Progress in Cell Cycle Research

Volume 5

Cell cycle regulators as therapeutic targets

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Progress In Cell Cycle Research

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Progress In Cell Cycle Research:

Progress in Cell Cycle Research Laurent Meijer,Silvana Guidet,Michel Philippe,2012-12-06 The Progress in Cell Cycle Research series has been conceived to serve as a collection of reviews on various aspects of a fast growing biology field the cell division cycle These reviews do not pretend to cover all aspects of cell cycle regulation and mechanisms but rather focus on a few topics of particular interest in the recent literature This third volume starts with a broad overview of the diversity of ways by which viruses subdue their host cell cycle chapter 1 Of particular interest in this area is the case of HN which has recently been extensively investigated chapter 2 Although most of our understanding of cell cycle regulation derives from work performed in yeast and animal cells plant models reviewed in chapter 3 for one of the best studied example Arabidopsis are starting to contribute significantly to the cell cycle general picture In mammals the regulation of cell division of two types of tissues the intestine chapter 4 and the developing muscle chapter 5 are investigated in an interesting physiological context Cell division is accompanied by a number of morphological changes One of them organelle transport is starting to be better understood chapter 6 The next few chapter summarise our knowledge of some essential regulators of the cell cycle A still intriguing enzyme casein kinase 2 is reviewed in detail in chapter 7 Some of the most studied cell cycle regulators are certainly the CKI s cyclin dependent kinases inhibitors chapter 8 **Progress in Cell Cycle Research** S. Guidet,S.V. Meijerink,H.Y.L. Tung,2012-12-06 Progress in Cell Cycle Research is a new annual series designed to be the source for up to date research on this rapidly expanding field Review articles by international experts examine various aspects of cell division regulation from fundamental perspectives to potential medical applications Researchers as well as advanced undergraduate and graduate students in cell biology biochemistry and molecular biology will benefit from this series Progress in Cell Cycle Research Laurent Meijer,Armelle Jézéquel,Bernard Ducommun,2012-12-06 The Progress in Cell Cycle Research series is dedicated to serve as a collection of reviews on various aspects of the cell division cycle with special emphasis on less studied aspects We hope this series will continue to be helpful to students graduates and researchers interested in the cell cycle area and related fields We hope that reading of these chapters will constitute a point of entry into specific aspects of this vast and fast moving field of research As PCCR4 is being printed several other books on the cell cycle have appeared ref 1 3 which should complement our series This fourth volume of PCCR starts with a review on RAS pathways and how they impinge on the cell cycle chapter 1 In chapter 2 an overview is presented on the links between cell anchorage cytoskeleton and cell cycle progression A model of the Gl control in mammalian cells is provided in chapter 3 The role of histone acetylation and cell cycle contriol is described in chapter 4 Then follow a few reviews dedicated to specific cell cycle regulators the 14 3 3 protein chapter 5 the cdc7 Dbf4 protein kinase chapter 6 the two products of the pI6 CDKN2A locus and their link with Rb and p53 chapter 7 the Ph085 cyclin dependent kinases in yeast chapter 9 the cdc25 phophatase chapter 10 RCCI and ran chapter 13 The intriguing phosphorylation dependent prolyl isomerization process and its function

in cell cycle regulation are reviewed in chapter 8 *Progress in Cell Cycle Research* Laurent Meijer,Silvana Guidet,Lee Vogel,1996-11-30 Now in its second year Progress in Cell Cycle Research was conceived to serve as an up to date introduction to various aspects of the cell division cycle Although an annual review in any field of scientific investigation can never be as current as desired especially in the cell cycle field we hope that this volume will be helpful to students to recent graduates considering a de1liation in subject and to investigators at the fringe of the cell cycle field wishing to bridge frontiers An instructive approach to many subjects in biology is often to make comparisons between evolutionary distant organisms If one is willing to accept that yeast represent a model primitive eukaryote then it is possible to make some interesting comparisons of cell cycle control mechanisms between mammals and our little unicellular cousins By and large unicellular organisms have no need for intracellular communication With the exception of the mating phenomenon in S cerevisiae and perhaps some nutritional sensing mechanisms cellular division of yeast proceeds with complete disregard for neighbourly communication Multicellular organisms on the other hand depend entirely on intracellular communication to maintain structural integrity Consequently elaborate networks have evolved to either prevent or promote appropriate cell division in multicellular organisms Yet as described in chapter two the rudimentary mechanisms for fine tuning the cell division cycle in higher eukaryotes are already apparent in yeast **Progress in Cell Cycle Research** Laurent Meijer,Silvana Guidet,Michel Philippe,1997-12-31 The latest volume in this highly regarded series covers current advances in the fast moving field of cell cycle research by gathering reviews otherwise scattered throughout the literature Contributions encompass fields from cell and molecular biology to biochemistry *Progress in Cell Cycle Research* Laurent Meijer,Silvana Guidet,H. Y. Lim tung,1995 *Progress in Cell Cycle Research* Laurent Meijer (biologiste).),Armelle Jézéquel,Michel Roberge (biochimiste).),2003 Biomedical Index to PHS-supported Research ,1988 **Progress in Experimental Tumor Research** Freddy Homburger,1960 **Research Awards Index** ,1979 **Asymmetric Cell Division in Development, Differentiation and Cancer** Jean-Pierre Tassan,Jacek Z. Kubiak,2017-04-12 This book provides readers with an overview of the frequent occurrence of asymmetric cell division Employing a broad range of examples it highlights how this mode of cell division constitutes the basis of multicellular organism development and how its misregulation can lead to cancer To underline such developmental correlations readers will for example gain insights into stem cell fate and tumor growth In turn subsequent chapters include descriptions of asymmetric cell division from unicellular organisms to humans in both physiological and pathological conditions The book also illustrates the importance of this process for evolution and our need to understand the background mechanisms offering a valuable guide not only for students in the field of developmental biology but also for experienced researchers from neighboring fields Biomedical Index to PHS-supported Research: pt. A. Subject access A-H ,1992 Progress in Cell Cycle Control Research K. L. Chen,2008 A cell cycle is an ordered and highly controlled set of events that leads to cell growth and proliferation Cell cycle progression is driven by changes in the substrate

specificity and subcellular localisation of cyclin dependent kinases Cdks which in turn are modulated by a collection of cyclins Cdk activating and Cdk inhibiting kinases and Cdk inhibitors CDKIs Regulation of the cell cycle is critical for the normal development of multicellular organisms and dysregulation of cell cycle could lead to cancer a disease where normal cell growth and behaviour are lost Cell cycle regulation is tightly controlled by both synthesis and degradation of short lived proteins such as cyclins and CDKIs and degradation of these proteins is mainly mediated by the ubiquitin dependent proteasome pathway This book presents the latest research in the field from around the globe Research and Development in Progress ,1963-11 **The Cell in Development and Inheritance** Edmund Beecher Wilson,1896 This work has been called the single most influential treatise on cytology of the 20th century **Research and Development in Progress** U.S. Atomic Energy Commission. Technical Information Center,U.S. Atomic Energy Commission. Division of Biomedical and Environmental Research,1972 **Anatomischer Anzeiger** ,1897 Current Serials Received British Library. Document Supply Centre,2006 *Consequences of Cell Cycle Perturbations in Human Glioma Cells* Nalin Gupta,1996 **Current Cancer Research on Cell Differentiation, Tumor Growth, Invasion, and Metastasis** ,1981

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