

Aseptate Opportunists - Zygomycetes

		Reproduction		Asexual conidia	Sexual spores	Growth	Macro	Micro
Zygomycetes		free cell formation		sporangiospores	zygospores	rapid	"lid lifters", cottony/wooly	aseptate, broad, ribbon-like hyphae
	Terminal Vesicle?	Macroscopic	Sporangiospores	Sporangiophores	Sporangia	Rhizoids	Columella	
Absidia	no	wooly gray		branching, between rhizoids	black pear shaped	on stolon	supports sporangium	
Apophysomyces	no	white/cream to yellow w/age	oblong	unbranching w/foot cells	pyriform filled with spores	beside foot cell	funnel shaped (swollen)	thermo tolerant grows up to 42C; poor sporulation in vitro
Mucor	no	white, fluffy mycelium; gray to brown w/age		single or branching	round; empty	NONE	supports sporangium; bare	
Rhizopus	no	white, dense, cottony aerial hyphae at RT; dotted with brown or black sporangia		unbranched	black, round; filled or empty	opposite sporangiophores; stolons connect rhizoids	supports sporangium	
Saksenea	no	wooly white at RT	elongated	branched hyphae	flask shaped; smooth	opposite sporangiophores		aseptate or sparsely septate
Cunninghamella	yes	white, cottony; turn gray with age at RT		branched	one celled sporangiole at tip of swollen denticles			good growth at 37C - some grow at 42C

Syncephalastrum	yes	wooly, dark	round - form in row inside merosporengia	branched	merosporengia - cylindrical; radiate surface of vesicle	rudimentary		
------------------------	-----	-------------	--	----------	---	-------------	--	--