

Reproduction in the green algae-CHLOROPHYCEAE

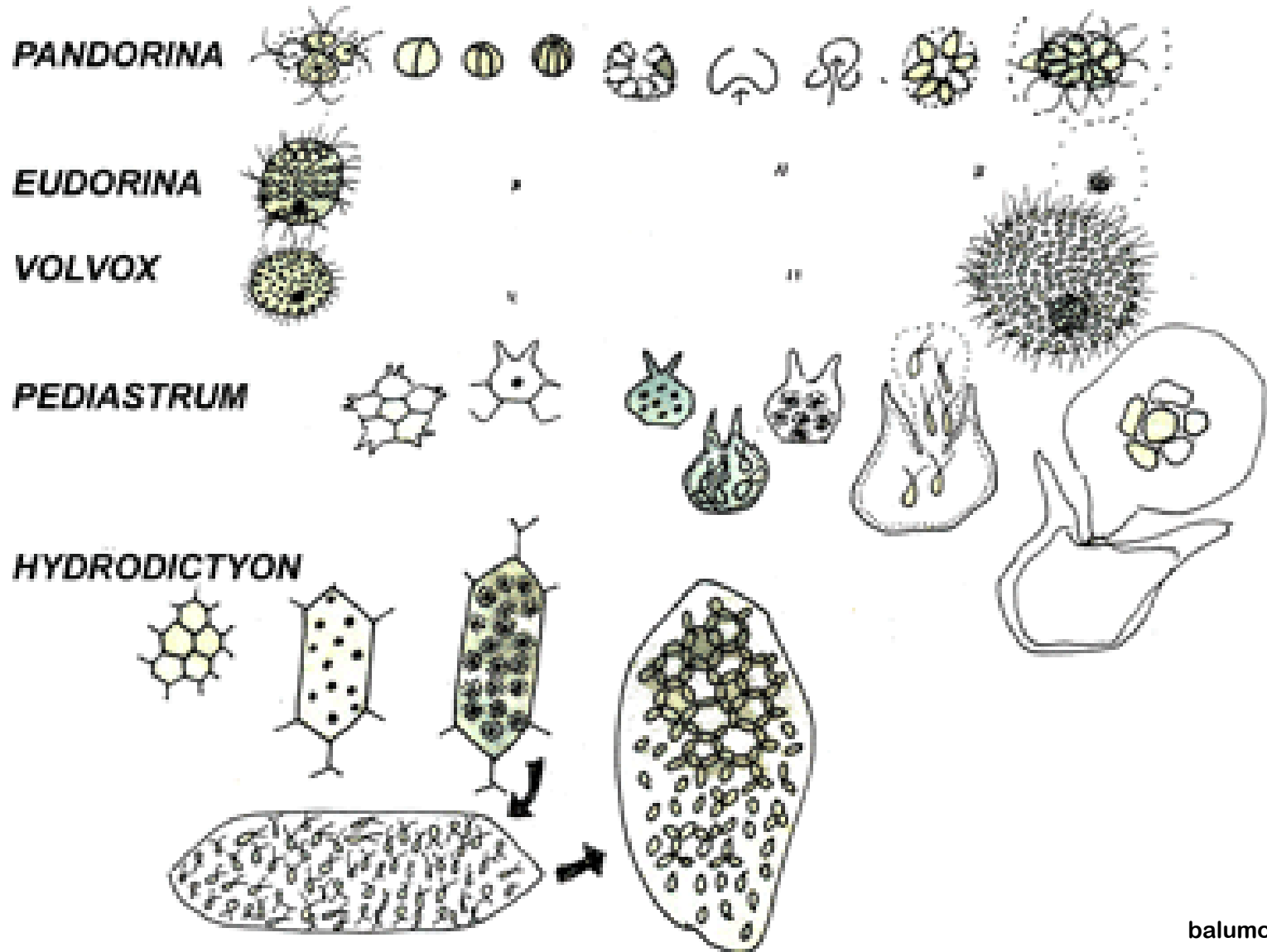
balumcc@zoho.com

**CHLOROPHYCEAE:
VEGETATIVE REPRODUCTION**

**BINARY CELL DIVISION:
TETRASPORALES
COCCOID ZYGNEMATALES**

**FRAGMENTATION:
ULOTRICHALES
OEDOGONIALES
CHAETOPHORALES
ULVALES
CAULERPA, BRYOPSIDALES
ZYGNEMATALES**

CHLOROPHYCEAE-VEGETATIVE REPRODUCTION AUTOCOLONY FORMATION



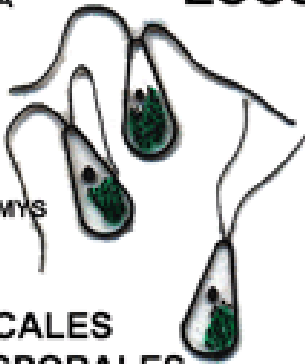
CHLOROPHYCEAE-ASEXUAL REPRODUCTION

ZOOSPORES

T.CYLINDRICA

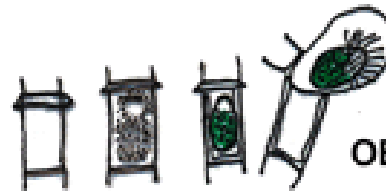
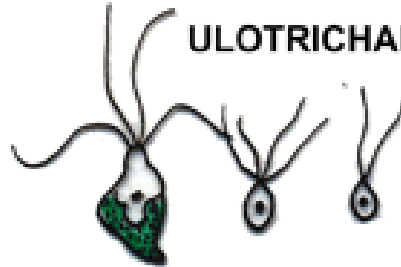


SCHIZOCHLAMYS



VOLVOCALES
TETRASPORALES
CHLOROCOCCALES

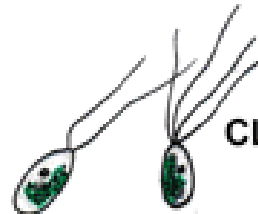
ULOTRICHALES



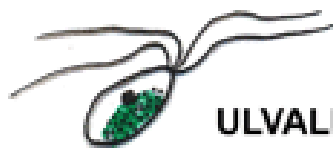
OEDOGONIALES



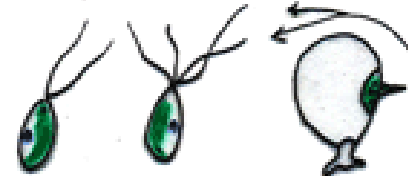
CHAETOPHORALES



CLADOPHORALES



ULVALES



SIPHONOCLADALES



COLEOCHAETALES

NO ZOOSPORES:

BRYOPSIDALES

ZYGNEMATALES

(S.FARLOWII-PARTH)

DASYCLADALES (CYSTS)

