

Index

A

- Acibenzolar, 32–33, 122
- Active defense, 18–19
- Alternaria*, 3–5, 32–35, 44, 46, 47, 72, 75, 80, 85, 86, 175
- Alternaria alternata*, 3, 8, 32–35, 46, 47, 80, 85, 175
- Alternative methods, 58, 90, 108, 120, 121, 123, 127–129
- Antagonists, 22, 90, 120, 138, 150, 173, 199
- Anthracnose, 4, 5–9
- Antifungal substances
 - avocado preformed, 2, 9–10
 - induced, 2, 10
 - mango preformed, 2–9
- Aspergillus*, 49, 51, 172

B

- β -Aminobutyric acid (BABA), 34
- Bioactive compounds, 120–122, 124
- Biocontrol agents
 - formulations, 99, 102, 120, 123, 129, 139, 149–166, 199, 201, 202
- Biocontrol treatments, 90–94, 102, 140, 145, 158–162, 173, 178, 199, 200
- Biological control, 32, 33, 35–37, 58, 90, 93, 94, 102, 120–121, 127–129, 137–145, 150, 171–180, 198–201
- Biotrophic pathogens, 15, 18–19, 44–45, 52–53, 64
- Botryodiplodia*, 5, 9
- Botryosphaeria dothidea*, 72, 75, 85
- Botrytis cinerea*, 13–25, 47, 64, 72, 110, 123, 172, 184

C

- Candida sake*, 90–96, 120, 123, 124, 139, 150–157, 159–162, 166, 172

- Chitosan, 34, 122, 128
- Cladosporium, 5, 32
- Colletotrichum*
 - acutatum*, 141
 - gloeosporioides*, 4–10, 45–48, 52, 173
- Control postharvest diseases, 31–37, 72, 86, 89–102, 137–145

D

- Decaying fruits, 32, 43–53, 90, 102, 107, 112, 140, 142

E

- Elicitors, 14, 17, 31–37, 52, 58, 122, 130, 174, 176
- Epidemiological assessment, 69–87
- Epidemiology, 69–87, 125, 184–192, 199, 201–206
- Ethylene (ET), 10, 16, 19–23, 25, 52, 58–65, 80, 156, 174–176, 184

F

- Fruit resistance, 1–10, 31–37, 58, 86, 124, 125, 173, 175–180
- Fruits
 - avocado, 2, 9–10, 45–47, 139
 - citrus, 49, 57–65, 91, 110, 123, 139, 150, 172
 - mango, 2–9, 32, 34, 80, 110, 141
 - melons, 31–37, 46
 - peach, 32, 73, 75, 80, 86, 95, 99, 109, 125, 126, 138, 139, 172, 177, 178, 180, 197–206
 - pome, 70, 80, 91, 109–115, 120, 123, 124, 126, 138–142, 150, 151, 155

Fruits (cont.)

- stone, 70–75, 77, 80–85, 110, 111, 123, 125, 126, 138, 141, 142, 201
- tomato, 13, 16–19, 21–25, 34, 46, 51, 52, 110, 111, 142

Fruit susceptibility, 123, 193–195

Fungicide residues, 14, 32, 109, 115

Fungicide resistance, 14, 32, 72, 85, 86, 112–116, 195, 206

Fusarium moniliforme, 85

Fusarium rot, 32–35, 85, 110–111

G

Geotrichum, 32, 110, 172

Global regulation of genes, 57–65

I

Induced resistance, 13–25, 31–37, 122, 125, 159, 172, 174–179

L

Latent infection, 32, 70, 126, 140–141, 201

Low risk substances, 91–94

M

Mango

- latex, 2–8

Mechanisms of resistance, 13–25, 32, 36, 37, 175, 179

Microbial antagonists, 90, 92, 120–121, 127, 141, 143, 150

Monilinia fructicola, 71–77, 81–86, 125, 126, 138, 141, 177, 178, 198, 203, 206

Monilinia laxa, 71–77, 81–83, 85, 95, 125–126, 198–199, 201, 203–206

Monitoring resistance, 84–86

Mucor rot, 32, 35

N

Necrotrophic infection, 17, 20, 51–52

Necrotrophic pathogens, 14–15, 17–23, 25, 123, 173, 176, 177, 179

Non-fungicidal control, 140, 183–195

O

Osmotic treatments, 97, 150, 156–158, 162–166

P

Pantoea agglomerans, 90–92, 96–102, 124, 151, 156–158, 162–166

Pathogenicity, 20, 45, 47, 49, 51, 52, 175, 178–179

Penicillium

Penicillium digitatum, 47, 49, 57–65, 90, 97–99, 101, 112, 123, 126, 127, 158, 172, 176, 179

Penicillium expansum, 47, 49–51, 91–93, 95, 96, 110, 115, 123–124, 145, 152, 155, 158, 172, 173, 175, 177–179

Penicillium italicum, 47, 49, 58, 90, 110, 123, 126, 127, 172

pH modulation

- acidifying fungi, 45, 47–51

- alkalizing fungi, 45–47

Phoma, 9

Phomopsis, 9

Phytoalexins, 2, 15, 24, 172, 176

Plant hormones, 19–20, 25

Plant resistance, 14–16, 18, 20, 21, 25, 175

Polygalacturonase-inhibiting proteins (PGIP), 15–17

Polygalacturonases (PGs), 17, 23

Postharvest application, 33, 36, 93, 115, 138–140

Postharvest fungicide, 107–117, 185, 195

Postharvest pathogens, 1–10, 33, 43–53, 57–65, 90, 91, 112, 115, 120–122, 141, 151, 173, 175, 180

Postharvest treatment, 8–9, 32, 33, 35, 72, 92–94, 99, 102, 110, 114, 122, 124, 125, 185, 199, 201

Potato, 32, 74, 78, 79, 110, 111, 139, 172

Prediction systems, 192, 195, 204

Preharvest application, 90–93, 97, 199

Q

Quiescent infection, 2, 4, 9, 44, 45, 52, 70, 73–77, 83–85, 108, 125, 128

Quiescent stage, 44–45

R

Registration of new postharvest fungicides, 107–117, 120–121, 127

Residue limits, 108–109

Resistance, 1–10, 13–25, 31–37, 52, 58, 72, 90, 108, 122, 151, 172, 195, 206

Resistance management, 86, 110, 115–117

Rhizopus rot, 32, 35, 110, 111, 172–173

Risk assessment, 84, 108–109, 204

S

Sanitation, 70, 115–117, 126, 140, 198, 206
Sclerotinia sclerotiorum, 47, 49–51, 178
Silicon, 33–34
Storage rot, 34, 35, 183–195
Systemic acquired resistance (SAR), 18–19,
32–35, 174, 175, 177, 179

T

Thermal-stress treatments, 162–166
Trichothecium, 32
Tuber crops, 110, 111