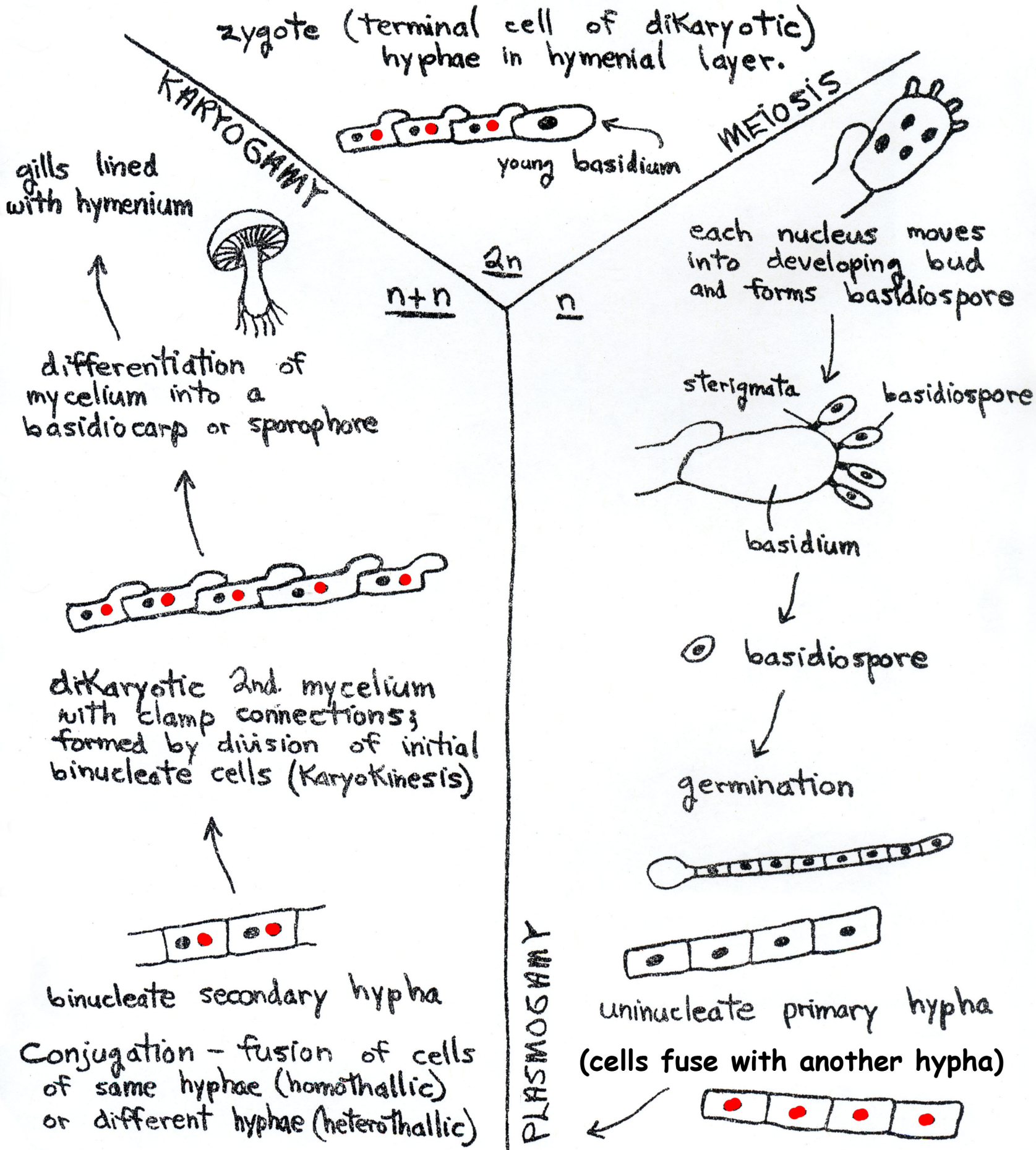


Gill Fungus Life Cycle: Class Basidiomycetes

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zygote (terminal cell of dikaryotic) hyphae in hymenial layer.

KARYOGAMY

MEIOSIS

gills lined with hymenium

young basidium

each nucleus moves into developing bud and forms basidiospore

$2n$
 $n+n$ n

differentiation of mycelium into a basidiocarp or sporophore

sterigmata basidiospore

basidium

basidiospore

germination

dikaryotic 2nd. mycelium with clamp connections; formed by division of initial binucleate cells (Karyokinesis)

binucleate secondary hypha

uninucleate primary hypha

(cells fuse with another hypha)

Conjugation - fusion of cells of same hyphae (homothallic) or different hyphae (heterothallic)

PLASMOGAMY