

## B GIMNOSPERMAS (GRUPO)

FIL05

Coniferophyta ou Pirrophyta

Cycadephyton

Gnetophyta

Ginkapphyta

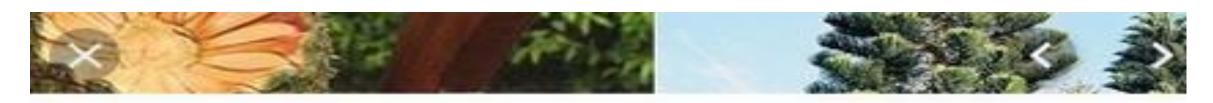
EXEMPLOS

Pinus, Anaucaria, Ciprestes, Sequéias,...

Cycas e Zancia.

Ephedra, Gnetum,

Ginkago



## Exemplo de Gimnospermas



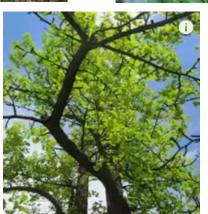
## Araucaria angustifolia (Araucaria)











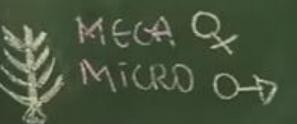
- B GIMNOSPERMAS (GRUPO) 4 VASCULAR (TRAQUEÓFITA); LA POSSUI TUBO POLÍNICO (SITONÓGAMA); HIDROINDERENDENTE; LY FANEROGAMA -> ESTRÓBILO (SEM ATRATIVOS); 4) ESPERMATIOFITA -> SEMENTE (ÓVULO). 4 SEM FRUTO -> SEM OVÁRIO. L) HABITAT -> FRIO E TEMPERADO. (BRASIL MATA DE PRAUCARIA) EX.: (ONIFERAS -) Anaucoria angustifelia

## 1 GIMNOSPERMAS

Exi: Anaucaria.

\* Esporófito (2h) Li duradoura. Li ASSEXUADA





ESTROBILO

\* GAMETÓFITO (n)

& PASSAGEIRA.

& SEXUADA.

· MASWLIND

>> JOVEM (GRÃO-DE-POLEN)

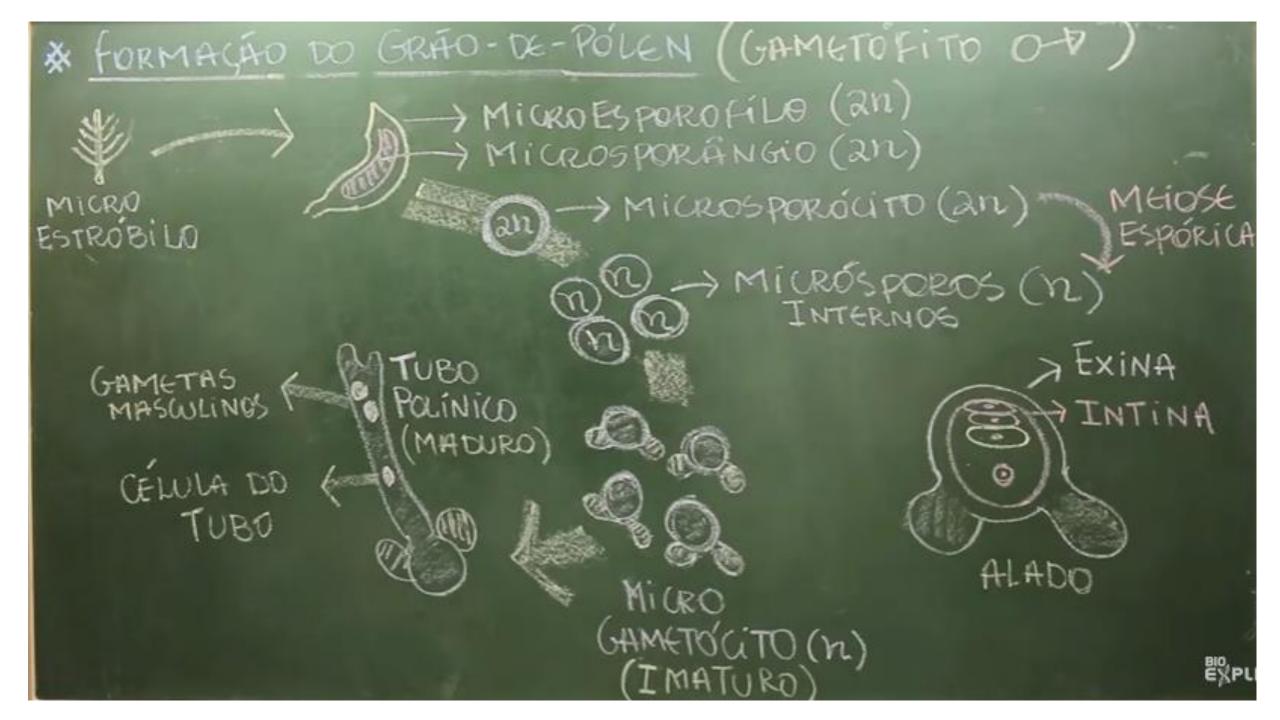
> ADULTO (TUBO POLÍNICO)