ASEXUAL REPRODUCTION-CHLOROPHYCEAE

APLANOSPORE: VOLVOCALES

TETRASPORALES

ULOTRICHALES

COLEOCHAETALES

PALMELLOID STAGE: VOLVOCALES

ULOTRICHALES

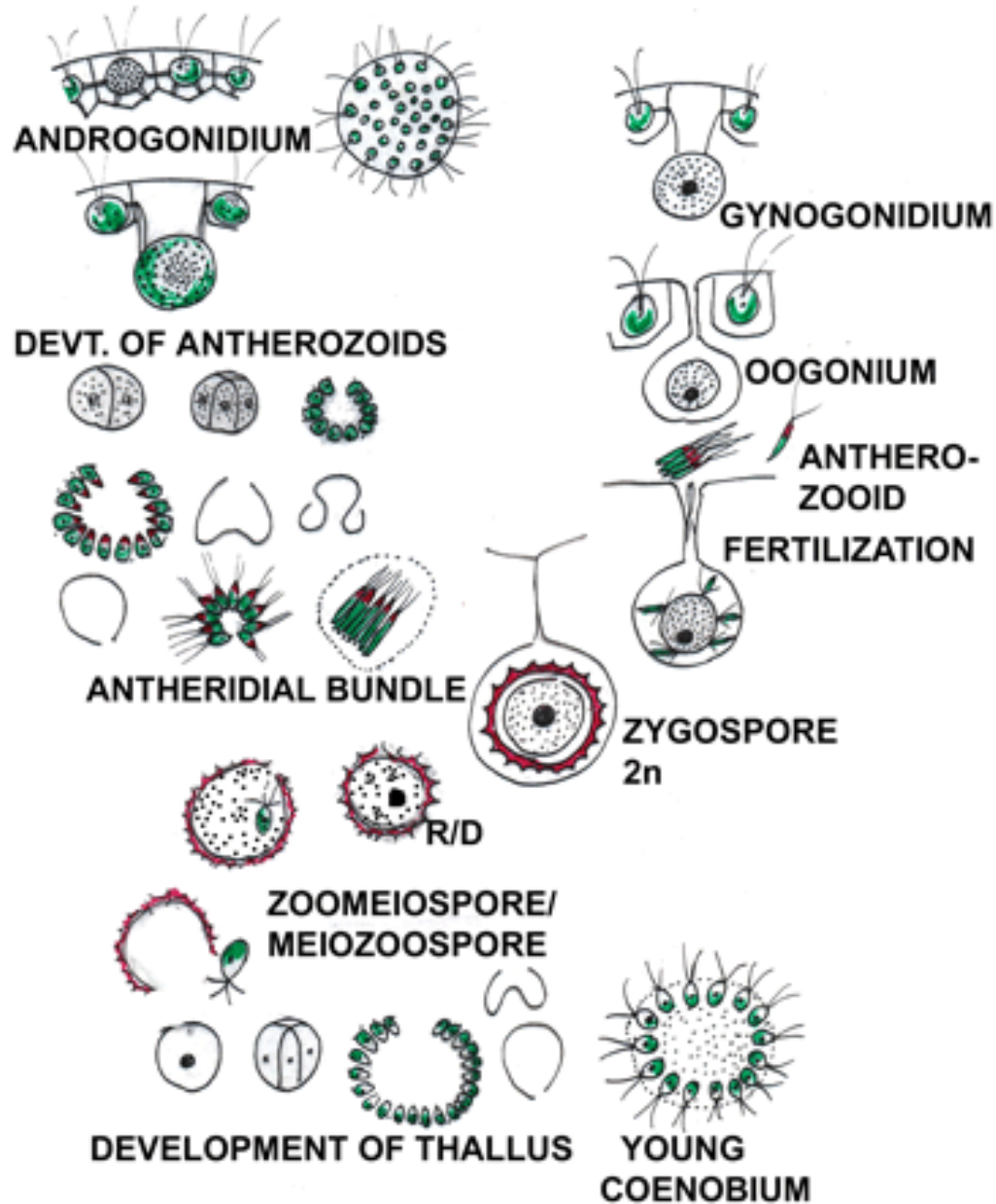
HYPNOSPORE: TETRASPORALES

AUTOSPORE: CHLORELLA

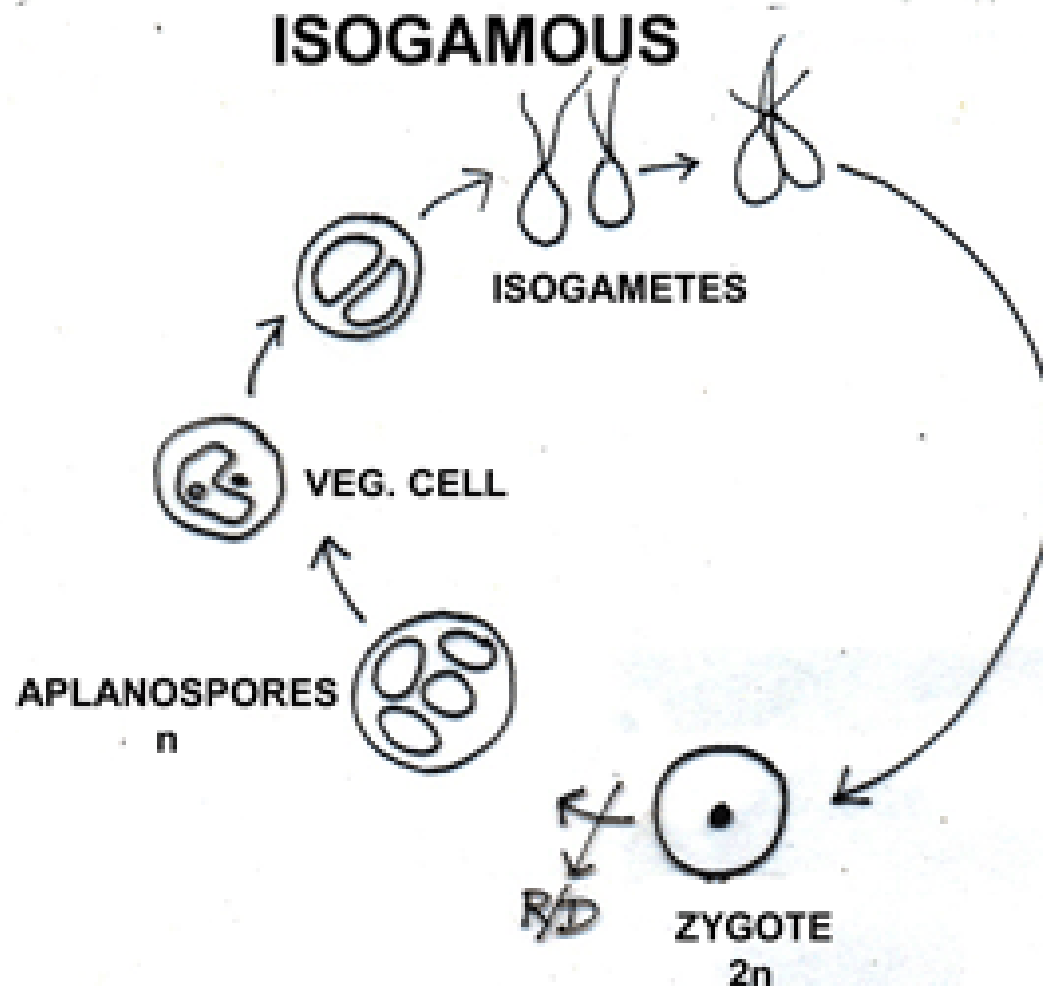
(CHLOROCOCCALES)

AKINETES: ULOTRICHALES (U.IDOSPORA)

