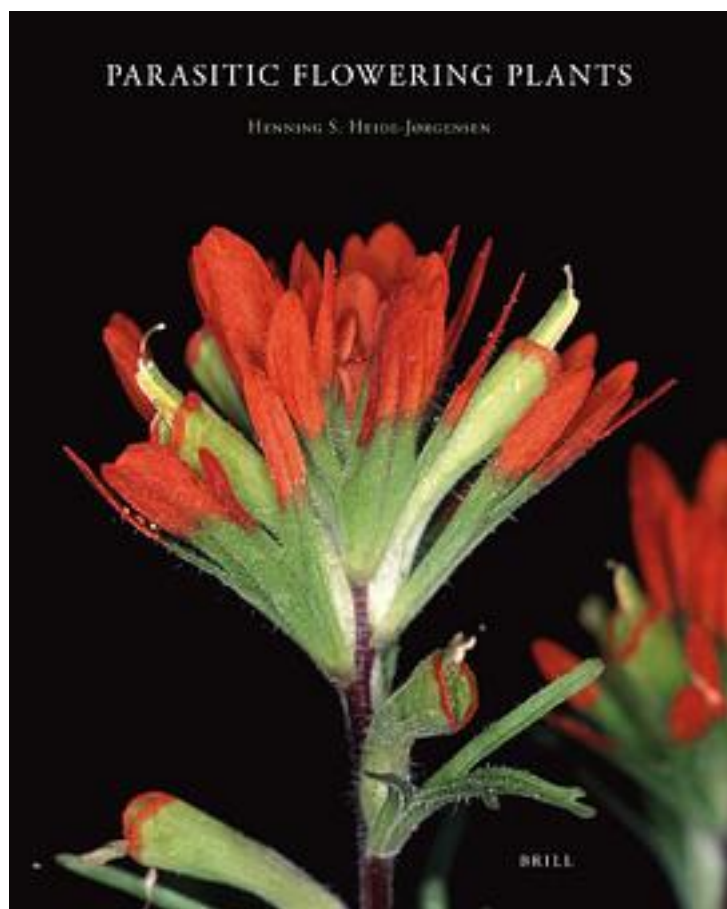


Parasitic Flowering Plants



[Parasitic Flowering Plants 下载链接1](#)

著者:Heide-Jorgensen, Henning S.

出版者:

出版时间:2008-5

装帧:

isbn:9789004167506

Parasitic flowering plants are strikingly impressive and beautiful and hold many surprises of both general and scientific interest. Parasites also have great influence on the quality of human life when attacking crop plants. Some parasites have since early times appealed to our imagination and have been part of religious or folkloristic events

and used as gifts to royalties. This beautifully illustrated book covers all parasitic families and most of the genera. It also discusses the establishment of the parasite, the structure and function of the nutrient absorption organ (haustorium), and how the parasites are pollinated and dispersed as well as their ecology, hosts, and evolution. The book is written in a mostly non-technical language and is provided with a glossary and explanatory boxes.

作者介绍:

目录: Parasitic Flowering Plants.....	Page 4
Contents.....	Page 8
Preface by Job Kuijt.....	Page 13
Author's preface	Page 14
What is a parasitic plant?	Page 16
Parasite 'look alike'	Page 17
Box 1. Myco-heterotrophic plants	Page 19
Types of parasites and some definitions	Page 21
The haustorium	Page 23
Box 3. Vascular tissue in higher plants	Page 24
A parasitic gymnosperm	Page 32
How many plants are parasitic?	Page 35
History of research in parasites	Page 38
Olacaceae	Page 40
Schoepfiaceae	Page 44
Box 4. Life cycle and embryology of flowering plants	Page 45
Opiliaceae	Page 47
Loranthaceae	Page 48
Vegetative morphology	Page 50
Hhaustorium anatomy	Page 52
Floral structure and pollination	Page 57
Bird pollination.....	Page 59
Embryology.....	Page 64
Dispersal biology.....	Page 65
The root parasites.....	Page 69
Loranthaceae in the New World	Page 73
Loranthaceae in Africa	Page 81
Loranthaceae in Eurasia.....	Page 89
Loranthaceae in Australia.....	Page 93
Loranthaceae in selected isolated islands.....	Page 96
Box 5. Endemism	Page 97
Misodendraceae.....	Page 105
Eremolepidaceae.....	Page 109
Santalaceae.....	Page 110
Vegetative morphology.....	Page 112
Floral biology.....	Page 114
Herbaceous genera.....	Page 115
Woody genera.....	Page 117
Viscaceae.....	Page 128
Phoradendron.....	Page 132
Korthalsella.....	Page 138
Viscum.....	Page 142
Arceuthobium.....	Page 151

