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## Recent findings on the impact of ErbB receptors status on prognosis and therapy of head and neck squamous cell carcinoma

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Head and neck squamous cell carcinoma (HNSCC) is the sixth most common cancer type. has often an aggressive course and is poorly responsive to current therapeutic approaches, so that 5-year survival rates for patients diagnosed with advanced disease is lower than 50%. The Epidermal Growth Factor Receptor (EGFR) has emerged as an established oncogene in HNSCC. Indeed, although HNSCCs are a heterogeneous group of cancers which differ for histological, molecular and clinical features, EGFR is overexpressed or mutated in a percentage of cases up to about 90%. Moreover, aberrant expression of the other members of the ErbB receptor family, ErbB2, ErbB3 and Erb84, has also been reported in variable proportions of HINSCCs. Therefore, an increased expression/activity of one or multiple ErbB receptors is found in the vast majority of patients with HNSCC. While aberrant Erb8 signaling has long been known to play a critical role in tumor growth, angiogenesis, invasion, metastatization and resistance to therapy, more recent evidence has revealed its impact on other features of cancer cells' biology, such as the ability to evade antitumor immunity. In this paper we will review recent findings on how ErbB receptors expression and activity, including that associated with non-canonical signaling mechanisms, impacts on prognosis and therapy of HNSCC.

head and neck squamous cell carcinoma, EGFR, ErbB receptors, Cetuximab, immune checkpoint inhibitors

#### 1. Introduction

Head and neck (HN) cancers include a heterogeneous group of cancers which differ for histological, molecular and clinical features (1-3). More than 90% of HN cancers are squamous cell carcinomas (HNSCCs) arising from the mucosal epithelium of the oral cavity, pharynx and larynx, while much less common HN subtypes originate from the salivary glands, sinuses, muscles or nerves in the head and neck! (2-4).

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# **Receptors Recent Findings**

Jessica J Manson

#### **Receptors Recent Findings:**

Recent Advances in Cellular and Molecular Aspects of Angiotensin Receptors Mohan K. Raizada, M. Ian Phillips, Colin Sumners, 2013-06-29 Scientific advances over the past two decades have afforded unprecedented oppor tunities to understand the structure and function of receptors receptor ligand interactions and receptor signaling. The extent ofprogress in this area is underscored by the recent Nobel Prize for Medicine and Physiology to Alfred Gilman and Martin Rodbell both of whose work in understanding receptorlG protein interactions has redefined the way in which we think of how hormones and neurochemicals exert their activity on cellular function This book is replete with examples of current research approaches to help us better understand the cellular roles in which the renin angiotensin system and the angiotensin receptors participate Clearly defining the structure of angiotensin receptor subtypes is an important first step in clarifying the mechanisms by which these receptors take part in cellular function However the chapters within this book range far beyond structural studies and encompass research on tissue specific expression of the angiotensin receptor subtypes the genetic regulation of these receptors and the unique function of various angiotensin subtypes in different organ systems such as the brain the reproductive system adipose tissue the heart and the kidneys Cell Surface Receptors—Advances in Research and Application: 2013 Edition, 2013-06-21 Cell Surface Receptors Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Neuropilins The editors have built Cell Surface Receptors Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Neuropilins in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cell Surface Receptors Advances in Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Recent Advances in Psychiatry from Psycho-Neuro-Immunology Research: Autoimmunencephalitis, Autoimmune-Encephalopathy, Mild Encephalitis Karl Bechter, David Brown, Souhel Najjar, 2019-08-12 Growing evidence derived from cerebrospinal fluid CSF neuropathological imaging genetic and epidemiological studies link neuroinflammation and immune dysregulation to a subset of individuals with a variety of severe mental disorders SMDs including affective and non affective psychotic disorders Further the recent discoveries of neuronal surface antibodies NSAs in autoimmune encephalitis AE presenting with diverse neuropsychiatric disorders such as psychosis and cognitive decline among many others provides further support to the notion that CNS autoimmunity and neuroinflammation can contribute to the neurobiology of psychiatric disturbances Further these immune mechanisms may contribute to a subset of patients currently

