B10120: DIVERSITY REPRODUCTIVE 20160927

HOW CAN THE DIVERSITY OF REPRODUCTIVE SUSTEMS UP BE EXPLAINED?

REPRODUCTIVE
MODES

MODES

SEX VAC

PAKTHEOSENESIS

DIOECTOUS GIERMAPMRODITE

MATTING
848TEM LEOSS-FERTILIZATION

SERF-FERTILIZATION

DAPHIA

JEXVAL

WHENES

THENES

COLO

WATER

WATER

MANY DERENVIAL PLANTS REPRODUCE THIRDUGH BOTH SERVAL AND CLONAL REPRODUCTION

PROXIMATE CUES FOR CHANGE IN
THE MODE OF PROPORTION.

-> DIFFERENT DROM NLTIMATE MECHANISMS

COINS OF PER:

- · TIME AND GIVERBY TO FIND AND BITTLEHET MIGHTES
- " IN CREWED ENERGENC LOSTS
- o Ribe of preparion & infection
- & COST OF PRODUCTIVE MALES
- = 50% LESS GENETIC TRANSMISSION
- COMBLMATIONS

BUT HERE IS THE PARKATOON OF SENETHY?

SHICHE OTTO PANEIL AGRAWAL GRANAM BELL

THE TWO-EOLD COST OF MEIGIS:

TRANSMISSION BIAS - PAVOVE FOR ASEXVALITY

A STEKNAL FEMALE CONTRIBUTES LIVLY 50%

OF MER GENES.

ALPOTILESES FORTHEROVANTAGES OF SEX

- MUTATIONS LONG TERM BENEFIT
- " LOTTERY MODEL "
 LOTTERY MODEL "
 - ENVIRON MENTS

MTANGLED BANK HUPOTLESICA

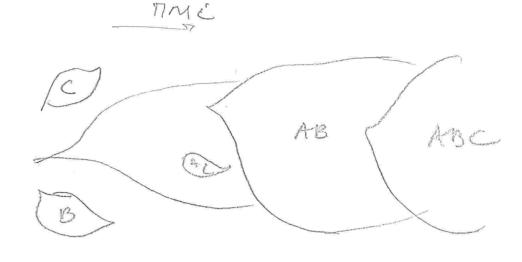
ENVIRONMENTS

THEES EVIEWINE
THE PEST
PRESSURE?

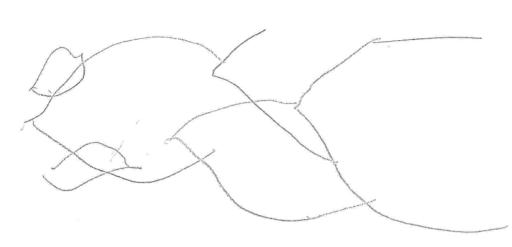
RED OVEEN PHI BOTHESIS

NUMEROUS TREORETICAL MODELS BUT A PAVELTY OF EXPERIMENTAL ERUDURABLE COMBINATIONS OF MUTATIONS BROUGHT TOGETHER MOREE READIDLY BY GEN

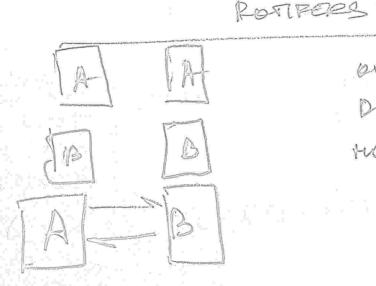
ASEKUAL



SERVAL



THEORY PRESIDENTS SPATIAL MOTEROGENEURY
IN SELECTION CAN FACILITATE THE
EVOLUTION OF SEX BUT VINTIL-RECENTLY - NO PATA

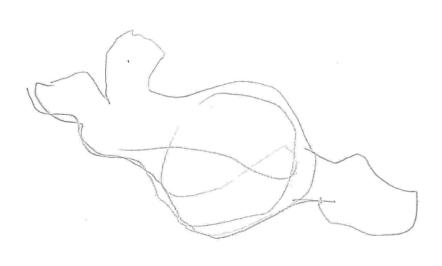


DECTINED KARIOLY NO HOMOGENEOUS ENVIRONMENTS

- BUT RARE IN VERTEBRATES.
- THE TIPS DE PHILOGENESIS

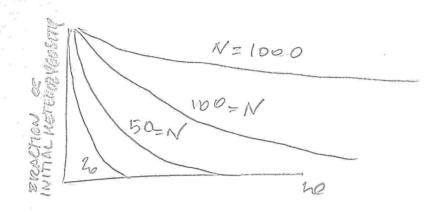
MUSTERY OF BOE LLOID ROTTFIELD NO SEX FOR MILLIANS OF YEARS

DIVERSIFICATION HAS LED TO >300 SPECIES.



| MATINE PATTERN | |
|---------------------|--|
| OVTBREEDINGS | MATES LESS CLOSERY KELATED THAN RA-WIDDM |
| INBREEDINGS | MATES MORE CLERRY RELATED MANY RAMPON |
| LAMBREEDING | QUENCER DE |
| | RESULTATE PLANES |
| | EDUCES SOB RE |
| > INBREZO | NG DERRETHAN |
| population 1 Asab | WALL |
| S FS FS FG | Language Marie Comment of the Commen |
| EF FF FF | - WBREEDING |

RATES DEDENRING ON MATING PATTERNS



NBREEDING DEPRESSION

O RETWENTON OF EITNESS:

- VIABBLITY

O STRONG DEPORTING WILL FAVOUR

· DARWIN'S FAGRUNATON WITH WENNEDING & ONTERSEDING IN PLANTS

-> PERSONAL MYERS

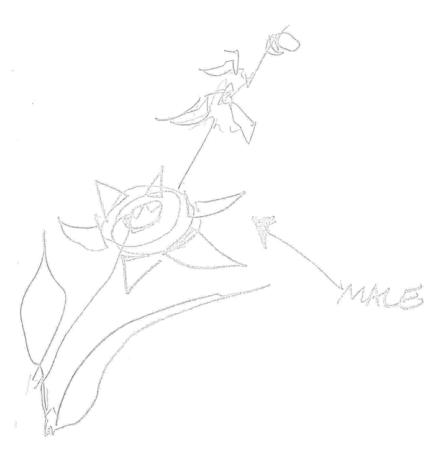
THE CONTINUOUS EXPERIMENT DIRING

--> COOLUED AT 53 STAILES
AND COUDUCTED SELFS AND

PAT LOW BO PLANTS GOD MERSSON, ?

MECHANISM OF SELF-INCOMPATIBILITY

FEMARE



DIOECK DNLY DEWNS IN 7% OF GOWERING PLANS

SERVAL DIMORHISM

SELFING IS FAVOURED IN ISLAND
COLONISATIONS WHERE NO IPCSMALL NUMBER OF POLLINGTORS RESIDE.