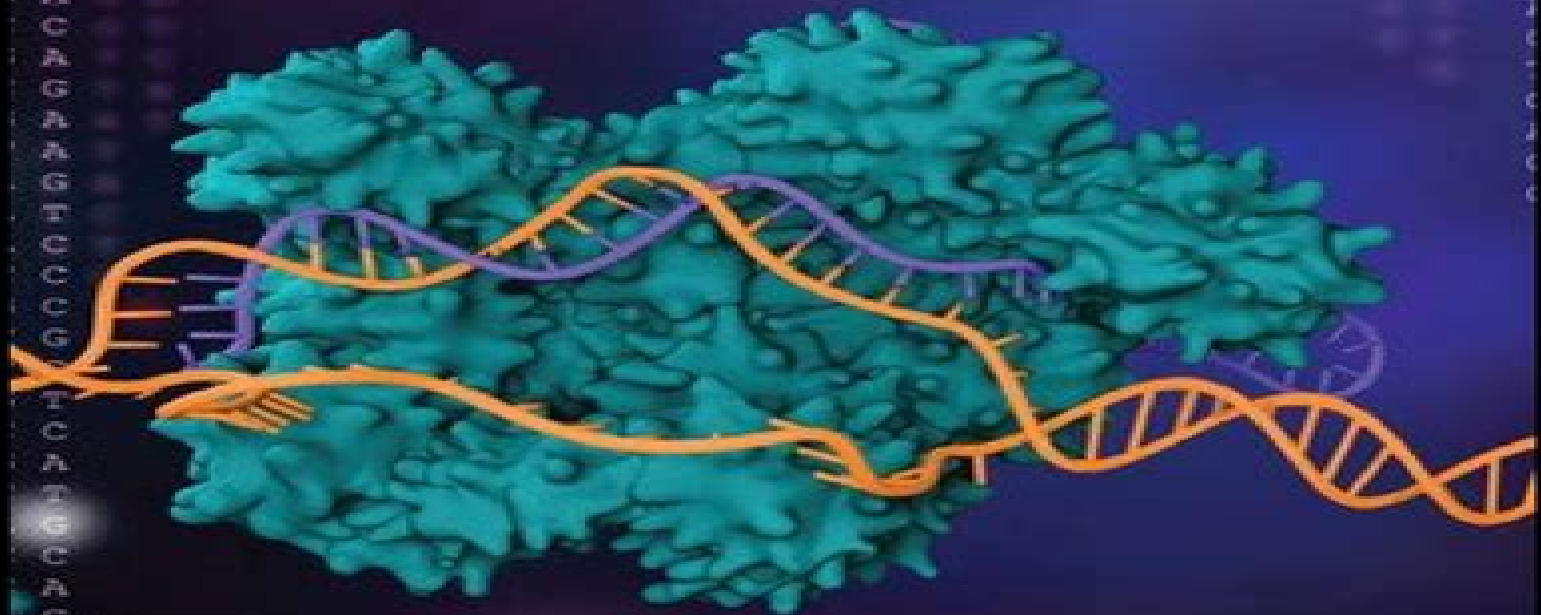


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Tropical Forest Seed Lars H. Schmidt,2007-04-20 The role and perception of forests in tropical areas has changed drastically during the last half century Natural forests as resources for forest products are dwindling Sustainable management of natural forests faces many difficulties in practice although progress has been made However rural people in tropical countries often experience that the forests which were previously the buffer for agriculture and an important

resource are becoming more and more inaccessible Remaining forests are to a large extent protected degraded or so far away from settlement that in practice they are beyond reach The majority of the world s forest products in the future will come from m made plantations and cultivated trees The term plantation usually referring to traditional block plantings of industrial species is acquiring a wider meaning which includes for example smaller woodlots shelterbelts and various types of agroforestry Forest seeds are in this context of utmost importance Not only are seeds the most commonly used propagation material they are also the carriers of the genetic material from one generation to the next Forest seed handling is thus an integrated part of selection management development and conservation of forest genetic resources in a larger context With this in mind and considering how self evident the matter of seed quality is in agriculture one can wonder how little attention has been and is given to forest germplasm in many afforestation and plantation programmes

Journal of Shellfish

Research ,2007 **Petroleum Microbial Biotechnology: Challenges and Prospects** Wael A. Ismail,Jonathan D. Van Hamme,John J. Kilbane,Ji-Dong Gu,2017-09-08 Petroleum hydrocarbons are both a product of and rich substrate for microorganisms from across all Domains of life Rooted deeply in the history of microbiology hydrocarbons have been studied as sources of carbon and energy for microorganisms for over a century As global demand for petroleum and its refined products continues to rise so do challenges associated with environmental pollution oil well souring infrastructure corrosion oil recovery transport refining and upgrading of heavy crude oils and bitumens Advances in genomics synthetic biology and metabolic engineering has invigorated interest in petroleum microbial biotechnology as interest grows in technologies for in situ methane production biodesulfurization and bidenitrogenation bio upgrading of heavy crudes microbial enhanced oil recovery corrosion control and biocatalysts for generating value added products Given the complexity of the global petroleum industry and the harsh conditions in which it operates a deeper understanding of the ecophysiology of aerobic and anaerobic microbial communities that have associations with petroleum hydrocarbons is needed if robust technologies are to be deployed successfully This research topic highlights recent advances in microbial enhanced oil recovery methanogenic hydrocarbon metabolism and carbon dioxide sequestration bioremediation microbiologically influenced corrosion biodesulfurization and the application of metagenomics to better understand microbial communities associated with petroleum hydrocarbons

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