

K. R. Shivanna
N. S. Rangaswamy

POLLEN BIOLOGY

A Laboratory Manual



Springer-Verlag

Pollen Biology A Laboratory Manual

V. P. Sharma



Pollen Biology A Laboratory Manual:

Pollen Biology K.R. Shivanna, N.S. Rangaswamy, 2012-12-06 Pollen grains are everywhere in the air in the water in soil and in the food we eat Pollen has direct relevance in agriculture horticulture plant breeding crop improvement and biotechnology They are further of use for monitoring cytotoxic effects by herbicides pesticides and pollutants testing for allergic reactions and for basic studies on gene expression research on differentiation and polarity Detailed instructions of the standard techniques which have all been tested and improvised by the authors are given such as collection and storage of pollen pollen culture germination tests for viability incompatibility and isolation of protoplasts Introduced by an explanation of the principles involved the step by step protocols are complemented by personal notes and precautions specifying the reagents used and various appendices on basic and specific requirements for laboratory exercises on pollen **Biology Lab**

Manual Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manual Lab Manual Biology Hard Bound Class 12 Rajesh Kumar, Lab Manual **Practical/Laboratory Manual Biology -by Dr. Sunita Bhagia, Er. Meera**

Goyal (SBPD Publications) Dr. Sunita Bhagia, Er. Meera Goyal, 2021-07-03 Introduction EXPERIMENTS 1 To study pollen germination on slide 2 To study the texture moisture content pH and water Holding Capacity of soils collected from different sites 3 To collect water from different water bodies and study them for pH Clarity and presence of living organisms 4 To study the presence of suspended particulate matter in air at different sites 5 To study plant population density by quadrat method 6 To study plant population frequency by quadrat method 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine 8 To study effect of different temperature and three different pH on the activity of salivary amylase 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc SPOTTING 1 Pollination in flowers 2 Pollen germination 3 Slides of mammal tissues 4 Meiosis cell division 5 T S of Blastula 6 Mendel s inheritance laws 7 Pedigree chart 8 Controlled pollination 9 Common diseases causing organisms 10 Xerophytic adaptation 11 Aquatic adaptation VIVA VOCE **Lab Manual Biology Class 12** Rajesh Kumar, Lab Manual **Reproductive**

Ecology of Flowering Plants: A Manual K.R. Shivanna, Rajesh Tandon, 2014-09-01 Successful reproduction is the basis not only for the stability of the species in their natural habitat but also for productivity of our crop plants Therefore knowledge on reproductive ecology of wild and cultivated plants is important for effective management of our dwindling biodiversity and for the sustainability and improvement of the yield in crop species Conservation and management of our plant diversity is going to be a major challenge in the coming decades particularly in the tropical countries which are rich in biodiversity Reproductive failure is the main driver for pushing a large number of tropical species to vulnerable category Available data on reproductive ecology on tropical species is very limited and there is an urgent need to initiate research on these lines A major limitation for the beginners to take up research is the absence of simple concise work manuals that provide step wise procedures to study all aspects of reproductive ecology The Manual fills this void Over 60 protocols described in the manual

cover the whole spectrum of reproductive ecology study sites and species phenology floral morphology and sexuality pollen and pistil biology pollination ecology breeding system seed biology seed dispersal and seedling recruitment Each chapter gives a concise conceptual account of the topic before describing the protocols The Manual caters to researchers teachers and students who are interested in any aspect of reproductive ecology of flowering plants botanists ecologists agri horticulturists foresters entomologists plant breeders and conservation biologists

Hard Bound Lab Manual Biology Neena Sinha, R Rangarajan, R P Manchanda, R K Gupta, Rajesh Kumar, Lab Manuals

Practical/Laboratory Manual Biology Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal Dr. Sunita Bhagia ,Megha Bansal,2020-06-22

A List of Experiments

- 1 Study pollen germination on a slide
- 2 Collect and study soil from at least two different sites and study them for texture moisture content pH and water holding capacity Correlate with the kinds of plants found in them
- 3 Collect water from two different water bodies around you and study them for pH clarity and presence of any living organism
- 4 Study the presence of suspended particulate matter in air at two widely different sites
- 5 Study the plant population density by quadrat method
- 6 Study the plant population frequency by quadrat method
- 7 Prepare a temporary mount of onion root tip to study mitosis
- 8 Study the effect of different temperatures and three different pH on the activity of salivary amylase on starch
- 9 Isolate DNA from available plant material such as spinach green pea seeds papaya etc

B Study observation of the following

- Spotting 1 Flowers adapted to pollination by different agencies wind insects birds
- 2 Pollen germination on stigma through a permanent slide
- 3 Identification of stages of gamete development i e T S of testis and T S of ovary through permanent slides from grasshopper mice
- 4 Meiosis in onion bud cell or grasshopper testis through permanent slides
- 5 T S of blastula through permanent slides Mammalian
- 6 Mendelian inheritance using seeds of different colour sizes of any plant
- 7 Prepare pedigree charts of any one of the genetic traits such as rolling of tongue blood groups ear lobes widow s peak and colour blindness
- 8 Controlled pollination emasculation tagging and bagging
- 9 Common disease causing organisms like Ascaris Entamoeba Plasmodium any fungus causing ringworm through permanent slides or specimens Comment on symptoms of diseases that they cause
- 10 Two plants and two animals model virtual images found in xeric conditions Comment upon their morphological adaptations
- 11 Two plants and two animals models virtual images found in aquatic conditions Comment Content