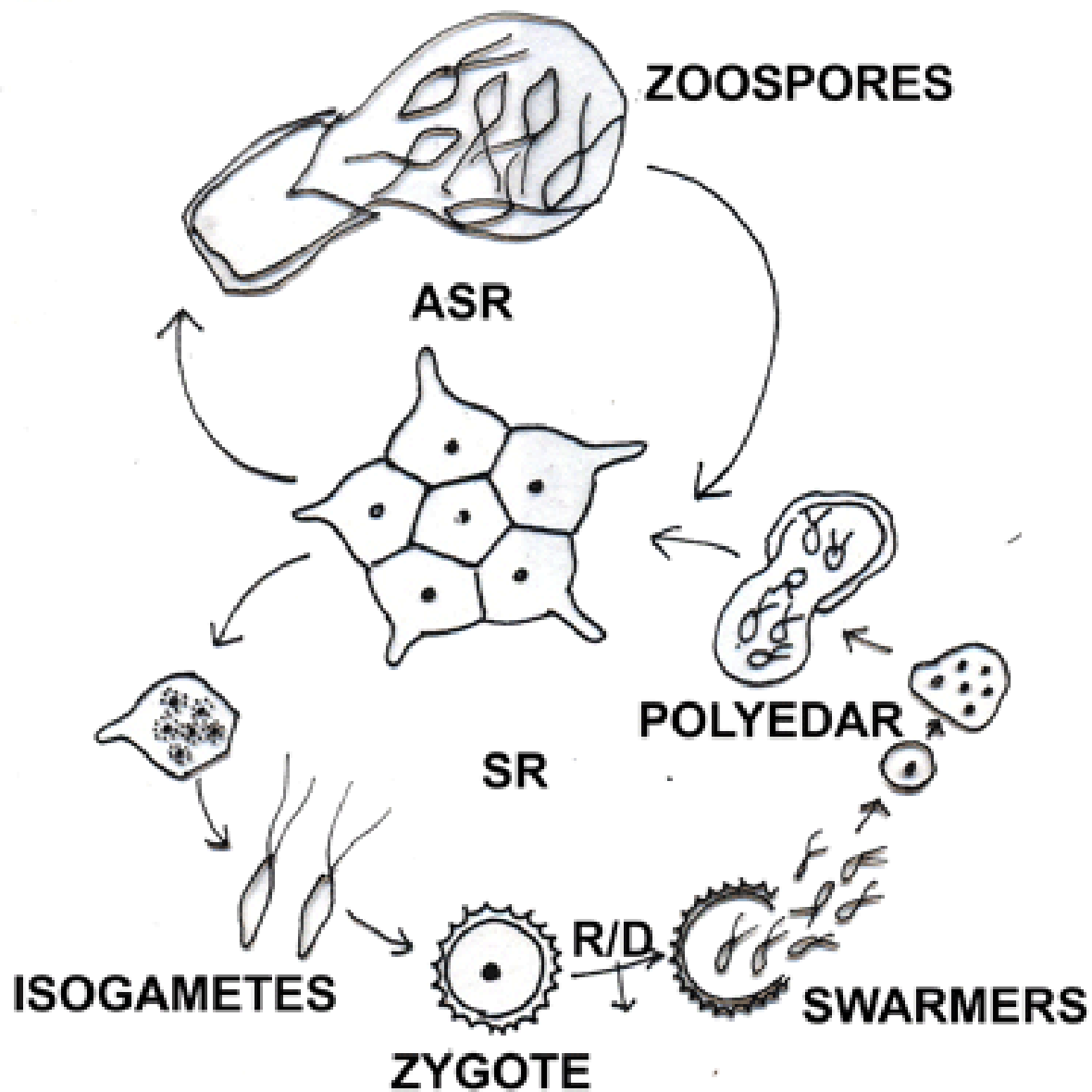
HAPLONTIC/ZYGOTIC LIFE CYCLE IN VOLVOX



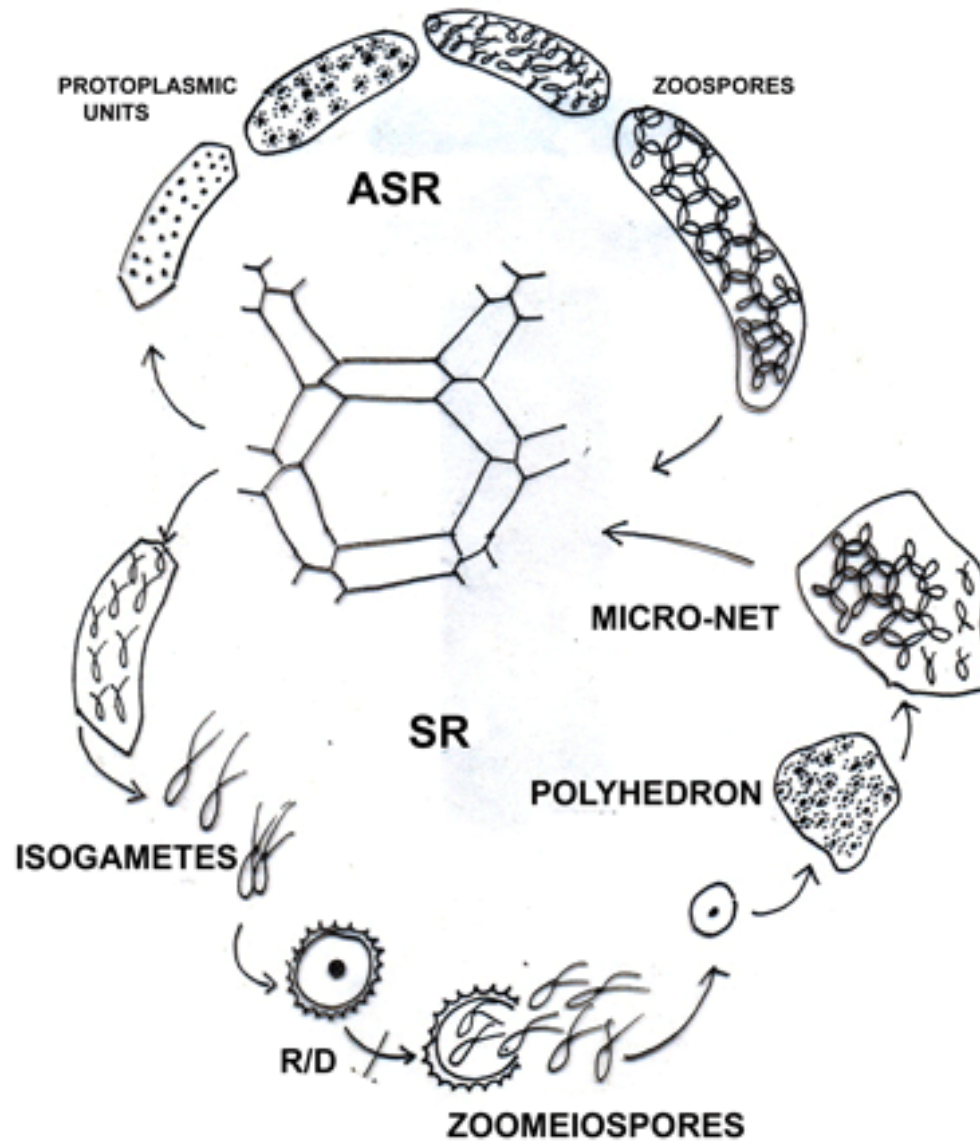
HAPLONTIC/ZYGOTIC LIFE CYCLE IN TETRASPORA (TETRASPORALES)



HAPLONTIC/ZYGOTIC LIFE CYCLE IN PEDIASTRUM (CHLOROCOCCALES)

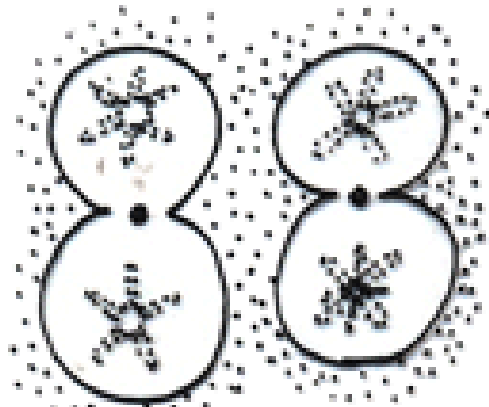


HAPLONTIC/ZYGOTIC LIFE CYCLE IN HYDRODICTYON (CHLOROCOCCALES)

