

TABLE II  
COMMON PLANT DISEASES

Types of crop	Name of crops	Name of diseases	Types of diseases	Infected parts	References
Cereal crops	Rice	Rice sheath blight	Fungal	Leaves	[155] (2019)
		Rice blast	Fungal	Leaves, ears, and stems	[156] (2015)
	Wheat	Wheat leaf rust	Fungal	Leaves	[157] (2016)
		Stripe rust	Fungal	Leaves	[158] (2014)
		Powdery mildew	Fungal	Leaves	[159] (2018)
		Fusarium head blight	Fungal	Ears and stalks	[160] (2019)
	Maize	Leaf spot disease	Fungal	Leaves and bracts	[161] (2017)
		Gray Leaf spot	Fungal	Leaves	[162] (2018)
		Ear rot	Fungal	Ears and kernels	[163] (2019)
	Barley	Powdery mildew	Fungal	Leaves	[164] (2012)
Tuber crops	Potato	Potato virus Y	Viral	Leaves	[139] (2019)
		Late blight disease	Fungal	Leaves and fruits	[165] (2019)
	Sugar Beet	Beet rust	Fungal	Leaves	[166] (2012)
		Cercospora leaf spot	Fungal	Leaves	[167] (2010)
		Powdery mildew	Fungal	Leaves	[168] (2010)
		Root rot	Fungal	Leaves and roots	[169] (2012)
Oil seed	Canola	Blackleg	Fungal	Leaves, stems, and pods	[170] (2016)
		Sclerotinia stem rot	Fungal	Stems	[170] (2016)
		White leaf spot	Fungal	Leaves	[170] (2016)
		Downy mildew	Fungal	Leaves	[170] (2016)
		Powdery mildew	Fungal	Leaves	[170] (2016)
		Alternaria leaf and pod spot	Fungal	Leaves or pods	[170] (2016)
Legume crops	Soybean	Yellow mosaic virus	Viral	Leaves	[171] (2013)
		Soybean anthracnose	Fungal	Stems, leaves, and pods	[172] (2018)
Vegetables	Tomato	Yellow leaf curl	Viral	Leaves	[173] (2018)
		Gray mold	Fungal	Leaves, stems, and fruits	[174] (2017)
	Cucumber	Angular spot disease	Bacterial	Leaves	[175] (2016)
		Septoria leaf spot	Fungal	Leaves and fruits	[41] (2021)
	Capsicum	Verticillium wilt	Fungal	Leaves, stems, and roots	[176] (2019)
		Phytophthora blight	Fungal	Leaves, fruits, and roots	[177] (2019)
		Cercospora leaf spot	Fungal	Leaves	[178] (2022)
	Onion	Sour skin	Bacterial	Decay in fruits	[179] (2012)
Fruits	Citrus	Citrus greening (Huanglongbing)	Bacterial	Leaves, fruits, and roots	[53] (2012)
		Citrus canker	Bacterial	Leaves and fruits	[180] (2019)
	Grapevine	Downy mildew	Fungal	Leaves	[181] (2016)
		Powdery mildew	Fungal	Leaves	[181] (2016)
		Gray mold	Bacterial	Leaves, stems, and fruits	[182] (2015)
		Black rot	Fungal	Leaves, shoots, and fruits	[182] (2015)
		Verticillium wilt	Fungal	Leaves, stems, and root	[182] (2015)
	Apple	Powdery mildew	Fungal	Leaves	[183] (2016)
		Cedar apple rust	Fungal	Leaves	[183] (2016)
	Pear	Cercospora Leaf spot	Fungal	Leaves	[183] (2016)
	Blueberries	Leaf motel	Viral	Leaves	[184] (2021)
		Septoria leaf spot	Fungal	Leaves and fruits	[185] (2019)

hard to distinguish by the naked eye. The pathogens can also be spread with the aid of hosts, such as ornamental plants. This is because ornamental plants are massively sold before the infections are identified [100]. The host/pathogen interaction with healthy plants can be divided into three phases. The first phase is known as inoculation. During the inoculation process, the pathogen infects the host. The second stage is known as the incubation or latency period, where the pathogen becomes the

parasite on the plants, and the pathogens rapidly multiply and infect the plants. As a result, disease symptoms appear across the plants in the last stage. Once the disease symptoms appear on the plants, the diseases are verified using different methods. Table II presents some plants and diseases with significant economic importance. For instance, cereal plants such as rice, wheat, maize, and barley are the primary staple food for the global population [102],