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Nota di contenuto	Front Cover; Seeds: Ecology, Biogeography, and Evolution of Dormancy and Germination; Copyright Page; Contents; Preface to the Second Edition; Preface to First Edition; 1 Introduction; Purpose; Seed Germination Ecology; A Book on Seed Dormancy and Germination from a Different Perspective; Need; Content; 2 Ecologically Meaningful Germination Studies; Purpose; Definition of Seed Dormancy; Guidelines for Laboratory Studies on Germination Ecology; Collect Seeds at Maturity; Check Seeds for Presence of Embryo; Test and Use Seeds Immediately after Harvesting; Check for Imbibition of Water Use Intact Natural Dispersal UnitsReplications; Statistical Analyses; Petri Dishes; Substrate; Placement of Seeds on/in Substrate; Water; pH; Disinfectants and Fungicides; Constant vs. Alternating Temperature Regimes; Light and Darkness; Store Seeds under Natural or Simulated Habitat Conditions; Test Seeds Frequently; Percentages and Rates of Germination; Very Fast Germinating Species; Length of Germination Test Period; Test Viability of Nongerminated Seeds; Germinating Seeds You Know Nothing About; 3 Types of Seeds and Kinds of Seed Dormancy; Purpose; Types of Seeds Classification of Seed DormancyHierarchical Classification System;

Nikolaeva's Formula System; Dichotomous Key for Seed Dormancy; Overview of Classes of Seed Dormancy; Physiological Dormancy; Abscisic Acid and Development of Dormancy; Nondeep Physiological Dormancy (PD): Description; Nondeep Physiological Dormancy: Causes; Intermediate Physiological Dormancy; Deep Physiological Dormancy; Epicotyl Physiological Dormancy; Chemical Dormancy, a Part of Physiological Dormancy; Mechanical Dormancy, a Part of Physiological Dormancy; Morphological Dormancy
New Plant Comes from a Differentiated, Underdeveloped Embryo
New Plant Comes from an Undifferentiated Embryo; Morphophysiological Dormancy; New Plant Comes from a Differentiated, Underdeveloped Embryo; Differentiated, Underdeveloped Embryos: A Special Case with Palms; Undifferentiated Embryos that Develop into Differentiated Embryos; New Plant Comes from an Undifferentiated Embryo; Physical Dormancy; Physical Plus Physiological Dormancy; 4 Germination Ecology of Seeds with Nondeep Physiological Dormancy; Purpose; Discovery of Dormancy Cycles; Changes in the State of Dormancy
The Dormancy Continuum
Environmental Factors Causing Changes in Dormancy States; Temperature; Dormancy Loss at High Temperatures; Dormancy Loss at Low Temperatures; Models Related to Changes in Dormancy State and Temperature; Darkness; Light; Gases; Water; Hydrothermal Time Model and Germination; Inorganic Chemicals; Organic Chemicals; 5 Germination Ecology of Seeds with Morphophysiological Dormancy; Purpose; Levels of Morphophysiological Dormancy; Nondeep Simple Morphophysiological Dormancy; Intermediate Simple Morphophysiological Dormancy; Deep Simple Morphophysiological Dormancy
Deep Simple Epicotyl Morphophysiological Dormancy

Sommario/riassunto

The new edition of Seeds contains new information on many topics discussed in the first edition, such as fruit/seed heteromorphism, breaking of physical dormancy and effects of inbreeding depression on germination. New topics have been added to each chapter, including dichotomous keys to types of seeds and kinds of dormancy; a hierarchical dormancy classification system; role of seed banks in restoration of plant communities; and seed germination in relation to parental effects, pollen competition, local adaptation, climate change and karrikinolide in smoke from burning plants. <p
