



Association of interleukin 1 beta (*IL-1β*) polymorphism with mRNA expression and risk of non small cell lung cancer[☆]

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ABSTRACT

Introduction: Interleukin 1 beta (*IL-1β*), a key proinflammatory cytokine encoded by the interleukin 1 beta gene, has been associated with chronic inflammation and plays an important role in lung inflammatory diseases including lung cancer. Elevated levels of Interleukin 1 proteins, in particular interleukin 1 beta greatly enhance the intensity of the inflammatory response.

Aim: To study the role of interleukin 1 beta-31C > T and -511 T > C polymorphism in the pathogenesis of non small cell lung cancer (NSCLC). **Materials and methods:** One hundred and ninety non small cell lung cancer patients and 200 healthy age, sex, smoking and dwelling matched controls were used for polymorphic analysis by polymerase chain reaction–restriction fragment length polymorphism (PCR-RFLP) followed by sequencing. Normal tissues of 48 histopathologically confirmed non small cell lung cancer patients were taken for mRNA expression analysis. Quantitation of interleukin 1 beta was carried out by quantitative real time PCR.

Result: The T/T genotype of interleukin 1 beta-31 gene was significantly associated with increased risk of NSCLC [(P = 0.001, OR = 2.8 (95%CI 1.52–5.26)]. The interleukin 1 beta –511 T > C does not show any difference between the NSCLC and control group (P = 0.3, OR = 0.72

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Newman and Carranza's Clinical Periodontology for the Dental Hygienist Michael G. Newman, Gwendolyn Essex, Lory Laughter, Satheesh Elangovan, 2020-03-24 Textbook and Academic Authors Association TAA Most Promising New Textbook Award Winner 2024 The complete health focused approach makes this a must have instructional resource to support you throughout your Dental Hygiene educational program and beyond Based on the trusted content in Newman and Carranza's Clinical Periodontology the most widely used periodontal textbook in the world this resource provides the most up to date complete and essential information The broad range of content covers everything from the biology of the periodontium how it is structured and the functions it serves the new classification of periodontal disease the link between periodontal disease and systemic health and more An extensive clinical section contains a complete guide to everything from procedure instrumentation to patient management at the point of care Full color photos illustrations radiographs show how to perform periodontal procedures Case based practice questions and skill evaluation checklists promote board exam readiness The clear instruction and health focused approach provides support throughout the Dental Hygiene program and beyond Online student and educator support on Evolve Dental hygiene emphasis and relevance provides solid foundational content Comprehensive topic coverage focuses on the translation of the science to evidence based practice and clinical decision making Extensive full color photos and illustrations clearly demonstrate core concepts and reinforce important principles Case based clinical scenarios incorporated throughout the book mimic the patient case format used in credentialing exams Many new and important chapters on periimplantitis resolving inflammation evidence based decision making and critical thinking Robust art program of clinical images charts graphs and unique illustrations enhances engagement The most complete atlas of periodontal pathology ever offered for the dental hygienist Key information and highlights presented as call out boxes

Multifaceted Role of IL-1 in Cancer and Inflammation Manisha Singh, 2023-06-07 Multifaceted Role of IL 1 in Cancer and Inflammation summarizes the existing literature and discusses future perspectives about the role of IL 1 in immune suppression cancer progression angiogenesis and resistance to immunotherapies The book presents mechanisms to overcome IL 1 mediated immune suppression in tumor microenvironment and covers topics on the source of IL 1 in the tumor microenvironment IL 1 mediated downstream pathway mechanism of IL 1 mediated immune suppression in cancer and its effect on immunotherapy of cancer Those topics help readers understand the effect of IL 1 on cancer immunopathology and immunotherapy and provide them with broader concepts to develop therapies for IL 1 enrichment tumors This is a valuable source for cancer researchers clinicians and other members of the biomedical field who wants to learn more about mechanisms to improve outcome of cancer immunotherapies Presents a summary in the beginning of each chapter to help readers to find the needed information and understand the content easily Encompasses detailed schematic diagrams and illustrations throughout the content to explain the complex immune mechanisms discussed Discusses future perspectives in

all chapters to motivate researchers to work on emerging problems Includes contributions from internationally renown experts sharing their experiences on clinics and research Cytokine Gene Polymorphisms in Multifactorial Conditions Koen Vandebroek,2006-06-21 The literature on cytokine genetics is vast so vast that it is now practically beyond the time or logistical constraints of most scientists to successfully keep pace with it A compilation of the latest research Cytokine Gene Polymorphisms in Multifactorial Conditions brings together reviews and structures up to date information on polymorphism