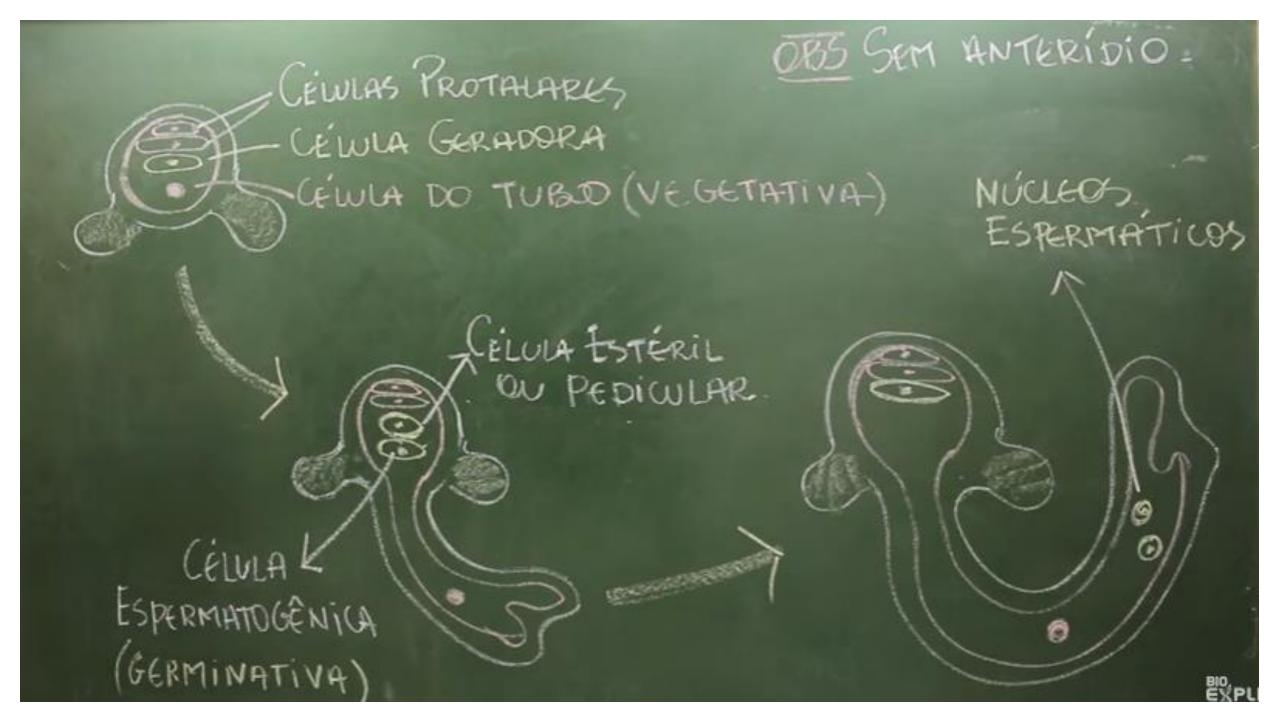
· FEMININO >> SALO EMBRIONARIO.

