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دکترای بیماری‌شناسی گیاهی

مرکز تحقیقات کاربردی و تولید بذرها، شرکت توسعه کشت دانه‌های روغنی

### Soybean diseases management

Soybean growth stage							Disease management strategies
Disease name	Cotyledon (VC)	First compound leaf (V1)	Multi-leaves (Vn)	Flowering (R1-R2)	Podding (R3-R4)	Seed filling (R5-R6)	
Seedling damping off	<i>Pythium spp.</i> • <i>Phytophthora spp.</i> • <i>Rhizoctonia sp.</i> • <i>Fusarium sp.</i>						Timely cultivation, Healthy seed, Proper drainage, Rotation, Seed treatment with suitable fungicides such as carboxin thiram or metalaxyl compounds.
Cercospora Blight				<i>Cercospora kikuchii</i>			Tolerant varieties, Use of fungicides in the pod and seed filling stages, Rotation and Stubble management.
Stem and pods blight			<i>Diaporthe phaseolorum</i> • <i>Phomopsis spp</i>				Healthy seed, Use of fungicides in the pod and seed filling stages, Rotation and Stubble management, Timely harvesting.
Downy mildew			<i>Pernospora manshurica</i>				Seed treatment with suitable fungicides such as metalaxyl-mancozeb, Rotation and Stubble management, Resistant varieties.
Sudden Death Syndrome (SDS)				<i>Fusarium spp</i>			Rotation, Timely cultivation, Tolerant varieties, Proper drainage.
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.
Rust			<i>Phakopsora pachyrhizi</i>				Timely cultivation, Rotation and Stubble management. Use of Strobilurin or Triazole fungicides at the beginning of infection period.
Anthraxnose			<i>Colletotrichum truncatum</i>				Healthy seed, Use of fungicides in the pod and seed filling stages, Rotation and Stubble management.
Sclerotinia Stem Rot				<i>Sclerotinia sclerotiorum</i>			Rotation, Tolerant varieties, Proper planting density, Use of fungicides before infection.
Cyst Nematode		<i>Heterodera glycines</i>					Rotation, Control of environmental stress, Resistant varieties, Low tillage.
Bacterial Blight		<i>Pseudomonas savastanoi pv. glycinea</i>					Healthy seed, Low planting density, Resistant varieties, Rotation and Stubble management.
Bacterial Blight			<i>Xanthomonas axonopodis pv. glycines</i>				Healthy seed, Low planting density, Resistant varieties, Rotation and Stubble management.
Viral diseases	<i>Soybean Mosaic Virus</i> • <i>Tobacco Ringspot Virus</i> • <i>Bean pod Mottle Virus</i> •						Weeds control, Control of insect vectors (aphids, thrips, white flies), Healthy seeds.