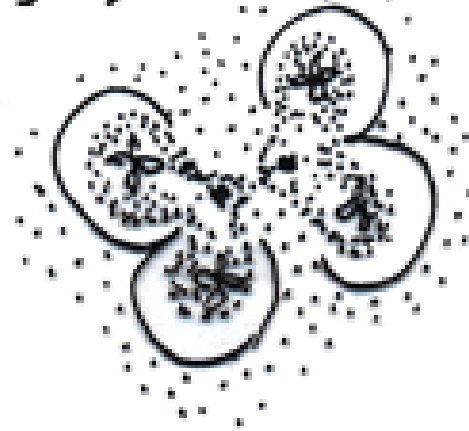


HAPLONTIC/ZYGOTIC LIFE CYCLE IN ZYGNEMATALES-DSESMIDINEAE *COSMARIUM*

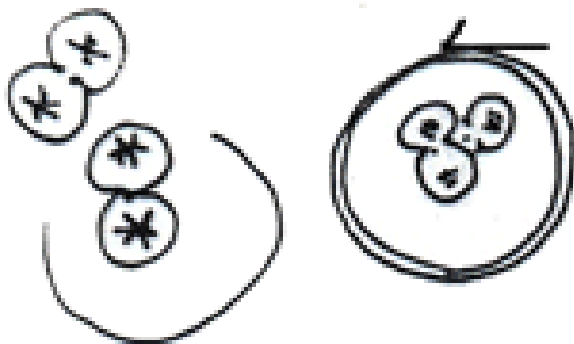
CONJUGATING CELLS



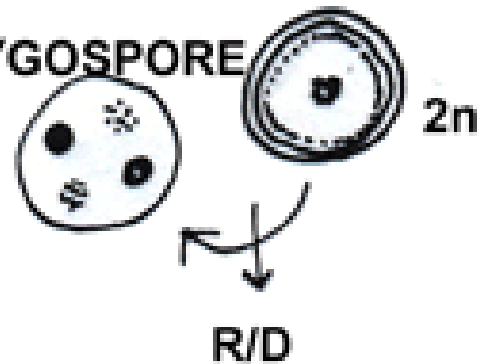
CONJUGATION



YOUNG CELLS

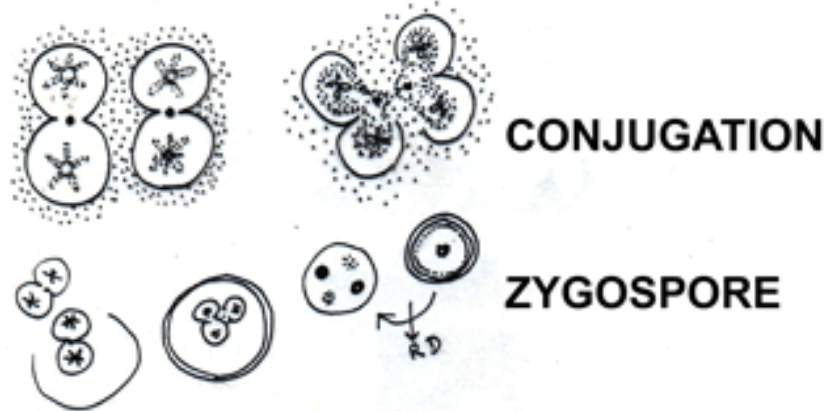


ZYGOSPORE

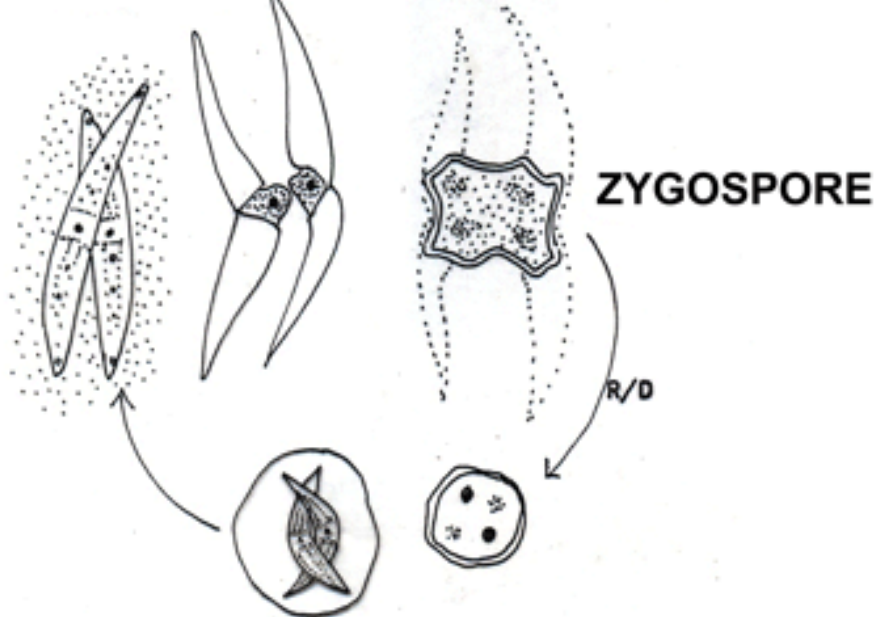


HAPLONTIC OR ZYGOTIC LIFE-CYCLE IN DESMIDS (DESMIDIINIAE)

COSMARIUM

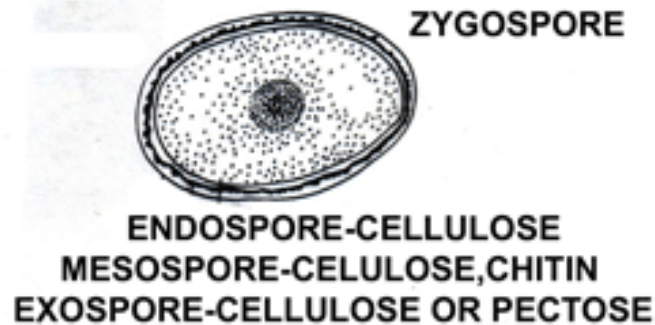
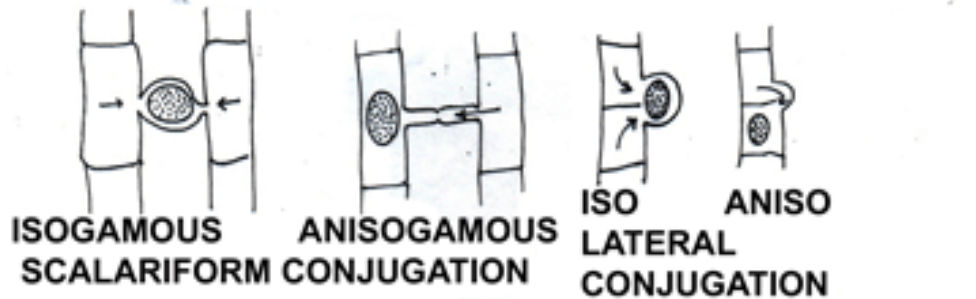


CLOSTERIUM



**HAPLONTIC/ZYGOTIC LIFE CYCLE IN
ZYGNEMATINAE**

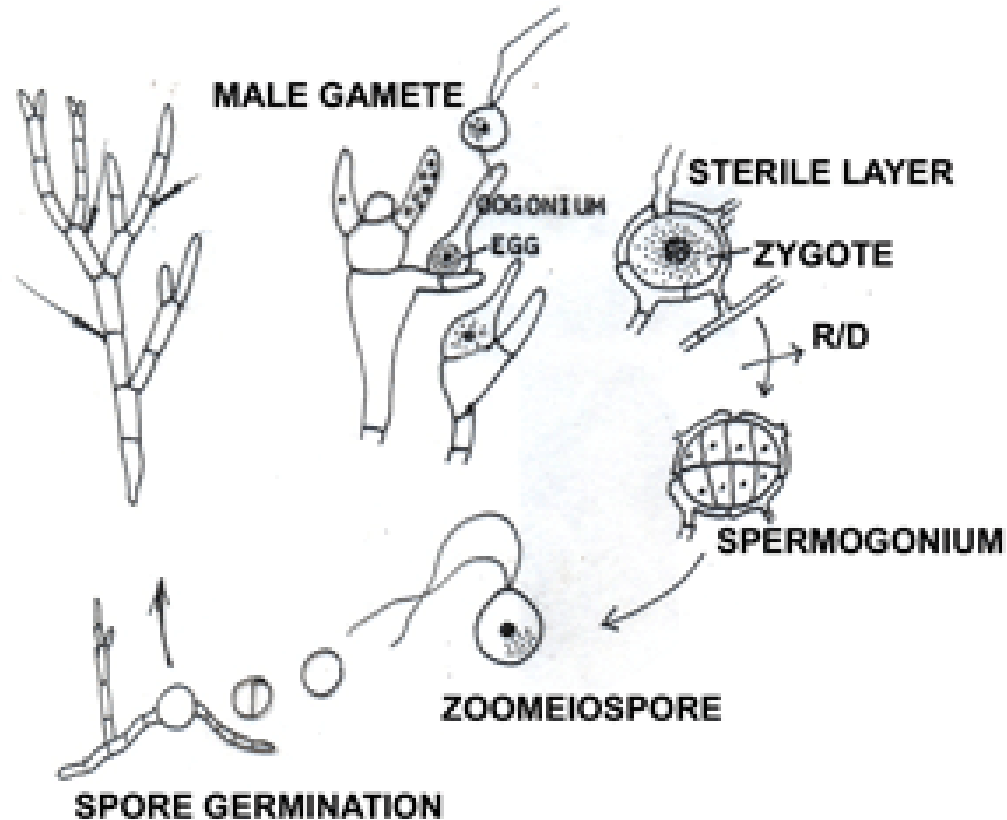
SPIROGYRA: LATERAL CONJUGATION-SPIROGYRA JOGENSIS
APLANOSPORE -SPIROGYRA KARNALAE
AZYGOSPORE -SPIROGYRA VARIANS
ZYGNEMA- SCALARIFORM CONJUGATION-Z. PECTINATUM
LATERAL CONJUGATION - Z.TERRESTRIS
AKINITES - Z. STERILE



