# Arabidopsis : a practical approach /

Wilson, Zoe A.

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Laboratory Manual | Laboratory manuals. | Laboratory manuals. | Manuels de laboratoire.

Monografía

"Arabidopsis has long been acknowledged as the ideal molecular genetic tool for the analysis of development in higher plants. This book covers all the key techniques for using Arabidopsis as an experimental system. This fully up-to-date and comprehensive laboratory manual is an essential source book for all researchers who work on Arabidopsis."--Jacket



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**Contenido:** 1.) Growth, maintenance, and use of Arabidopsis genetic resources Mary Anderson, Fiona Wilson 1 --) 1.) What is Arabidopsis? 1 --) 2.) What makes Arabidopsis such an attractive experimental model? 3 --) 3.) Arabidopsis genetic resource centres 4 --) Arabidopsis genetic resources 4 --) Accessing Arabidopsis resources 5 --) 4.) Mutants of Arabidopsis 5 --) Single gene mutation lines 5 --) Resources for the identification/investigation of novel genes 8 --) Mapping tools 10 --) 5.) Considerations of available resources for identifying novel genes 11 --) Forward genetics 12 --) Reverse genetics 14 --) 6.) Growing Arabidopsis 15 --) How to maintain clean growth conditions 15 --) Growing Arabidopsis in the glasshouse 16 --) Chemical control of pests and diseases 19 --) 7.) Seed storage 21 --) 8.) Growing Arabidopsis with specific growth requirements 23 --) 9.) Sterile culture of Arabidopsis 24 --) 2.) Preservation and handling of stock centre clones Randy Scholl, Keith Davis, Doreen Ware 29 --) 2.) Missions of a plant DNA resource centre 29 --) 3.) Preservation of stocks 30 --) Plasmids with small DNA inserts 30 --) Cosmids 32 --) Phage and phage libraries 33 --) Yeast artificial chromosome (YAC) libraries 33 --) Pools of YAC library cells for PCR screening 37 --) Distribution of YAC libraries arrayed on nylon filters 38 --) Other large-insert libraries 38 --) Yeast expression analysis--'two-hybrid' libraries and complementation testing 42 --) 4.) Verification of stock identity and purity 42 --) 5.) Pooled DNA from T-DNA lines for PCR screening 44 --) 6.) Organization of stock information 48 --) Collecting, maintaining, and disseminating stock data 48 --) Organizing

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