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Neurosteroids Hubert Vaudry, Kazuyoshi Tsutsui, Thirty years ago the group of Baulieu and colleagues discovered that certain steroid hormones were present in higher amounts in the brain than in the plasma and also found that suppression of circulating steroids by adrenalectomy and castration did not affect the concentration of pregnenolone dehydroepiandrosterone and their sulfate esters in the rat brain These seminal observations led to the concept that the brain in very much the same way as the adrenal cortex testis ovary and placenta was capable of synthesizing steroids These brain born steroids called neurosteroids have been found to exert a vast array of biological activities A number of steroidogenic enzymes have now been identified in the central nervous system by immunohistochemistry and in situ hybridization and the neuronal and hormonal mechanisms regulating the biosynthesis of neurosteroids have been partially elucidated The aim of this Research Topic is to celebrate three decades of research on neurosteroids by gathering a bouquet of review papers and original articles from leading scientists in the flourishing field of neurosteroids

Doping in Sports Detlef Thieme, Peter Hemmersbach, 2009-12-18 Doping in sports and the fight against it has gained increasing attention in recent years The pharmacological basis for a possible performance enhancement in competitive sport through the administration of prohibited substances and methods as well as the analytical disclosure of such practices are comprehensively covered in 21 contributions by outstanding and distinctive authors

Mass Spectra and GC Data of Steroids Hugh L. J. Makin, David James Hamilton Trafford, Joanna Nolan, 1998 This is the most comprehensive collection of mass spectral data for steroids available today It contains some 2 500 newly measured EI mass spectra of androgens and estrogens and their derivatives trimethylsilyl ethers O methyloximes and acetates Each spectrum is accompanied by the structure systematic and trivial names retention index molecular formula molar mass CAS number and sample source of the steroid with all data obtained using the same mass spectrometer under identical chromatographic and mass spectrometric conditions Steroids are of considerable therapeutic importance and the collection will thus be of particular interest to the pharmaceutical industry as well as an invaluable data source for chemists and biochemists involved in drug development drug screening and clinical toxicology endocrinologists natural products chemists and mass spectroscopists

Mass Spectra of Androstanes, Oestrogens and Other Steroids (Specdata) Michael Spiteller, Hugh L. J. Makin, 2001-01-09 The collection contains 2 500 EI mass spectra of androgens and estrogens and their trimethylsilyl O methoxyoxime and acetal derivatives Each spectrum is accompanied by the structure and trivial name molecular formula molecular weight nominal mass and base peak All spectra of androgens and estrogens have been obtained on the same mass spectrometer under identical conditions Steroids are of considerable therapeutic importance and the collection is thus of particular interest to the pharmaceutical industry This collection is an invaluable source of data to chemists and biochemists involved in drug development drug screening and clinical toxicology as well as to endocrinologists natural products chemists and mass spectroscopists Additional information li Chemical structur

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Steroid Analysis Hugh L. J. Makin, D.B. Gower, B. Kirk, 2013-06-29 reviews of the first edition this is an excellent comprehensive book and can be highly recommended to those who want an up to date reference on steroid analysis Analyst

Modern Methods of Steroid Analysis Erich Heftmann, 2012-12-02 Modern Methods of Steroid Analysis reviews modern methods of steroid analysis such as liquid column chromatography mass spectrometry and gas chromatography Topics covered include qualitative and quantitative analysis of plant sterols by gas liquid chromatography Raman spectroscopy of steroids nuclear magnetic resonance and applications of lanthanide shift reagents A computerized method for rapid comparison and retrieval of infrared spectral data is also described This volume is comprised of 22 chapters and begins with an analysis of hormonal steroids using liquid column chromatography followed by a discussion on the separation of insect molting hormones using high pressure liquid chromatography The reader is methodically introduced to the application of gradient elution and thin layer chromatography to the analysis of corticosteroids and 17 ketosteroids as well as some aspects of mass spectrometry in steroid analysis Subsequent chapters explore other methods such as optical rotatory dispersion and circular dichroism along with radioisotope techniques In particular the radioimmunoassay of plasma steroid hormones and plasma aldosterone is considered This book should be of interest to biochemists

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