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Titolo	Agarwood : Science Behind the Fragrance / / edited by Rozi Mohamed
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2016
ISBN	981-10-0833-7
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (175 p.)
Collana	Tropical Forestry, , 1614-9785
Disciplina	583.97
Soggetti	Forest products Bioorganic chemistry Pharmaceutical technology Wood Science & Technology Bioorganic Chemistry Pharmaceutical Sciences/Technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	The Origin and Domestication of Aquilaria, an Important Agarwood-Producing Genus -- Wood Resources, Identification and Utilization of Agarwood in China -- Understanding Agarwood Formation and Its Challenges -- Development of Agarwood Induction Technology Using Endophytic Fungi -- Molecular Mechanism Studies of Terpenoid Biosynthesis in Agarwood -- Gyrinops walla: The Recently Discovered Agarwood Producing Species in Sri Lanka -- Resolution of Complex Sesquiterpene Hydrocarbons in Aquilaria malaccensis Volatile Oils Using Gas Chromatography Technique -- Pharmacological Effects of Aquilaria spp. Leaves and Their Chemical Constituents -- Acoustic-Based Technology for Agarwood Detection in Aquilaria Trees -- Keeping Up Appearances – Agarwood Grades and Quality.
Sommario/riassunto	This book gives readers new information to understand the mechanism of agarwood induction and therefore eradicate the myths surrounding agarwood formation. One of the challenges in conserving agarwood resources is species identification. In this book, taxonomy and systematics of agarwood-producing trees from historical and recent perspectives is discussed, and tips are given for identifying cultivated species. In addition, color illustrations are given to highlight vegetative

and reproductive characteristics as well as anatomical features, for identification purposes of both plant and agarwood sources. Another challenge that planters are facing is in acquiring the correct method for agarwood induction, thus development of agarwood induction technologies will be reviewed. A chapter dedicated to bioinduction is included. The book will comprise a chapter on the use of non-destructive technology as a management tool for cultivating agarwood. The book also discusses issues relating to agarwood grades. The absence of an international standard that is acceptable by producer and consumer countries further complicates the issue. Other useful information includes a systematic revelation of agarwood constituents and their complex chemistry, and highlights on a specific pharmaceutical property.