Summary	Page 158
Krameriaceae.....	Page 160
Cassytha (Lauraceae).....	Page 163
Cuscuta (Convolvulaceae).....	Page 168
Hemiparasitic Orobanchaceae.....	Page 176
Habit and haustoria.....	Page 177
Flower biology.....	Page 182
Widely distributed genera.....	Page 184
Northern temperate zone.....	Page 189
Old World warm climates.....	Page 198
Holoparasitic Orobanchaceae.....	Page 204
Genera transferred from Scrophulariaceae.....	Page 206
Orobanchaceae (sensu stricto)	Page 213
Cynomoriaceae.....	Page 222
Lennoaceae.....	Page 225
Mitrastemonaceae	Page 228
Apodanthaceae.....	Page 230
Cytinaceae.....	Page 235
Rafflesiaceae.....	Page 238
Rafflesia.....	Page 242
Sapria.....	Page 246
Rhizanthus	Page 247
Hydnoraceae.....	Page 250
Hydnora	Page 252
Prosopanche	Page 254
Vegetative morphology and anatomy.....	Page 255
Inflorescences and flowers.....	Page 258
The most widely distributed genera.....	Page 260
American genera.....	Page 263
African genera.....	Page 270
Southeast Asian-Pacific genera	Page 274
Seed dispersal strategies.....	Page 278
Germination and host recognition	Page 282
Haustral development.....	Page 284
Haustral initiation	Page 285
Development of the holdfast.....	Page 286
Box 6. The plant cuticle	Page 288
Development of the endophyte.....	Page 291
Differentiation of the xylem bridge	Page 299
The mature haustorium	Page 300
Graniferous tracheary elements.....	Page 302
The interface.....	Page 304
Phoradendron case story.....	Page 306
Water relations (Transpiration)	Page 310
Box 7. Absorption and transport of nutrient ions	Page 311
Nutrient absorption and translocation.....	Page 312
Translocation from parasite to host.....	Page 315
Box 8. Photosynthesis.....	Page 316
Photosynthesis.....	Page 317
Further physiological topics.....	Page 320
Host specificity.....	Page 322
Determining the host range.....	Page 323
Species delimitation and host range.....	Page 327
Host specificity in various taxa	Page 330

Epi- and self parasitism.....	Page 341
Mimicry	Page 344
Biochemical defence	Page 346
Hypertrophy and hormonal disorder	Page 348
Mechanical defence	Page 350
Flowers and fruits as food sources.....	Page 351
Herbivory.....	Page 352
Vegetation ecology.....	Page 358
Arid vegetation - xerophytism.....	Page 360
Box 9 . Xerophytism.....	Page 361
Coastal vegetation - salt tolerance.....	Page 363
Temperate and tropical forests.....	Page 365
Arctic vegetation.....	Page 366
Cultivated and urban land.....	Page 367
Ecosystems - fires	Page 368
7. Harmful parasites and control methods.....	Page 372
Parasitic plants in agriculture.....	Page 373
Cuscuta and Cassytha on crops.....	Page 375
Striga on crops.....	Page 376
Orobanche and Phelipanche on crops.....	Page 380
Other root parasites on crops.....	Page 382
Control methods	Page 384
Parasites in forestry and orchards.....	Page 391
Arceuthobium	Page 392
Other stem parasites.....	Page 394
Control methods	Page 397
8. Ecology and evolution.....	Page 400
Evolution of different modes of parasitism.....	Page 401
Convergent evolution.....	Page 413
Co-evolution and bird pollination	Page 416
Phylogeny.....	Page 418
Transfer of genetic information.....	Page 419
The phylogenetic tree.....	Page 420
Nature conservation	Page 421
Glossary.....	Page 429
Selected literature.....	Page 432
List of photographers.....	Page 436
Index.....	Page 440
• • • • •	(收起)

[Parasitic Flowering Plants 下载链接1](#)

标签

评论

[Parasitic Flowering Plants 下载链接1](#)

书评

[Parasitic Flowering Plants 下载链接1](#)