**PURPLE COLUR OF ZYGNEMA IS DUE
TO PHYCOPORPHYRIN**

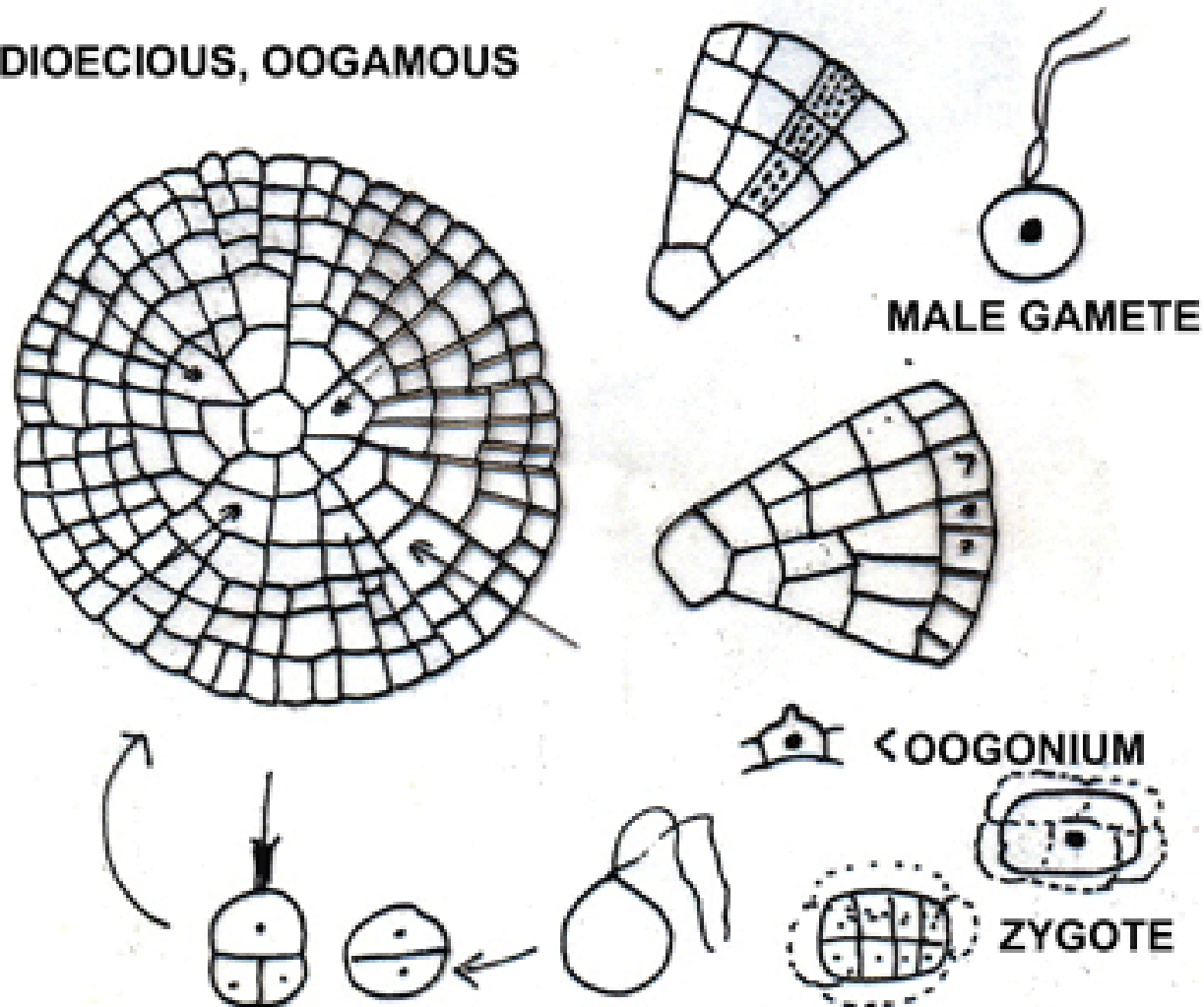
HAPLONTIC/ZYGOTIC LIFE CYCLE IN COLEOCHAETALES COLEOCHAETE PULVINATA

MONOECIOUS, OOGAMOUS
SEXUAL REPRODUCTION

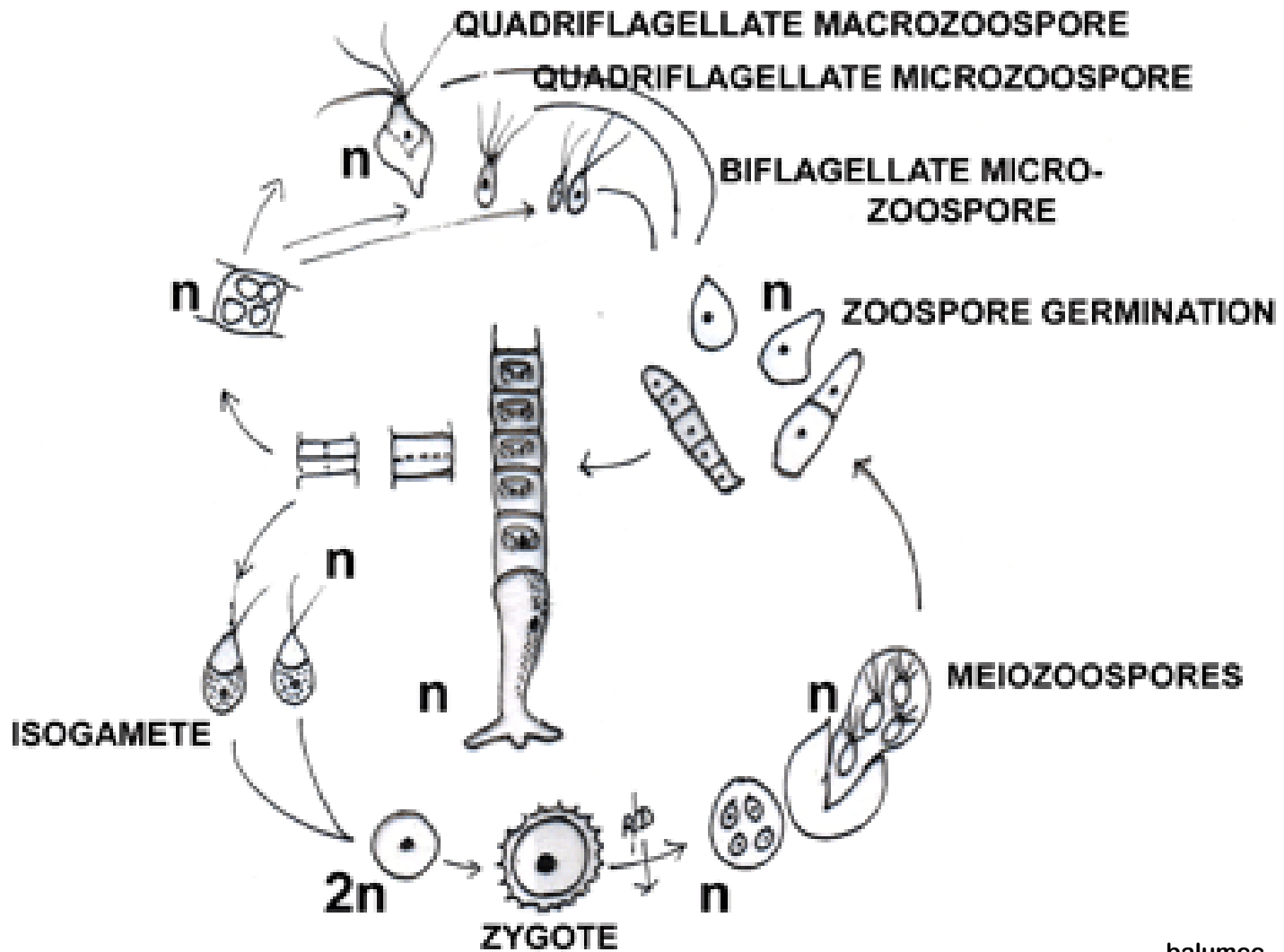


HAPLONTIC/ZYGOTIC LIFE CYCLE IN COLEOCHAETE SCUTATA (COLEOCHAETALES)