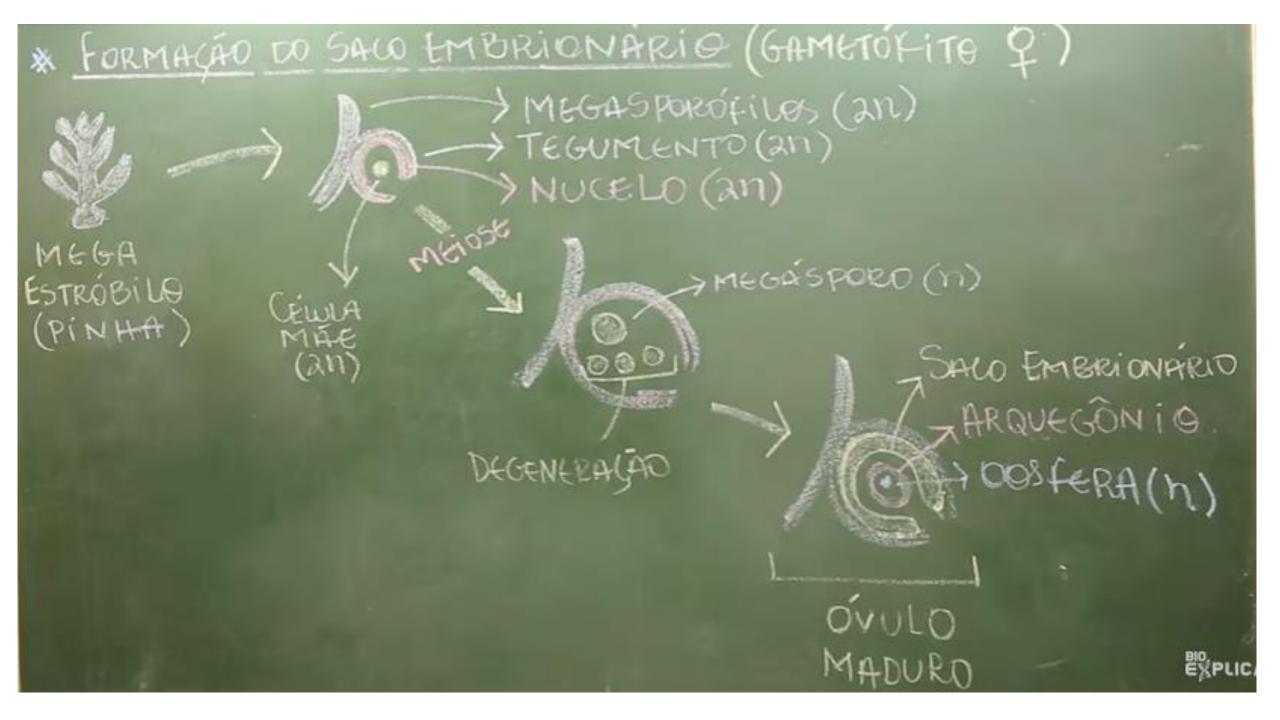


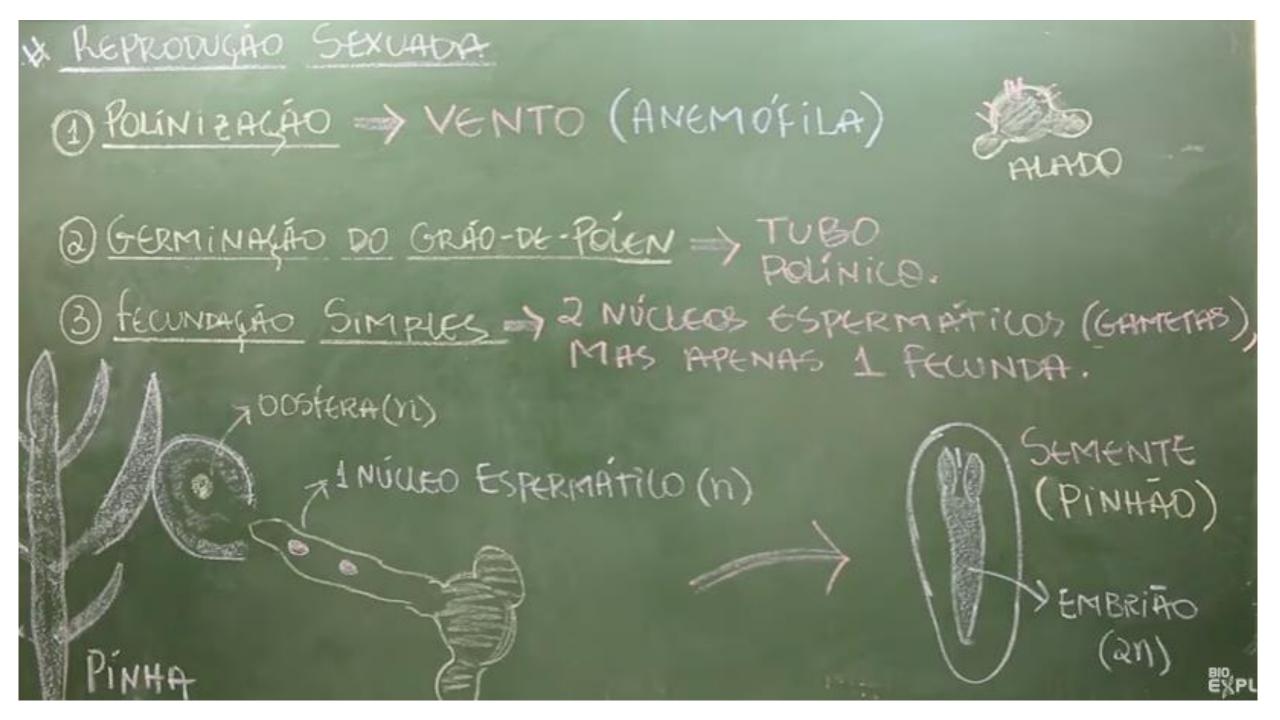




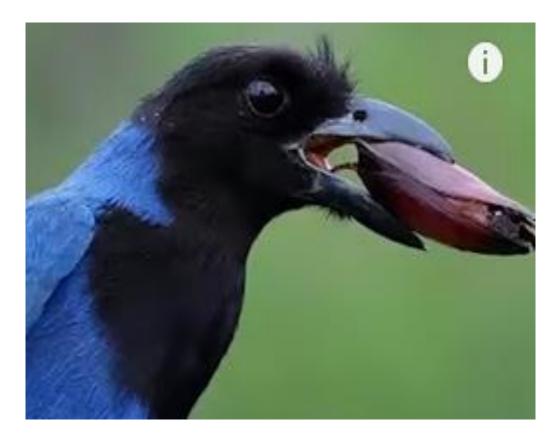












Pinhão Gralha azul