

# Adventitious root formation

- Roots
- Arise from tissue other than existing roots (e.g. stems, leaves)
- Absolutely necessary for cutting propagation to work



# Adventitious Root Formation In Cuttings

**Tim D. Davis**



## **Adventitious Root Formation In Cuttings:**

Adventitious Root Formation in Cuttings Tim D. Davis, Bruce E. Haissig, Narendra Sankhla, 1988 This text presents a comprehensive treatment of the striking of roots from above ground parts of plants The subject is addressed from the points of view of genetics plant nutrition and water status plant enzymology plant hormones auxins gibberellins cytokinins and other metabolic soil and environment factors Practical propagation problems are also addressed **New Root Formation in Plants and Cuttings** M.B. Jackson, 2012-12-06 The formation of roots is in some respects one of the least fundamentally understood of all plant functions Propagation by cuttings is the aspect that will occur first to most gardeners and horticulturists and it is certainly the most useful application But any observant traveller in the tropics can notice that some trees have the habit of forming roots in the air Climbers like Cissus bear long fine strings of roots hanging down Pandanus trees tend to have stout aerial roots issuing from the bases of the long branches while the tangle of roots around the trunk of many of the Ficus species is characteristic In Ficus bengalensis in particular stout cylindrical roots firmly embedded in the ground from a height of 3 to 5 meters give support to the long horizontal branches enabling them to spread still further In the big old specimen at Adyar near Madras the spread of these branches all around the tree each with a strong root growing out every few meters makes a shaded area under which meetings of almost 5000 people are sometimes held The history of how the formation of roots on stem cuttings was found to be under hormonal control is worth repeating here

### **Environmental, Physiological and Chemical Controls of Adventitious Rooting in Cuttings** Azamal

Husen, 2022-05-27 Environmental Physiological and Chemical Controls of Adventitious Rooting in Cuttings provides a review of the environmental physiological and chemical controls of adventitious rooting in cuttings obtained from plants In plants adventitious roots which are highly useful for vegetative propagation or clonal propagation are produced mainly from leaves hypocotyls stems or shoots Vegetative propagation may occur naturally by using propagules such as roots underground and aerial stems leaves buds and bulbils It may also be done artificially through regenerative organs rhizomes bulbs and corms and by utilizing specialized methods like cutting grafting and layering This book covers the latest tactics surrounding these processes As a plethora of factors affect the adventitious rooting of cuttings adding to the complexity of the phenomenon The main factors which control adventitious root formation are types of cuttings presence of leaf area on cuttings types of hormones and their concentration duration of hormonal treatment quick dip long soak dry dip spray dip or total immerse method maturation juvenile or mature genotype explant position and more all of which are discussed here Provides a comprehensive and exclusive book on the environmental physiological and chemical factors associated with adventitious root formation in cutting with up to date literature and lucid illustrations Presents a multidimensional approach and a broad range of explanation on adventitious root formation associated with mature and juvenile cutting Discusses a number of molecular histological and physiological markers associated with adventitious root formation in numerous plant species

Elaborates on how external and internal factors control the cell tissue initiation differentiation and overall adventitious root formation in cutting

**Biology of Adventitious Root Formation** Tim D. Davis, Bruce E. Haissig, 2013-11-11 Charles E Hess Department of Environmental Horticulture University of California Davis CA 95616 Research in the biology of adventitious root formation has a special place in science It provides an excellent forum in which to pursue fundamental research on the regulation of plant growth and development At the same time the results of the research have been quickly applied by commercial plant propagators agronomists foresters and horticulturists see the chapter by Kovar and Kuchenbuch by Ritchie and by Davies and coworkers in this volume In an era when there is great interest in speeding technology transfer the experiences gained in research in adventitious root formation may provide useful examples for other areas of science Interaction between the fundamental and the applied have been and continue to be facilitated by the establishment in 1951 of the Plant Propagators Society which has evolved into the International Plant Propagators Society with active programs in six regions around the world It is a unique organization which brings together researchers in universities botanical gardens and arboreta and commercial plant propagators In this synergistic environment new knowledge is rapidly transferred and new ideas for fundamental research evolve from the presentations and discussions by experienced plant propagators In the past 50 years based on research related to the biology of adventitious root formation advances in plant propagation have been made on two major fronts

*The Control of Adventitious Root Formation in Stem Cuttings* Rashid Sultan Al-Obeed, 1996

Formation of Adventitious Roots on Green Leaf Cuttings of Phaseolus Vulgaris L. Johanna Margriet Oppenorth, 1980 The development of adventitious roots on green leaf cuttings of Phaseolus vulgaris L is studied The use of green leaf cuttings has the advantage that the leaf blade provides the developing roots in the petiole with all the nutrients required a disadvantage is that the composition of these nutrients can not be changed other than by changing the leaf blade part of the cutting

*Adventitious Root Formation in Stem Cuttings and Containerized Layered Plants of Mussaenda Spp* Rolston St. Hilaire, 1994

**Plant Propagation Concepts and Laboratory Exercises** Caula A. Beyl, Robert N. Trigiano, 2016-01-06 Includes a DVD Containing All Figures and Supplemental Images in PowerPoint This new edition of Plant Propagation Concepts and Laboratory Exercises presents a robust view of modern plant propagation practices such as vegetable grafting and micropropagation Along with foundation knowledge in anatomy and plant physiology the book takes a look into t

