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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 ErbB4, has also been reported in variable proportions of HNSCCs. Therefore, an increased expression/activity of one or multiple ErbB receptors is found in the vast majority of patients with HNSCC. While aberrant ErbB 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.

KEYWORDS

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 neck¹ (2–4).

¹ <https://www.cancer.gov/types/head-and-neck/head-neck-fact-sheet#:~:q=hn>

Receptors Recent Findings

F Rizvi



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 opportunities to understand the structure and function of receptors receptor ligand interactions and receptor signaling The extent of progress 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 receptor/G 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

Recent Advances in Psychiatry from Psycho-Neuro-Immunology Research: Autoimmune encephalitis, 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 and Neuroimmunology 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>

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Function K.W.A. Wirtz,Lester Packer,J.Å. Gustafsson,A.E. Evangelopoulos,J.P. Changeux,2012-12-06 A NATO Advanced Study Institute on New Developments in Lipid Protein Interactions and Receptor Function was held on the Island of Spetsai Greece from August 16 27 1992 This Institute was organized to bring together researchers in the field of membrane organization and dynamics with those actively involved in studies on receptor function signal transduction mechanisms and gene regulation 2 Presentations and discussions focussed on the regulation of intracellular Ca levels on the second

messengers derived from inositol lipids and on the specific phospholipase C isozymes involved in these processes A major focus was on G proteins and the effect of lipid anchors on their function These principles of regulation were further discussed in the context of receptors for acetylcholine lysophosphatidic acid and low density lipoproteins In addition various aspects of the genomic regulation of cell growth and differentiation by transcription factors were presented These topics were put into perspective by discussing the most recent developments in lipid protein interactions protein insertion into membranes membrane lipid organization and lipid dynamics as mediated by phospholipid transfer proteins This book presents the content of the major lectures and a selection of the most relevant of the most important topics posters These proceedings offer a comprehensive account presented during the course of the Institute The book is intended to make these proceedings accessible to a large audience

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The Dopamine Receptors Kim Neve,2009-12-01 As sites of action for drugs used to treat schizophrenia and Parkinson s disease dopamine receptors are among the most validated drug targets for neuropsychiatric disorders Dopamine receptors are also drug targets or potential targets for other disorders such as substance abuse depression Tourette s syndrome and attention deficit hyperactivity disorder Updated from the successful first edition The Dopamine Receptors serves as a reference work on dopamine

receptors while also highlighting the areas of research that are most active today To achieve this goal authors have written chapters that set a broad area of research in its historical context rather than focusing on the research output of their own laboratories

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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

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