



# Steroid Protein Interactions

**R. J. B. King, W. I. P. Mainwaring**



## **Steroid Protein Interactions:**

*Steroid-Protein Interactions* Ulrich Westphal, 2012-12-06 This is the story of steroid protein interactions as one investigator sees it Following the general concept of this monograph series it emphasizes the results and interpretations obtained in the author's laboratory and is therefore a subjective account Recognizing how ever that the discussion of the subject would be incomplete if the material were limited to one scientist's work the essential achievements of other investigators have been incorporated An effort has thus been made to give a balanced presentation and to enable the reader to see in perspective the varied facets of the interactions between steroids and proteins Since this is the first comprehensive treatment of the topic it seems appropriate to go to the roots and try to find out how it all started The first chapters therefore take the reader to the laboratories of those who very early conceived the significance of the attachment of dyes drugs and other conspicuous molecules to those colloids called proteins The discovery of the steroid hormones set the stage for meaningful investigation of their interaction with proteins of various origins and functions a process which is continuing today with increasing vigor

*Steroid-Protein Interactions II* Ulrich Westphal, 2012-12-06 [Steroid-protein interactions : basic and clinical aspects : Second International Symposium on Binding Proteins](#) Roberto Frairia, 1988 **Steroid Protein Interactions** H. Leon Bradlow, International Symposium on Binding Proteins (2, 1987, Torino), Italian Cancer Society, Italian Endocrine Society, University of Turin, 1988 **Steroid-protein Interactions** J. Victor Baldrige, 1971 **Steroid-Cell Interactions** R. J. B. King, W. I. P. Mainwaring, 2014-05-20 *Steroid Cell Interactions* describes the processes involved in the intracellular binding of steroids and related compounds in mammalian cells Serum binding proteins and steroid immunoglobulin interaction are also discussed along with the relationship of these binding processes to the biological action of the steroid This book consists of 10 chapters and begins by presenting an elementary account of the factors contributing to the interaction between a steroid hormone and another molecule The discussion then turns to the three types of methods used to study the interaction between steroids and tissue receptors cell fractionation autoradiography and the separation of specifically and non specifically bound steroids The next chapter deals with the metabolism of steroid hormones in relation to their binding and mechanism of action focusing on testosterone and progesterone The reader is also introduced to the intracellular binding of androgens glucocorticoids mineralocorticoids and estrogens and to how binding is related to biological activity The final chapter reviews the clinical and immunological data relevant to steroid protein binding This text will be of interest to students and practitioners of biology biochemistry and physiology

**Protein Interactions** Jianfeng Cai, Rongsheng Wang, 2012-03-16 Protein interactions which include interactions between proteins and other biomolecules are essential to all aspects of biological processes such as cell growth differentiation and apoptosis Therefore investigation and modulation of protein interactions are of significance as it not only reveals the mechanism governing cellular activity but also leads to potential agents for the treatment of various diseases The objective of this book is to highlight some of the latest

approaches in the study of protein interactions including modulation of protein interactions development of analytical techniques etc Collectively they demonstrate the importance and the possibility for the further investigation and modulation of protein interactions as technology is evolving Research on Steroids M. Finkelstein,A. Kloppe,r,C. Conti,2013-10-22 Research on Steroids contains the proceedings of the Fourth Meeting of the International Study Group for Steroid Hormones The papers explore the production chemical characterization and metabolism of steroid hormones and their interactions with proteins Topics range from the action of estradiol in vitro to water soluble metabolites of estrogens transport of steroids by proteins and immunological aspects of steroid hormones The binding of steroids by tissue proteins is also discussed along with the use of specific plasma proteins for the determination of steroids This volume is comprised of 38 chapters and begins with an overview of the general aspects of steroid protein interaction followed by a discussion on quantitative studies of steroid binding proteins aromatization of testosterone by human placenta enzymes relationship between plasma binding and 5a reduction of testosterone cortisol binding capacity of plasma transcortin in subjects treated with various anabolic steroids and plasma testosterone binding capacity and estrogen excretion in normal and pathological pregnancies Subsequent chapters deal with the interaction between estrogenic and carcinogenic substances in the rat mammary gland influence of steroid production on serum albumin in Cushing s syndrome and nuclear estradiol binding proteins in the uterus This book will be of interest to biochemists biologists and physiologists **Plasma Protein Turnover** Romano Bianchi,1976-06-18

