

Sesame disease management

Sesame growth stage	Disease Name						Disease management strategies
	Cotyledon	Seedling	Vegetative growth	Budding	Flowering	capsules formation	
Seedling Damping off	<i>Pythium spp., Phytophthora spp., Rhizoctonia sp., Fusarium sp.</i>						Timely cultivation, healthy seed, proper drainage, rotation, seed treatment with suitable fungicides such as carboxin thiram or metalaxyl compounds.
Cercospora Leaf Spot			<i>Cercospora sesami</i>				Tolerant varieties, use of fungicides in the flowering to capsule formation stages, rotation and stubble management.
Alternaria Blight			<i>Alternaria sesami</i>				Healthy seed, Use of fungicides in the flowering to capsule formation stages, rotation and stubble management, timely harvesting.
Powdery Mildew			<i>Oidium sesami</i>				Rotation and Stubble management, Use of Sulfur or Dinocap (Caratan) fungicides.
Fusarium Wilt		<i>Fusarium oxysporum f.sp.sesame, F.solani</i>					Rotation, timely cultivation, tolerant varieties, Proper drainage, biological control with antagonistic bacteria and fungi.
Root rot			<i>Phytophthora spp</i>				Proper drainage, Rotation, Resistant varieties, Seed treatment with suitable fungicides such as metalaxyl compounds.
Charcoal Rot				<i>Macrophomina phaseolina</i>			Rotation, timely cultivation, tolerant varieties, proper planting density, Irrigation.
Sclerotinia Rot				<i>Sclerotinia sclerotiorum</i>			Rotation, Tolerant varieties, Proper planting density, Use of fungicides before infection.
Cyst Nematode		<i>Heterodera cajani</i>					Rotation, control of environmental stress, resistant varieties, low tillage.
Bacterial Blight			<i>Xanthomonas campestris pv. sesame</i>				Healthy seed, low planting density, resistant varieties, rotation and stubble management.
Bacterial Leaf spot			<i>Pseudomonas syringae pv. sesame</i>				Healthy seed, low planting density, resistant varieties, rotation and stubble management.
Phyllody			<i>Candidatus phytoplasma asteris</i>				Weeds control, control of insect vectors (hopper), healthy seeds, timely cultivation, removal of infected plants.