Newman and Carranza's Clinical Periodontology E-Book Michael G. Newman, Henry Takei, Perry R. Klokkevold, Fermin A. Carranza, 2018-05-29 From basic science and fundamental procedures to the latest advanced techniques in reconstructive esthetic and implant therapy Newman and Carranza's Clinical Periodontology 13th Edition is the resource you can count on to help master the most current information and techniques in periodontology Full color photos illustrations and radiographs show you how to perform periodontal procedures while renowned experts from across the globe explain the evidence supporting each treatment and lend their knowledge on how to best manage the outcomes UNIQUE Periodontal Pathology Atlas contains the most comprehensive collection of cases found anywhere Full color photos and anatomical drawings clearly demonstrate core concepts and reinforce important principles UNIQUE Chapter opener boxes in the print book alert readers when more comprehensive coverage of topics is available in the online version of the text NEW Chapters updated to meet the current exam requirements for the essentials in periodontal education NEW Case based clinical scenarios incorporated throughout the book mimic the new patient case format used in credentialing exams NEW Additional tables boxes and graphics highlight need to know information NEW Virtual microscope on Expert Consult offers easy access to high resolution views of select pathology images NEW Two new chapters cover periimplantitis and resolving inflammation NEW Section on evidence based practice consists of two chapters covering evidence based decision making and critical thinking *Nutrition and Critical Care* L. Cynober, F. A. Moore, 2003-07 A complete state of the art manual on nutritional support for ICU patients the present book written by internationally renowned specialists addresses fundamental aspects of the pathophysiological response to injury as well as practical issues of nutritional care New features include an analysis of gene polymorphism and its possible consequences for the survival of traumatized patients A better understanding of this process could become a basis for defining new nutritional strategies Hence the discussion on indications for immune enhancing diets Of special interest is the research on copathologies i e obesity which can change the prognosis of ICU patients who thus require specific nutritional support Entirely new is the merging of the recommendations of international and national societies e g ASPEN ESPEN first realized for this publication This book is a basic tool for any professional in the field of nutritional care for ICU patients intensivists surgeons pharmacists dieticians and PhD students

Cancer Immunology Nima Rezaei, 2014-12-02 Cancer Immunology is intended as an up to date clinically relevant review of cancer immunology and immunotherapy This volume is focused on immunopathology of cancers The interactions

between cancerous cells and various components of the innate and adaptive immune system are fully described. The principal focus however is very much on clinical aspects, the aim being to educate clinicians in the clinical implications of the most recent research and new developments in the field. Over the past decade, understanding of the interactions between the immune system and cancerous cells has increased markedly, leading to the development of combinatorial immunotherapeutic strategies to combat cancer. This translational, clinically oriented book will be of special value to clinical immunologists, hematologists and oncologists.

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Asian Aspects of Periodontology and Implantology Dr. Shing-zeng Dung, 2017-10-01. To determine the most suitable periodontal and dental implant therapies for the Asian, this book explores the cultural differences and the diversity in body constitution between the East and the West. Through providing professional literature reviews and the analyses of clinical cases, this book presents the most reliable results conducted by experts and specialist teams in various fields.

Translational Research in Traumatic Brain Injury Daniel Laskowitz, Gerald Grant, 2016-04-21. Traumatic brain injury (TBI) remains a significant source of death and permanent disability, contributing to nearly one third of all injury-related deaths in the United States and exacting a profound personal and economic toll. Despite the increased resources that have recently been brought to bear to improve our understanding of TBI, the developme

