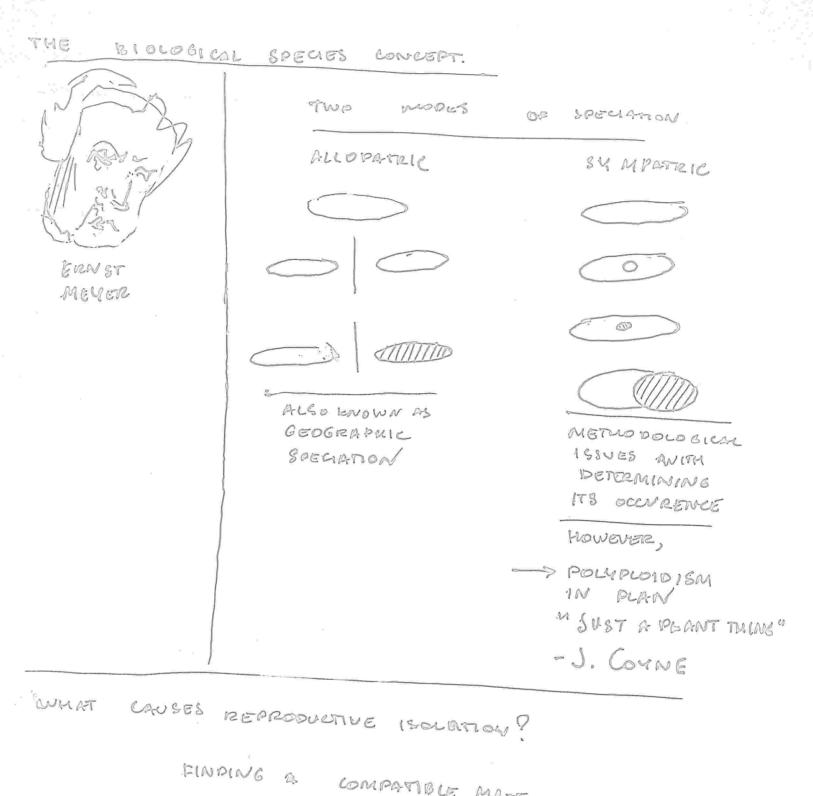
TWO MAIN SPECIES CONCEPTS:

- MORPHOLOGIC PIFFERENCES
- o BIOLOGICAL

BANED ON INTER-FERTILITY (CROSSASILITY) AMONG INDIVIDUALS

CONCEPTS VITEY AMONG DIFFERENT CROUPS OF ERGANISHS

NO WIVEIRSAL GRECIES CONCEPT



FINDING & COMPANDLE MATE

MATING & FERTILIZATION

Dev. OF 2460TE

ADVIT GROWN AND FURNIVAL

PREVENTION OF THE PROPER EUNCHONING OF ZYGOTES

FORFO STERILLTY OR CETURALTY

FR

FRULT FLIES

XXXX XXXX XXXX XXXX XXXX XXXX XXXX

GENETIC PISTOME

THE MORE GENERALLY DIFFERENTIATED

FLITES MRE, THE MORE LIKELY

THE MESPEROJETIVE RAZZETER WOULD PROJE

PREMATING ISOLATION FACTORS

- es GENETIC DIFFERENCE
- · TEMPORAL, BEMAVIOURAL
- " MECHANICAL, PREVENTION OF GAMETE PUSION

MO OPPORTUNITY TO COPULLATE

EXAMPLE

1 RAAGOLETIS POMONELLA

- O TEMPORALLY ISOLATED
- SOME MOVED TO APPLES IN XIX C.

2

MIMUCIS

M. CARD'NALL

THE TWO PARENTAL

RORMS ME INTER-PERTUE

AND PRODUCE FERTILS E.

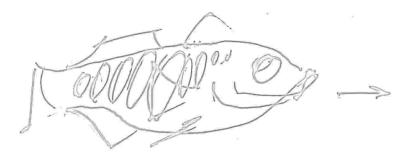
RANELY SEEN DUE
TO ALTITUDINAL PREFERENCES
AND DIFF. IN POLLINATORS

EXTRINGIS POSTEYBOTIC ISOLATION PUE TO
PODRLY ADAPTED MYSRIDS

PHIBRIDS ARE STRONGLY DIRECTED AGAINST

ECOLOGICAL GRECIATION -> SEARCH FOR SPECIATION GENES

3- SPINED STICKLEBECK LOSES A BONY
DEFENSIVE ARMOR AS AN MOMPHATION TO PRESUMATER.



EDA - A KEY GENE
FOR THE
RORMATION
OF HONY
ARMOR

LOSS OF PLATES
INCREASES GROWTH RATES

-> INCREASED WINTER
SURVIVAL





ADADTIVE RADIATION : FEATURES

- 1. RECENT COMMON ANCESTRY
- 2. PHENOMPE ENU. LORRELATION
- 3. TRAIT UTILLTY
- 4. RAPID SPECIATON

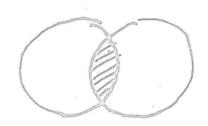
WHY ADARTUE RADIATION?

- O ECOLOGICAL SPRORTYNITY
- O HIGH RATES OF SPECIATION GRAVER CTERIZE THE CLANDE
- DURING THE HIS TORICAL

 TOEPRO IN ANOLES, THE ANCESTRY

 ELORAL NECTURE SPUR IN COLUMBINES

HUBRIDEZA FLON



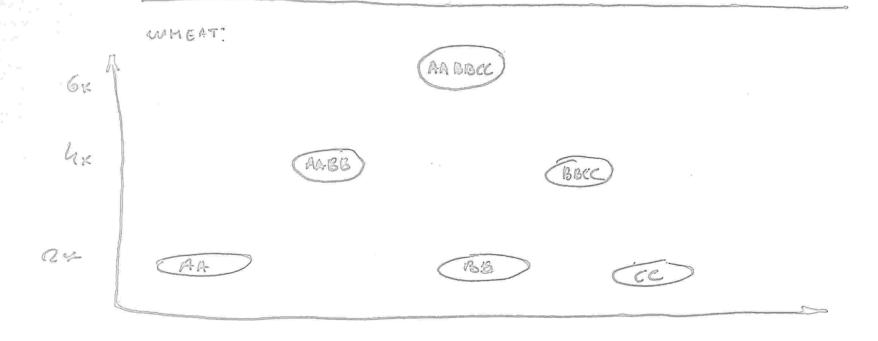
- " RESULTS IN COMPLET BATTERNS OF VARIATION
- · VARIATION CAN NO DE EVOLUTIONARY ELGNIFICANCE, ESP. BY POLYPLOIDY

COMMON IN PLANTS AND FIGH, RARE IN MAMMALS

MORE THAN TWO COMPLETE SETS OF HOMOLOGOUS CHROSOMES

POLYPIOID GNOITIONS RANGE EROM ANTOPOLYPIOIDY (ARAA)

ALLOPOLYPLOIDY DELISES EROM OCCASIONAL
HYBRIDIZATION BETWEEN SPECIES AND IS
THE COMMONEST TYPE OF POLYPLOIDY.



- DOLYPIOIDS REPRODUCTUELY ISOLATED

 -> AN EXAMPLE OF SYMPATRIC SPECIATION
- O DOWNOIDS EXHIBIT NOVEL PHENOTYPES
 ALLOWING EXPLOITATION OF NEW MASITATS
- O HYBRID VIDOUR EVIDENT DUE TO WETEROZY GOIGITY

 FRANCE OF ALL EVOWERING PLANTS ARE POLYBROID