

DEPARTMENT OF MICROBIOLOGY

# **Microbial Transformation Of Steroids And Sterols Ppt**

William Charney, Hershel L. Herzog

# **Microbial Transformation Of Steroids And Sterols Ppt:**

Microbial Transformations of Steroids M. Capek, O. Hanc, M. Tadra, 2013-12-01 Fundamental studies of steroid compounds have begun approximately thirty years ago with the solution of structures of cholesterol and bile acids This field has been receiving more attention when the structures of the principal steroid hormones aglycones of heart glycosides sapogenins steroid alkaloids toad poisons have been established An intensive interest in these derivatives of cyc1opentanoperhydrophe nanthrene was determined especially by practical viewpoints notably by attempts to prepare by synthetical economical procedures a series of steroid hormones and their biologically active derivatives further by theoretical viewpoints Biochemistry of steroids was developing in its beginnings by studies of meta bolites of steroid hormones in animal organism and soon has brought a number of practical results that could be used also in medical diagnostics Considerably later the metabolism of steroid compounds was followed also in microorganisms again in connection with the practical problem to aid to economical syntheses of some steroid hormones Two names are of primary importance for the pioneer works in microbial transformations of steroids that of the Italian worker L MAMOLI who first realized the microbial biosynthesis of testosterone from dehydroepiandro sterone and of the American chemist and microbiologist D H PETERSON who has contributed by his fundamental experiments in microbial hydroxylation of steroids to the position eleven especially to the synthesis of cortisone Microbial transformations of steroids nowadays offer a valuable tool in the preparation of series otherwise difficultly accessible steroid compounds Microbial Transformation of Steroids Alois Capek, Oldřich Microbial Transformations of Steroids M. Capek, O. Hanc, M. Tadra, 1966-06-30 Fundamental Hanč, Milan Tadra, 1966 studies of steroid compounds have begun approximately thirty years ago with the solution of structures of cholesterol and bile acids This field has been receiving more attention when the structures of the principal steroid hormones aglycones of heart glycosides sapogenins steroid alkaloids toad poisons have been established An intensive interest in these derivatives of cyclopentanoperhydrophe nanthrene was determined especially by practical viewpoints notably by attempts to prepare by synthetical economical procedures a series of steroid hormones and their biologically active derivatives further by theoretical viewpoints Biochemistry of steroids was developing in its beginnings by studies of meta bolites of steroid hormones in animal organism and soon has brought a number of practical results that could be used also in medical diagnostics Considerably later the metabolism of steroid compounds was followed also in microorganisms again in connection with the practical problem to aid to economical syntheses of some steroid hormones Two names are of primary importance for the pioneer works in microbial transformations of steroids that of the Italian worker L MAMOLI who first realized the microbial biosynthesis of testosterone from dehydroepiandro sterone and of the American chemist and microbiologist D H PETERSON who has contributed by his fundamental experiments in microbial hydroxylation of steroids to the position eleven especially to the synthesis of cortisone Microbial transformations of steroids nowadays offer a valuable tool in the preparation of series

otherwise difficultly accessible steroid compounds Microbial Transformations of Steroids William Charney, Hershel L. Herzog, 2014-06-28 Microbial Transformations of Steroids A Handbook aims to provide those who wish to use microbial transformations of steroids with a single source book starting from 1937 to the present The handbook first offers information on the history of the microbial transformations of organic compounds including earliest works on the study of nonsteroids and steroids significance of discovery of anti inflammatory action of cortisone first hydroxylations and dehydrogenations manufacture of natural and synthetic corticosteroids and trends in research The text then ponders on chemical classification of microbial transformations of steroids as well as the role of enzymes in microbial transformations and the classes of reactions The publication elaborates on the construction and use of the table Topics include order of the table nomenclature description of the transformation leading to the product yield organism and constants The book also focuses on taxonomy and use of the table including system of classification specific notes on divisions of the table and source of cultures The handbook is a valuable source of data for readers interested in the microbial transformations of steroids Steroids Carlos Barreiro, José-Luis Barredo, 2023-08-29 This detailed volume explores experimental laboratory procedures for a wide range of steroid bioconversions After an overview on the current trends and perspectives the book continues with sections covering microbial screening and synthetic biology applied to microorganisms able to catabolize sterols methods on strain characterization including omics and biochemical analyses methods of fermentation and biocatalysis for steroids production as well as a chapter on the medical use of glucocorticoids in cancer patients Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Microbial Steroids Methods and Protocols Second Edition serves as an ideal reference source for laboratory and industrial professionals as well as for students in a wide array of biological disciplines

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