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Psychoneuroimmunology, 2011-10-10. Psychoneuroimmunology is the study of interactions among behavioral, neural, and endocrine and immunologic processes of adaptation. These two volumes provide a clearly written, extensively referenced summary of some of the behavioral, neural, and endocrine regulators of immune responses and immunologically mediated disease processes, and of the behavioral and neuroendocrine effects of immune system activity. Several chapters expand upon topics reviewed in earlier editions of this series; most chapters cover active areas of research that have not previously been reviewed. As illustrated in this fourth edition, interdisciplinary research continues to provide evidence that the brain and immune system represent a single integrated system of defense. Fully revised and updated fourth edition of the classic reference. Provides a

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Microenvironment Alexander Birbrair, 2020-02-14 Revealing essential roles of the tumor microenvironment in cancer progression this book provides a comprehensive overview of the latest research on the role of interleukins in the tumor microenvironment Each chapter focuses on the various ways to target the tumor microenvironment by intervention in the interleukin biology including IL 1 IL 8 IL 21 IL 36 signaling and more Taken alongside its companion volumes Tumor Microenvironment The Role of Interleukins Part A updates us on what we know about various aspects of the tumor microenvironment as well as future directions This book is essential reading for advanced cell biology and cancer biology students as well as researchers seeking an update on research in the tumor microenvironment **Multiple Sclerosis: New**

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Inflammatory Disorders of the Nervous System Alireza Minagar,J. Steven Alexander,2007-10-28 A cutting edge review of the fundamental biological principles underlying the more common inflammatory disorders of the nervous system The authors provide extensive updates on the latest findings concerning the mechanisms of inflammation and introduce such new concepts and methodologies as endothelial and leukocyte microparticles and gene microarray technology to help explain important links between the central nervous system CNS and general inflammatory processes Among the diseases examined from an inflammatory perspective are multiple sclerosis acute disseminated encephalomyelitis optic neuritis transverse myelitis CNS vasculitis neuropsychiatric systemic lupus erythematosus Alzheimer s disease and Parkinson s disease The role of the immune system in neuroinflammation is also explored in such disorders as neurosarcoidosis HIV Associated dementia and HTLV associated neurological disorders [IL-1](#)

[Family Members in Health and Disease](#) Elizabeth Brint,Sarah L. Doyle,Thomas Kamradt,2019-12-23 **Carranza's Clinical Periodontology** Michael G. Newman,Henry Takei,Perry R. Klokkevold,Fermin A. Carranza,2011-02-14 The most widely used

periodontics text Carranza's Clinical Periodontology provides both print and online access to basic procedures as well as the latest in advanced procedures and techniques in reconstructive esthetic and implant therapy Not only does this book show how to do periodontal procedures it describes how to best manage the outcomes and explains the evidence supporting each treatment Written by leading experts Michael Newman Henry Takei Perry Klokkevold and Fermin Carranza along with a pool of international contributors this edition also discusses the close connection between oral health and systemic disease A new Expert Consult website includes the entire fully searchable contents of the book and takes learning to a whole new level with content updates videos a drug database and much more Comprehensive coverage describes all aspects of periodontics in a single volume including periodontal pathology the etiology of periodontal diseases the relationship between periodontal disease and systemic health treatment of periodontal diseases oral implantology supportive treatment and ethics legal and practical matters Problem solving scenario based learning opportunities use well documented case reports to help you learn both basic and advanced procedures and techniques Speed to competence is enhanced with access to print online and mobile platforms A unique approach combines evidence based decision making science transfer and classification nomenclature throughout every chapter A one of a kind Genetic Factors and Periodontal Disease chapter examines the role of genetic factors in gum disease In depth information serves as an excellent foundation in preparing for the National Board Dental Exam Expert Consult website offers fast reliable online access to advanced material videos an image collection a drug database interactive flash cards multiple choice test questions interactive references and Pathology Consult plus the entire contents of the book are fully searchable Find core information in the book additional advanced information is provided online Consult your book from any computer anywhere in the world for the entire life of this edition Keep current with regular updates of the latest periodontal news and information Follow links from biographical citations to the corresponding MEDLINE abstracts See a comprehensive library of pathology photos Coverage of the latest advances includes the emerging link between periodontal disease and systemic health Full color illustrations depict the newest developments in surgical technology A new Multidisciplinary Approach to Dental and Periodontal Problems chapter discusses the importance of collaborative care in the practice of periodontics Etiology of Periodontal Diseases Part 4 provides a more comprehensive background in periodontal anatomy physiology and pathogenesis

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