*Hormonal Control of Important Agronomic Traits* Chi-Kuang Wen, Yunde Zhao, Yong-Ling Ruan, 2018-12-21 One of the goals of plant science is to improve agricultural sustainability increasing yield food diversity and nutrition while minimizing the negative impact on our environment In response to internal and external cues plant hormones control various aspects of plant growth and development The wealth of our knowledge on plant hormones shall greatly advance sustainable agriculture

**Quality of Ornamental Crops: Effect of Genotype, Preharvest, and Improved Production Chains on Quality Attributes of Ornamental Crops** Patricia Duarte De Oliveira Paiva, Julian C. Verdonk, Antonio Ferrante, Margherita

Irene Beruto, Rob Eduard Schouten, Peter J. Batt, Renato Paiva, 2022-10-26 *Physiological and Molecular Control of Adventitious Root Formation in Ornamental Cuttings* Uwe Drüge, 2019 *Textbook of Forest Science* Asim Kumar Mandal, Abel Nicodemus, 2025-02-14 This textbook presents the latest knowledge on various disciplines of forestry science presented in 39 chapters. Each chapter presents a reappraisal of theory and practice applications and future scope of subject area. It is a single point reference for updated information on both traditional and contemporary areas of forestry. Some of the disciplines covered in the book are biotechnology, remote sensing, forest certification, forest management, forest hydrology, climate change, plantation and urban forestry, biodiversity and genetic resources, conservation, wildfire science, seed science and quality, seed production and ecosystem services. The book primarily serves as an advanced textbook of forest science for students of forestry at all levels. The science of forestry is receiving much more attention of the researchers, policy makers and public than ever before because of growing awareness of vital importance of forests in amelioration of world environment. This book is a comprehensive collection of existing and new methods including outcome and future possibilities of forest science. This book benefits undergraduate and postgraduate students, professional researchers, teachers, practicing foresters and policy planners. The book also encourages the public to understand the relevance of forest science to overcome the contemporary economic and environmental challenges.

**Ethylene Action in Plants** Nafees A. Khan, 2007-05-10 The discovery of the plant hormone ethylene was stunning. Ethylene is a simple gas. Our expanding knowledge of the multiplicity of ethylene's roles in plant development, physiology and metabolism makes the study of this plant hormone increasingly compelling. Elucidation of the genetic regulation of ethylene biosynthesis, characterization of ethylene receptors and analysis of the pathway of ethylene signal transduction coupled with the identification of components in the cascade and target genes have provided insight into how this simple molecule can drive such a diversity of divergent processes. These scientific advances will lead to new technologies that will further enable researchers to harness the powers of ethylene for the benefit of agriculture. In *Ethylene Action in Plants*, classic and emerging roles of ethylene in plant developmental processes are integrated through recent advances characterizing ethylene receptors, promoters and antagonists and biological and environmental factors that mediate ethylene responses. The book's editor, Dr. Nafees Khan, Aligarh Muslim University, Aligarh, India, an expert on ethylene with an impressive number of publications on the interactions between ethylene, photosynthesis and growth of *Brassica* spp. brought together a highly qualified group of international experts to provide state-of-the-art information. To simply list the topics included does not do justice to the book's contents as the articles are not just a compilation of the literature relevant to the topic.

**Growth Regulation in Horticultural Plants: New Insights in the Omics Era** Chenxia Cheng, Lin Xi, Nan Ma, Yi Zheng, 2023-11-06 **Hartmann and Kester's Plant Propagation** Hudson Thomas Hartmann, 2002 Hallmarked as the most successful book of its kind, this remarkably thorough treatment covers all aspects of the propagation of plants, both sexual and asexual, with considerable attention given to human vs. natural efforts to

increase plant numbers The book presents both the art and science of propagation and conveys knowledge of specific kinds of plants and the particular methods by which those plants must be propagated A five part organization outlines general aspects of plant propagation seed propagation vegetative propagation methods of micropropagation and propagation of selected plants For anyone with an interest in how plants are grown and utilized for maintaining and adding enjoyment to human life

**Handbook of Plant Science, 2 Volume Set** Keith Roberts, 2007-12-10 Plant Science like the biological sciences in general has undergone seismic shifts in the last thirty or so years Of course science is always changing and metamorphosing but these shifts have meant that modern plant science has moved away from its previous more agricultural and botanical context to become a core biological discipline in its own right However the sheer amount of information that is accumulating about plant science and the difficulty of grasping it all understanding it and evaluating it intelligently has never been harder for the new generation of plant scientists or for that matter established scientists And that is precisely why this Handbook of Plant Science has been put together Discover modern molecular plant sciences as they link traditional disciplines Derived from the acclaimed Encyclopedia of Life Sciences Thorough reference of up to the minute reliable self contained peer reviewed articles cross referenced throughout Contains 255 articles and 48 full colour pages written by top scientists in each field The Handbook of Plant Science is an authoritative source of up to date practical information for all teachers students and researchers working in the field of plant science botany plant biotechnology agriculture and horticulture

**Second International Symposium on Propagation of Ornamental Plants** Michael Raviv, 1992

*Influence of Photosynthesis and Carbohydrates on Adventitious Root Formation by Leafy Cuttings* Tim D. Davis, 1982

**Adventitious Root Formation in Cuttings of Melaleuca Alternifolia Cheel and Melaleuca Linariifolia Sm** Iain A. Dawson, CSIRO, Division of Plant Industry, SIBANZA Pty Ltd, 1990

*Proceedings of the Plant Growth Regulator Society of America* Plant Growth Regulator Society of America. Meeting, 1986

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