EXPERIMENTS

- 1 To study pollen germination on slide
- 2 To study the texture moisture content pH and waterHolding Capacity of soils collected from different sites
- 3 To collect water from different water bodies and study them for pH Clarity and presence of living organisms
- 4 To study the presence of suspended particulate matter in air at different sites
- 5 To study plant population density by quadrat method
- 6 To study plant population frequency by quadrat method
- 7 To study various stages of mitosis in root tip of onion by preparing slide in acetocarmine
- 8 To study effect of different temperature and three different pH onthe activity of salivary amylase
- 9 To study the isolation of DNA from available plant material such as spinach green pea seeds papaya etc

SPOTTING

- 1 Pollination in flowers
- 2 Pollen germination
- 3 Slides of mammal tissues
- 4 Meiosis

cell division 5 T S of Blastula 6 Mendel s inheritance laws 7 Pedigree chart 8 Controlled pollination 9 Common disease causing organisms 10 Xerophytic adaptation 11 Aquatic adaptation [EduGorilla's CBSE Class 12th Biology Lab Manual | 2024 Edition | A Well Illustrated, Complete Lab Activity book with Separate FAQs for Viva Voce Examination](#) , Need an informative and well illustrated Lab Manual CBSE Class 12th Biology Lab Manual is here for you The Lab Manual provides comprehensive steps for guiding students through each experiment Rigorously researched content prepared by a team of educators writers editors and proofreaders CBSE Class XII Biology Lab Manual has properly labeled high resolution diagrams and graphs A separate section on Viva Questions has been included to aid students in their Viva examination The Lab Manual explains the complex topics through detailed illustrations and lucid language making them simple to grasp Worksheets have been provided in CBSE Class 12th Biology Lab Manual for doing rough work [A Laboratory Manual in Elementary Biology Emanuel Roth Boyer,1894](#) [Biology Lab Manual Class XII | As per the latest CBSE syllabus and other State Board following the curriculum of CBSE.](#) Dr. Priyanka Gupta,Mr. Kaushalesh Dwivedi,2022-08-04 With the NEP and expansion of research and knowledge has changed the face of education to a great extent In the Modern times education is not just constricted top the lecture method but also includes a practical knowledge of certain subjects This way of education helps a student to grasp the basic concepts and principles Thus trying to break the stereotype that subjects like Physics Chemistry and Biology means studying lengthy formulas complex structures and handling complicated instruments we are trying to make education easy fun and enjoyable [Methods in Plant Cell Biology, Part A ,1995-10-10](#) Methods in Plant Cell Biology provides in two volumes a comprehensive collection of analytical methods essential for researchers and students in the plant sciences Individual chapters written by experts in the field provide an introductory overview followed by a step by step technical description of the methods Key Features Written by experts many of whom have developed the individual methods described Contains most if not all the methods needed for modern research in plant cell biology Up to date and comprehensive Full references Allows quick access to relevant journal articles and to the sources of chemicals required for the procedures Selective concentration on higher plant methods allows for particular emphasis on those problems specific to plants [Forests and Climate Change](#) Hukum Singh,2024-09-18 This book comprehensively examines the complex relationship between forests and climate change from a biological perspective It explores the effects of climate change such as rising temperatures greenhouse gas emissions changing rainfall patterns droughts and cold spells on individual trees and forest ecosystems It considers how climate change affects forest structure function composition and biodiversity and the adaptive strategies forests employ to cope with changing conditions The book focuses on understanding the adaptive capacity of forests and explores different mechanisms at stand and ecosystem levels that enable forests to respond to changing climatic conditions It discusses how forests acclimate and adapt to new climates by modulating growth rates morphology phenology physiology biochemistry and species composition The role of genetic diversity and evolutionary

processes in shaping forest resilience and adaptation is also explored The book also explores potential mitigation strategies to reduce the impacts of climate change Besides this book discusses the ecological principles and the involvement of local communities in conservation and restoration efforts as alternative strategies to enhance the resilience of forest ecosystems against climate change The book provides practical recommendations for policy makers forest managers and conservation practitioners to develop effective climate change adaptation and mitigation strategies in forest landscapes This book serves as a valuable resource and a guide for researchers students and professionals in various fields to protect and sustainably manage vital ecosystems in a rapidly changing climate

The Himalayan Soap Pod Tree (Gymnocladus assamicus) Baharul I. Choudhury, Mohammed Latif Khan, 2019-10-17 Biology distribution and population status of *G. assamicus* Phylogeny and phylogeography of the genus *Gymnocladus* and its close relatives Reproductive ecology of *Gymnocladus assamicus* Seed biology and modes of regeneration Seedling dynamics and ecology of *G. assamicus* Conservation and management of plant biodiversity in the Eastern Himalayan regions with emphasis on soap pod tree *G. assamicus*