**STEROID-PROTEIN INTERACTIONS.** ULRICH F. WESTPHAL,LOUISVILLE UNIV KY.,1962 Studies on Sprague Dawley rats have shown that the high affinity corticosteroid binding activity of serum increases after adrenalectomy or hypophysectomy This increase becomes apparent between the first and second day after adrenalectomy goes up to approximately twice the normal binding activity and remains at this level for at least 3 weeks Injection of large doses of corticosterone into the adrenalectomized rat decreases the corticosteroid binding activity to the same low level as observed in a normal rat after injection of the same dose of corticosterone A species specificity was demonstrated the binding protein in rat serum was found to bind corticosterone more firmly than cortisol whereas the opposite relationship was observed for human transcortin Electrophoretic studies showed the corticosteroid binding protein in rat serum to be an alpha globulin Author Report - US Army Medical Research Laboratory Army Medical Research Laboratory,1965 Molecular Structure and Biological Activity of Steroids Martin Bohl,2018-01-18 Molecular Structure and Biological Activity of Steroids focuses on the identification of steroid structural features that control particular biological effects Steroid geometry plays a critical role in steroid activity therefore the results of X ray crystallographic NMR spectroscopic and theoretical studies on structure activity relationships form an integral part of the book Well established observations and proposed models are presented summarizing knowledge of molecular features e g steroid backbone structures side chain constitutions substitution sites configurations hydrogen bonding patterns that can affect steroid action The book also provides overviews about recent

progress in various frontier fields of steroid research including such areas as sex steroids glucocorticoids aromatase inhibitors vitamin D metabolites brassinosteroids neuromuscular blocking agents and cardiotonic steroids Molecular Structure and Biological Activity of Steroids is a must have resource for biochemists pharmacologists endocrinologists biophysicists and others actively involved in steroid research Hormonal Steroids V. H. T. James, J. R.

Pasqualini, 2013-10-22 Hormonal Steroids presents the proceedings of the Sixth International Congress on Hormonal Steroids held in Jerusalem Israel in September 1982 The book covers a wide range of topics on the field of hormonal steroids research The topics discussed include the history of steroid protein interaction enzyme induction by estrogen steroids and the immune system correlative morphological and biochemical investigations on the stromal tissue of the human prostate analysis of intact steroid conjugates by secondary ion mass spectrometry including fabms and by gas chromatography and the role of lipoproteins in steroidogenesis by human luteinized granulosa cells in culture Biochemists pathologists pharmacologists and medical and pharmaceutical researchers will find the book a good source of insight Steroid-protein Interactions Ulrich

Westphal, Frank De Venuto, 1965 Studies on the binding of progesterone to alpha 1 acid glycoprotein were continued A decreasing effect of traces of heavy metals especially Fe on the binding affinity was observed Complete deionization of the test system is necessary Purification of human corticosteroid binding globulin CBG by DEAE cellulose chromatography and hydroxylapatite adsorption procedures resulted in an overall concentration of about 700 fold Application of similar chromatographic techniques including sephadex G 200 fractionation to rabbit serum yielded preparations that were purified approximately 2000 fold Sera of man monkey rat rabbit and guinea pig were freed of endogenous corticosteroids by sephadex filtration at 45C The binding affinities of these sera were then determined by multiple equilibrium dialysis at five concentrations each of cortisol corticosterone and progesterone at 4C and 37C Concentrations of corticosteroid binding sites and their association constants were determined Author **Molecular Aspects of Medicine** H. Baum, J. Gergely, B. L.

Fanburg, 2013-10-22 Molecular Aspects of Medicine Volume 7 discusses diseases such as urolithiasis Another term for this disease is calculosis Urolithiasis occurs when stones are formed in areas such as the biliary salivary or renal systems but it is found more often in the urinary tract The epidemiology and etiology of the disease are extensively covered in the book The second chapter focuses on the cell surface of healthy and disease infected cells Topics such as the plasma membrane the extracellular matrix and cell culture and transformation are also covered in the said chapter The third chapter of the book is about the serum steroid transport proteins This chapter discusses the biochemistry and clinical significance of the steroid binding proteins albumin and different binding globulins The fourth chapter covers the physiology and pharmacology of emesis The book concludes with a discussion on the mechanisms of pain and opioid induced analgesia The text can be a useful tool for doctors medical technologists students and researchers in the field of medicine *Receptors and Hormone Action* Bert O'Malley, Lutz Birnbaumer, 2013-10-22 Receptors and Hormone Action Volume II is part of a multivolume series

that summarizes advances in the field of hormone action The articles contained in these books are oriented toward a description of basic methodologies and model systems used in the exploration of the molecular bases of hormone action and are aimed at a broad spectrum of readers including those who have not yet worked in the field as well as those who have considerable expertise in one or another aspect of hormone action The book opens with a chapter on the relationship between steroid hormone receptor binding and biologic response This is followed by separate chapters on conformational forms of the estrogen receptor the relationship of early responses of the cell to estrogen to DNA synthesis the role of receptors in the anabolic action of androgens and biology of progesterone receptors Subsequent chapters deal with the molecular structure and analysis of progesterone receptors the regulation of gene expression by glucocorticoid hormones studies of the aldosterone receptor in the adrenalectomized rat kidney and existence of gonadal steroid receptors in brain and pituitary tissue     **Steroid protein interactions** ,1987     *Spectral Data for Steroids* Michael Frenkel,K N

Marsh,1994-06-15 *Spectral Data for Steroids* provides a comprehensive compilation of spectral data for 211 steroids The compounds are arranged on the basis of their molecular structures     **Proceedings of the Twenty-seventh Annual Symposium on Sea Turtle Biology and Conservation** Alan F. Rees,2008     *Research Awards Index* ,

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