diagnosed as having treatment resistant SMDs such as schizophrenia and major depressive disorder Additionally mounting data indicate that various infections can serve as an immunological trigger of aberrant immune responses presumably by causing release of excess neural antigen thereby giving rise to NSAs or aberrant immune cellular responses to give rise to primary or secondary psychiatric disorders such as schizophrenia and those associated with AE respectively Collectively these findings support the mild encephalitis hypothesis of SMD The significant overlap among AE associated psychosis systemic autoimmune disorder associated psychosis and psychotic disorders associated with pathological processes involving inflammation and immune dysregulation has also prompted some authors to adopt the term autoimmune psychosis AP This term reflects that this psychosis subtype is mechanistically linked to complex neuroimmune and inflammatory signalling abnormalities that can be responsive to early immunomodulatory treatment It also suggests that a subset of AP might represent an incomplete or forme fruste subtype of AE presenting with dominant or pure psychiatric symptoms mimicking primary psychiatric illnesses Because data indicate that delayed diagnosis and treatment may lead to permanent sequelae early recognition of AP utilizing neurodiagnostic workup e g CSF analysis neuroimaging and EEG and its early treatment with appropriate immunotherapy are paramount to a meaningful recovery. This eBook will provide an overview of the current knowledge and research areas from epidemiology risk factors and diagnosis to the management of these conditions in this rapidly emerging field helping to bridge the gaps in knowledge that currently exist in the disciplines of Psychiatry Neurology Peptide Receptors—Advances in Research and Application: 2013 Edition ,2013-06-21 Peptide and Neuroimmunology Receptors Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Formyl Peptide Receptors The editors have built Peptide Receptors Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Formyl Peptide Receptors in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Peptide Receptors Advances in Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Peptide Receptors—Advances in Research and Application: 2012 **Edition**, 2012-12-26 Peptide Receptors Advances in Research and Application 2012 Edition is a Scholarly Editions eBook that delivers timely authoritative and comprehensive information about Peptide Receptors The editors have built Peptide Receptors Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Peptide Receptors in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Peptide Receptors Advances in Research and

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The Medical Basis of Psychiatry S. Hossein Fatemi, Paula J. Clayton, 2016-03-17 Four years have passed since the last edition 3rd of this book was published In the intervening years several reviews of this book have provided highly encouraging remarks about the value of this book in transmitting information on classification and treatment of psychiatric disorders to the audience We are proposing to revise all chapters with an eye on accuracy and ease of use and this is an especially timely endeavor with the upcoming publication of the Diagnostic and Statistical Manual V All the appropriate new information on biology etiology diagnosis and treatment of psychiatric disorders will be added to the current proposed edition It is our goal to recruit the same authors if possible who contributed to the previous edition While all chapters will be updated see TOC those marked by asterisks will be the most likely to undergo more revision Psychiatry has emerged as a burgeoning scientific field with major advances in etiology and treatment of several disorders Just as there was excitement in the anatomic advances that took place a hundred years ago when Emil Kraepelin and his collaborators took on the enormous task of classification of psychiatric disorders based on rational scientific thinking new advances in genetics biochemistry neuroanatomy and pharmacotherapy of mental disorders have brought us even closer to a better understanding of complex disorders like schizophrenia bipolar disorder depression and even autism The major goal of the previous edition of this classic book was to update the busy clinician psychiatric resident and medical student with the most up to date information on etiology diagnosis and treatment of psychiatric disorders This goal remains the focus of the fourth edition of this book In this updated and expanded edition the reader will be provided with the most contemporary information and literature supported by a close survey of the field This new edition of this classic title with its focus on biologic and medical aspects of psychiatry will continue to be of significant help to all interested in the scientific practice of psychiatry Cannabinoid Receptors—Advances in Research and Application: 2013 Edition, 2013-06-21 Cannabinoid Receptors Advances in Research and Application 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Cannabinoid CB2 Receptor in a concise format The editors have built Cannabinoid Receptors Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Cannabinoid CB2 Receptor in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Cannabinoid Receptors Advances in Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at http www ScholarlyEditions com Steroid Receptors: Advances in Research and Application: 2011 Edition

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Receptors Recent Findings: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Receptors Recent Findings: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Receptors Recent Findings: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Receptors Recent Findings: Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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