DIOECIOUS, OOGAMOUS

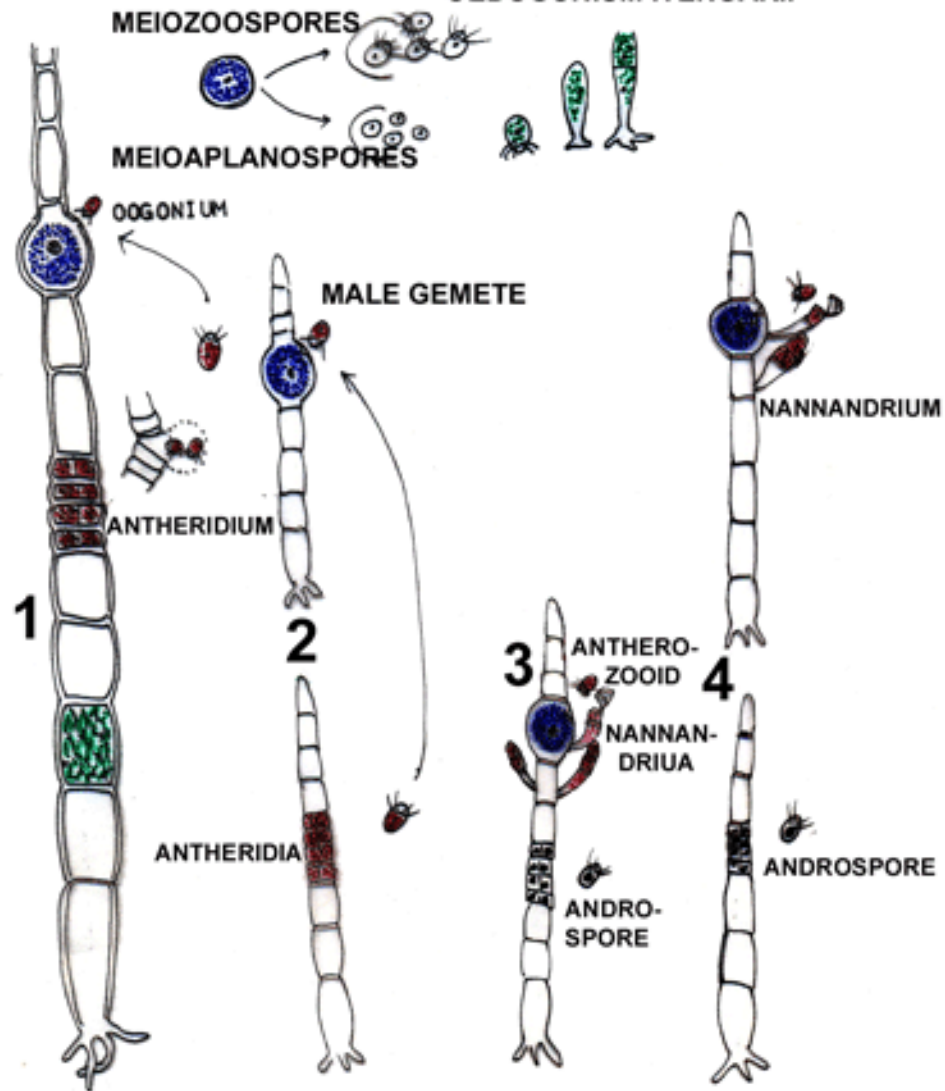


HAPLONTIC OR ZYGOTIC LIFE CYCLE - ULOTRICHALES-ULOTHRIX

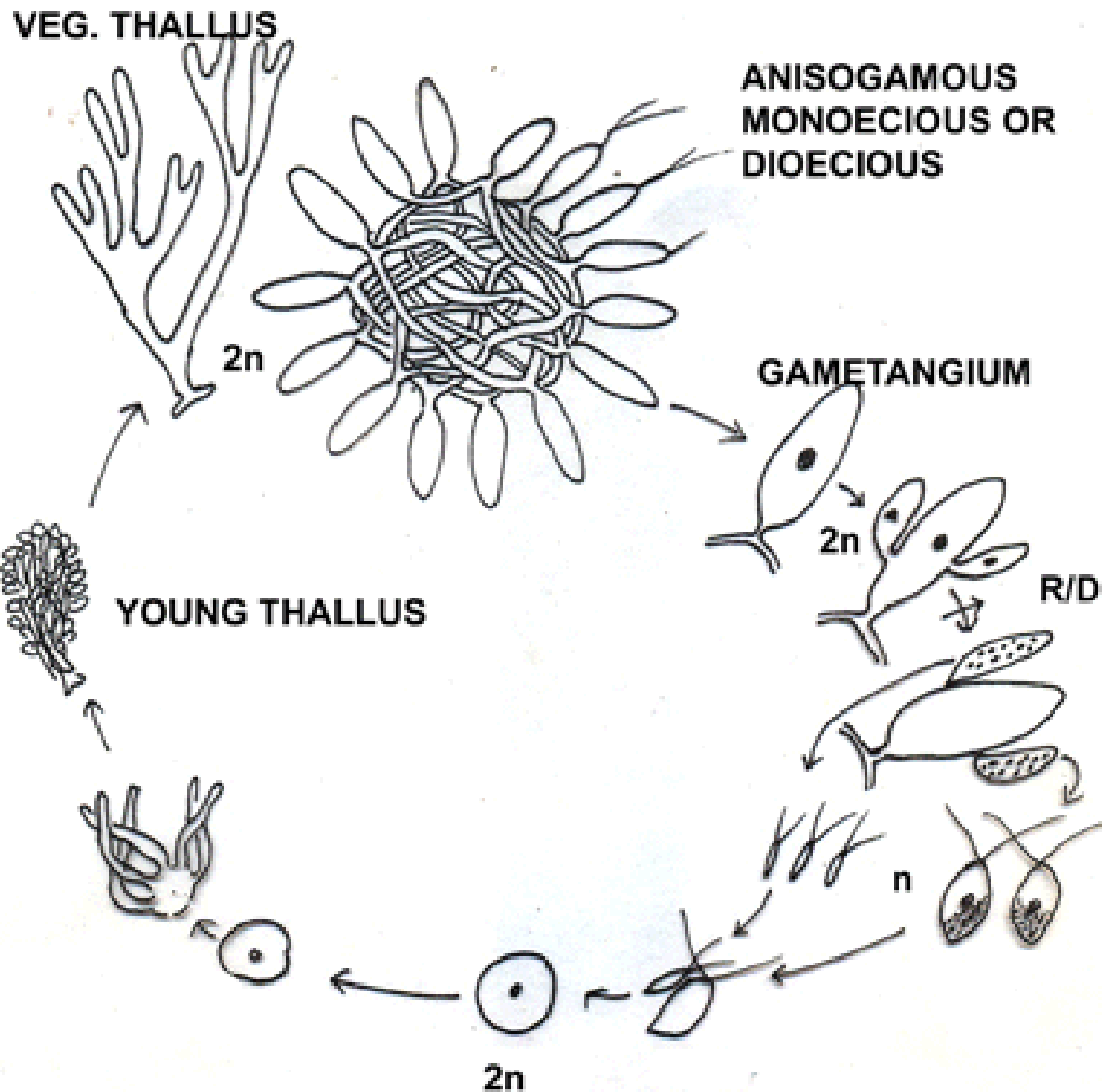


HAPLONTIC/ZYGOTIC LIFECYCLE OEDOGONIUM

1. MACRANDROUS MONOECIOUS-OEDOGONIUM FRAGILE
2. MACRANDROUS DIOECIOUS-OEDOGONIUM GRACILIS
3. NANNANDROUS GYNANDROSPORUS-OEDO.CONCATENATUM
4. NANNANDROSPORUS-IDIANDROSPORUS
-OEDOGONIUM IYENGARII