A Laboratory Manual for the Solution of Problems in Biology Richard Worthy Sharpe, 1911

Reproductive Biology of Angiosperms Yash Mangla, Priyanka Khanduri, Charu Khosla Gupta, 2023-01-05 Reproductive Biology of Angiosperms Concepts and Laboratory Methods will cater to the needs of undergraduate and graduate students pursuing core and elective courses in life sciences botany and plant sciences The book is designed according to the syllabi followed in major Indian universities It provides the latest and detailed description of structures and processes involved in reproduction in higher plants The inclusion of colour photographs and illustrations will be an effective visual aid to help readers Interesting and significant findings of the latest research taking place in the field of reproductive biology are also provided in boxes At the end of each chapter the methodology of hands on exercises is presented for the implementation and practice of theoretical concepts

Biodiversity, Conservation and Systematics P. Singh, 2019-02-01 This volume compiles the state of the art knowledge on several aspects of Biodiversity Conservation and Systematics The International Botanical Community recognizes that plants create the ecological habitat for all terrestrial organisms and that their management and conservation depend on a good understanding of their taxonomy Biodiversity is considered as an immense economic resource Its conservation and sustainable use ensures food security safeguards human health and provides ecological as well as aesthetic and cultural benefits Systematics as a fundamental science serves as a very important discipline for understanding biodiversity In this volume emphasis has been laid on the simplest Prokaryotic organisms the diverse Algae the Adaptive Strategies of Bryophytes and the Diversity in Pteridophytes There is stress on the importance of Ethnic Knowledge Botanic Gardens and Reproductive Biology in conservation Interesting aspects of Invasive Plant Species Analysis of Plant Biodiversity and Evolution at Genome Level and Leaf Epidermal Diversity in Grasses are discussed Detailed accounts of the fauna and flora of Punjab have also been provided Dr Prithipalsingh is a Senior Reader in Botany in Kirorimal College He has been teaching

since 1971 The areas of special interest in which he is recognized as an expert include besides Plant Taxonomy Biodiversity Studies Ecology and Environmental Biology He has published numerous research papers in National and International Journals Dr Prithipalsingh served on the National Consultation Committee for discussing the State of the Environment Report of India 2001 prepared by the United Nations Environment Programme He has completed a project on Status of biodiversity conservation in Punjab for the Punjab Forest Department as a member of the Tata Energy Research Institute team As a consultant for Biodiversity with The Energy Research Institute TERI Dr Prithipalsingh participated in several World Bank funded research projects of the Uttar Pradesh Uttranchal State Forest Department He has obtained first hand information on the effect of fire grazing collection of non timber forest products and natural regeneration focusing on the ground realities for evaluating the impact of different parameters necessary for formulating management recommendations

Nature at Work - the Ongoing Saga of Evolution V. P. Sharma, 2011-12-27 Charles Robert Darwin was born on 12th February 1809 in Shrewsbury England Darwin shares his birthday with U S President Abraham Lincoln Both were crusaders against slavery Darwin disliked slavery and Lincoln abolished it Darwin was a born naturalist and showed keen interest in nature from the very beginning A breakthrough came when he was selected as a naturalist on the H M S Beagle ship His ve year voyage on the Beagle started in 1831 and was completed in 1836 This was followed by publication of his research ndings that challenged creationist views of the church Darwin conducted a study of fossils and geological records and concluded rightly that all life forms emerged over millions of years of evolution through the force of natural selection In 1859 Darwin published his work on evolution in a book titled On the Origin of Species by Means of Natural Selection or the Preservation of Favored Races The book was received as a scienti c bomb shell and has since changed the human understanding of life forever Today Darwin s ideas on evolution provide foundation to modern biology Darwin died of a heart attack on the 19th April 1882 and was buried in Westminster Abbey near the grave of Sir Isaac Newton The scienti c community is celebrating Darwin s bicentenary worldwide in honor of his ingenuity scienti c thought conviction and courage

Managing Plant Genetic Diversity V. Ramanatha Rao, A. H. D. Brown, M. Jackson, 2001-12-13 This book contains edited and revised papers from a conference on Science and Technology for Managing Plant Genetic Diversity in the 21st Century held in Malaysia in June 2000 organised by the International Plant Genetic Resources Institute IPGRI It includes keynote papers and some 40 additional ones covering ten themes The major scientific challenges to developing a global vision for the next century are identified and key research objectives are also discussed

Methods in Plant Cell Biology David W. Galbraith, Hans J. Bohnert, Don P. Bourque, 1995 Methods in Plant Cell Biology provides in two volumes a comprehensive collection of analytical methods essential for researchers and students in the plant sciences Individual chapters written by experts in the field provide an introductory overview followed by a step by step technical description of the methods Key Features Written by experts many of whom have developed the individual methods described Contains most if not all the methods needed for

modern research in plant cell biology Up to date and comprehensive Full references Allows quick access to relevant journal articles and to the sources of chemicals required for the procedures Selective concentration on higher plant methods allows for particular emphasis on those problems specific to plants

Whispering the Techniques of Language: An Emotional Quest through **Pollen Biology A Laboratory Manual**

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