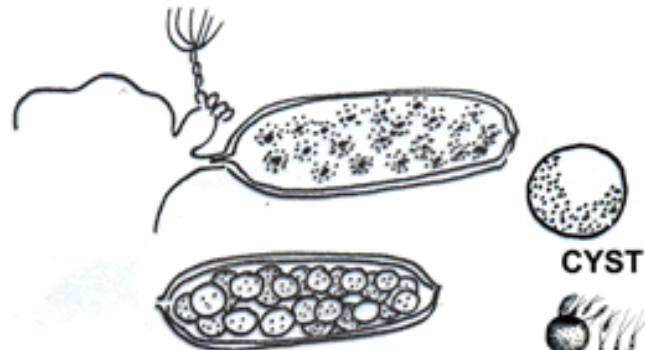


DIPLONTIC/GAMETIC LIFE CYCLE IN CODIUM



DIPLONTIC/GAMETIC LIFE CYCLE IN DASYCLADALES-ACETABULARIA

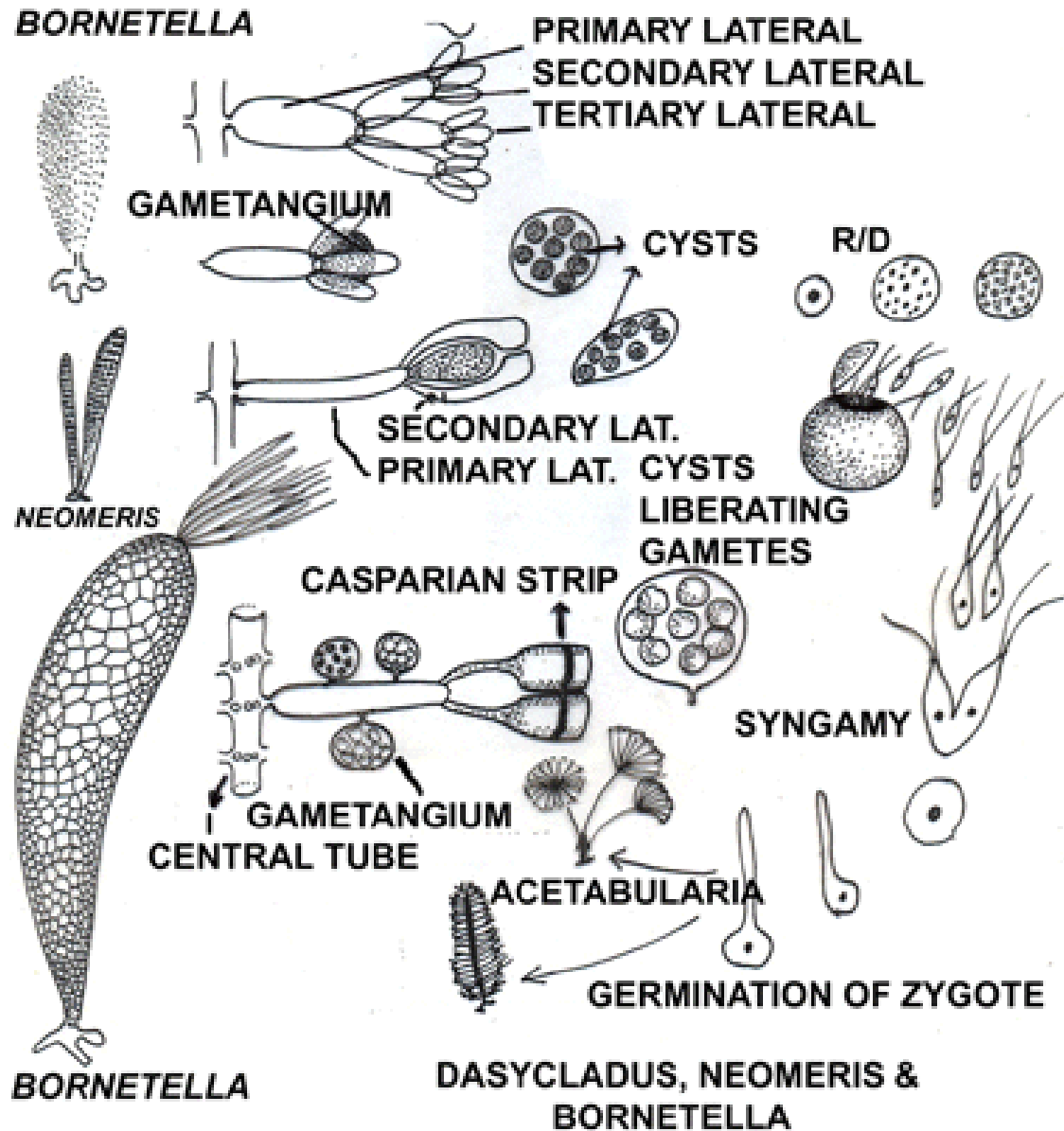
SPOROPHYTE



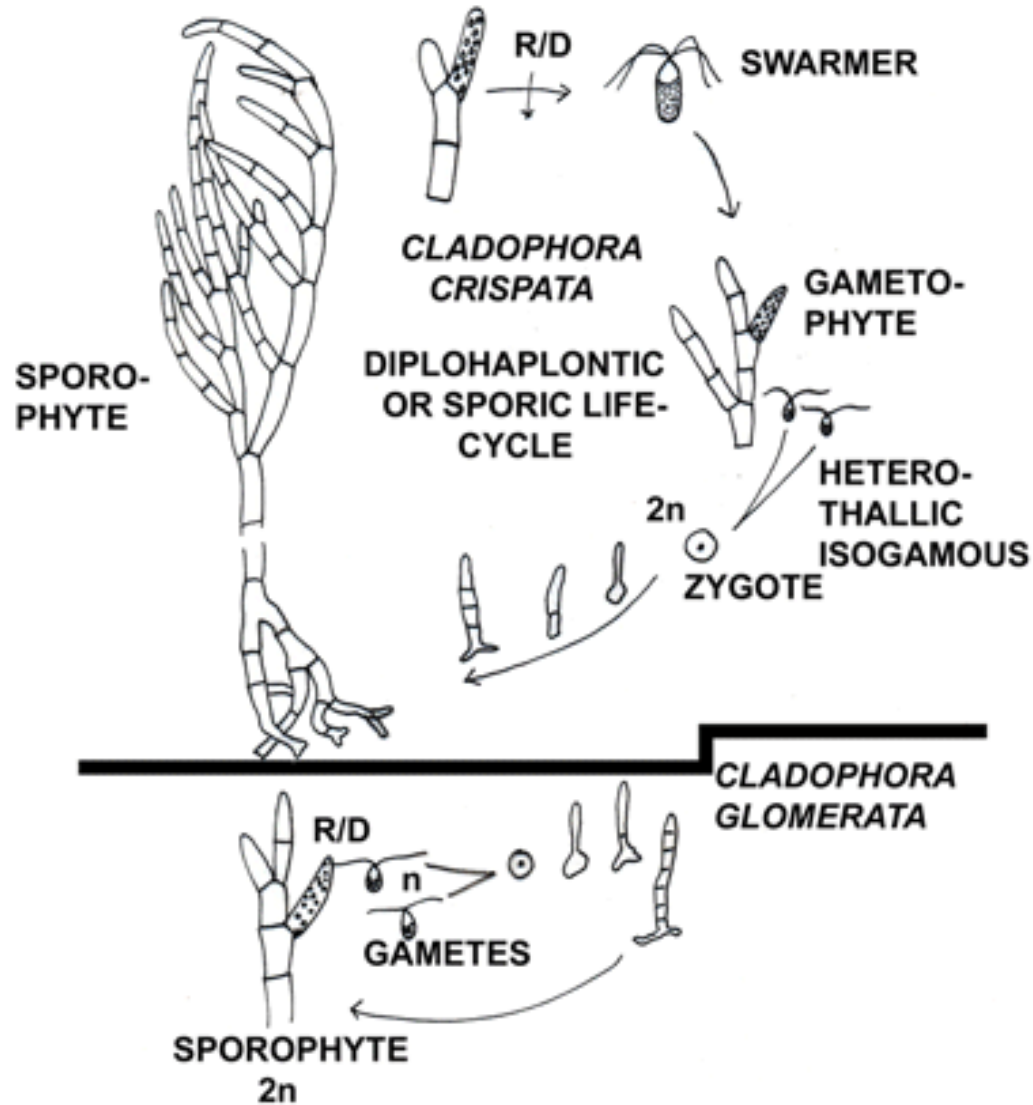
GAMETANGIUM WITH CYSTS



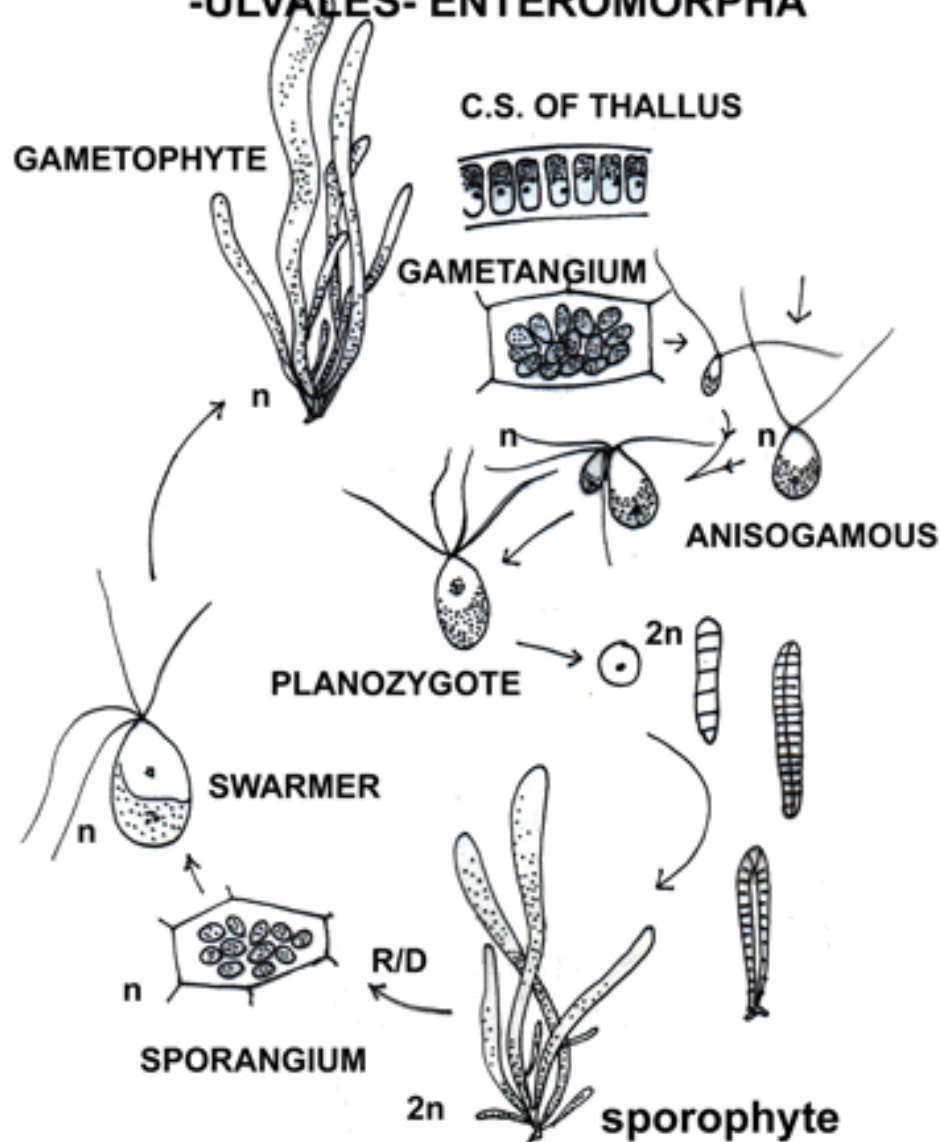
DIPLONTIC/GAMETIC LIFE CYCLE IN DASYCLADALES



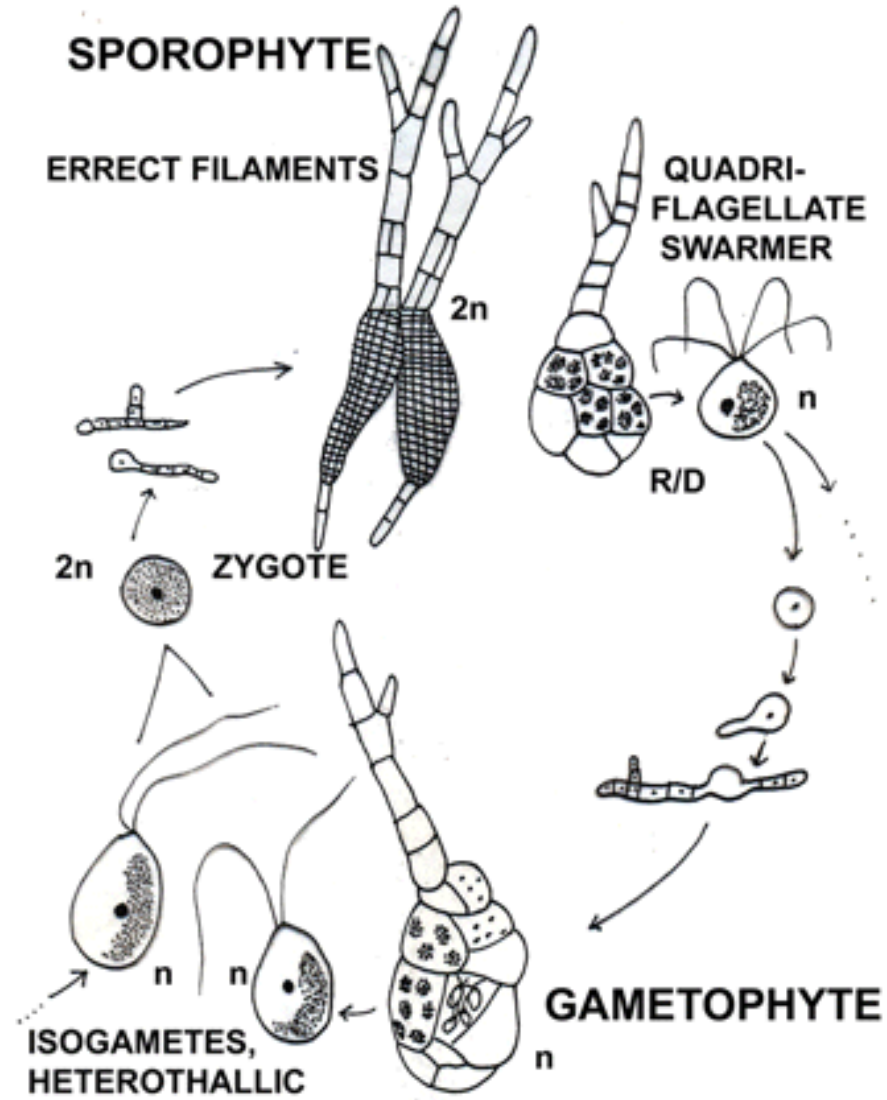
SEXUAL REPRODUCTION AND LIFE CYCLE IN CLADOPHORALES- CLADOPHORA



DIPLOHAPLONTIC/SPORIC LIFE CYCLE -ULVALES- ENTEROMORPHA

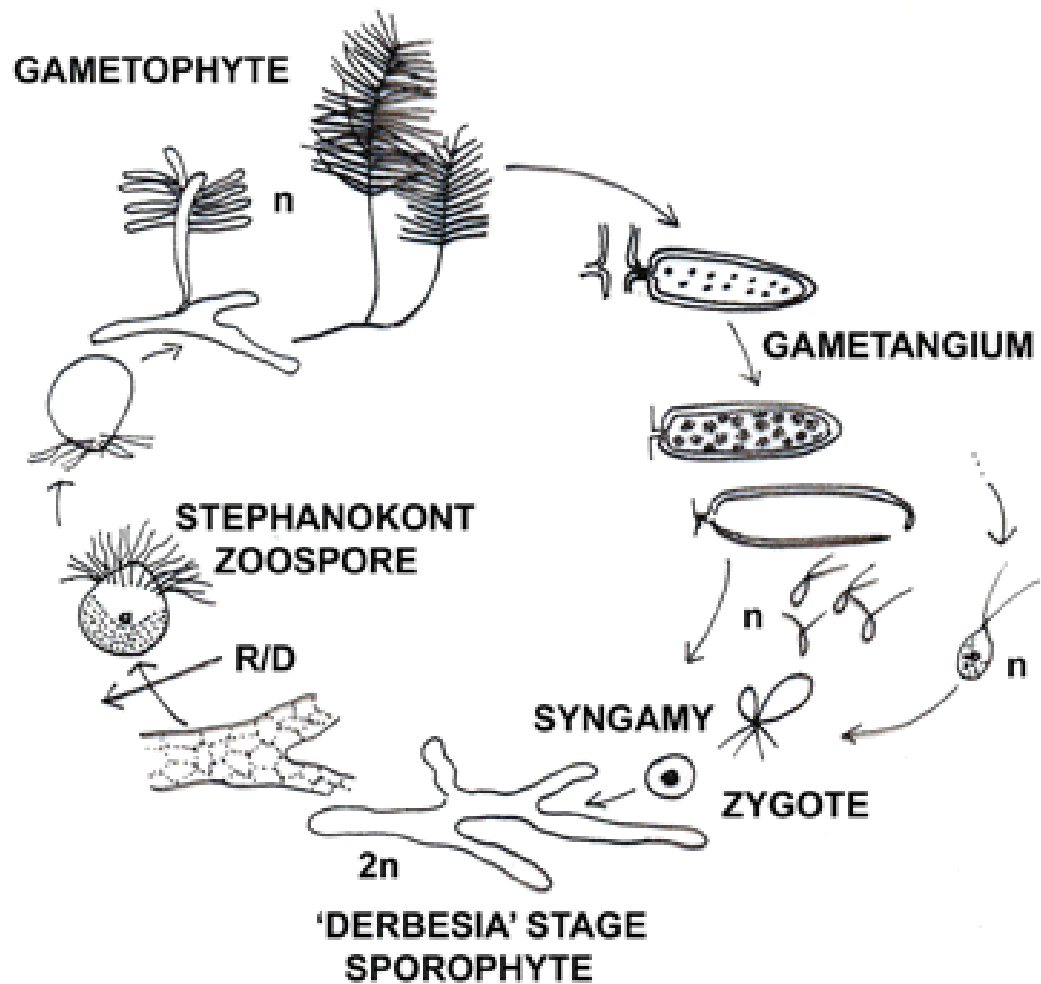


DIPLOHAPLONTIC/SPORIC LIFE CYCLE IN CHAETOPHORALES-FRITSCHIELLA



DIPLOHAPLONTIC/SPORIC LIFE CYCLE IN BRYOPSIDALES- *BRYOPSIS*

NO ASEXUAL REPRODUCTION BY
ZOOSPORES



End of reproduction and life-cycles in green algae

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