

1. Record Nr.	UNINA9910960835103321
Titolo	The future of supercomputing : an interim report / / Committee on the Future of Supercomputing, Computer Science and Telecommunications Board, Division on Engineering and Physical Sciences, National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, c2003
ISBN	0-309-16709-4 0-309-52675-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (58 p.)
Disciplina	004.1/1
Soggetti	Supercomputers - United States High performance computing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Executive summary -- 1. Introduction -- 2. Supercomputing past and present -- 3. Continuity and predictability -- 4. Future supercomputing and research -- 5. The role of government in supercomputing -- 6. Conclusion.
Sommario/riassunto	The Committee on the Future of Supercomputing was tasked to assess prospects for supercomputing technology research and development in support of U.S. needs, to examine key elements of context-the history of supercomputing, the erosion of research investment, the changing nature of problems demanding supercomputing, and the needs of government agencies for supercomputing capabilities-and to assess options for progress. This interim report establishes context-including the history and current state of supercomputing, application requirements, technology evolution, the socioeconomic context-to identify some of the issues that may be explored in more depth in the second phase of the study.

2. Record Nr.	UNINA9910956396903321
Titolo	Cigarette consumption and health effects / / George G. Chen, editor
Pubbl/distr/stampa	Hauppauge, N.Y., : Nova Science Publishers, Inc., 2013
ISBN	1-62257-775-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (243 p.)
Collana	Public health in the 21st century
Altri autori (Persone)	ChenGeorge G
Disciplina	613.85
Soggetti	Smoking - Health aspects Tobacco - Physiological effect
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- CIGARETTE CONSUMPTION AND HEALTH EFFECTS -- CIGARETTE CONSUMPTION AND HEALTH EFFECTS -- Library of Congress Cataloging-in-Publication Data -- Contents -- Preface -- The Impact of Cigarette Smoking on Health, an Unfolding Battle -- References -- Chapter 1: Tobacco Smoke and Breast Cancer Risk: Rapid Evolution of Evidence and Understanding in the Early 21st Century -- Abstract -- Introduction -- A. Active Smoking and Breast Cancer Risk -- Smoking Risk before First Birth Appears to Be the Critical Window for Exposure -- Smoking before First Birth and Breast Biology and Toxicology -- Smoking Only before First Pregnancy Versus Only after First Pregnancy -- Active Smoking and NAT2 Status -- Active Smoking Conclusions -- B. Secondhand Smoke and Breast Cancer Risk -- Misclassification of SHS Exposure and Breast Cancer Risk -- The Differences in Estimated Risk from Isolated Ever Exposure Versus Comprehensive Higher Exposure Measures -- Other Summarization of SHS Literature -- Secondhand Smoke Conclusions -- Overall Conclusions -- Acknowledgment -- Disclaimer -- References -- Chapter 2: Cigarette Smoking and the Risk of Breast Cancer - A Systematic Review and Meta-Analysis -- Abstract -- Introduction -- Methods -- Results -- Meta-Analysis on Various Measures of Active Smoking in Relation -- Amount Of Smoking -- Duration of Smoking -- Age Started Smoking -- By Menopausal Status of Breast Cancer -- By Smoking at Different Reproductive Period -- By Hormone Receptor Status of Breast Cancer -- Potential Effect Modification by Genotype --

Passive Smoking -- Conclusion -- References -- Chapter 3:  
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Smoking and Cervical Epithelial Carcinogenesis -- 2.1. Mechanisms of  
Action -- 2.2. Smoking and Cervical Immunology.  
Conclusion -- References -- Chapter 4: Association of Gene  
Polymorphisms with Lung and Colorectal Cancers in Relation to  
Smoking -- Abstract -- Introduction -- Metabolic Enzymes -- Gene  
Polymorphisms of Metabolic Enzymes and -- Lung Cancer Risk -- Gene  
Polymorphisms of Metabolic Enzymes -- and Colorectal Cancer Risk --  
DNA Repair Pathways -- Gene Polymorphisms of DNA Repair Pathways  
-- and Lung Cancer Risk -- Gene Polymorphisms of DNA Repair  
Pathways -- and Colorectal Cancer Risk -- References -- Chapter 5:  
The Effect of Cigarette Smoking on Progression in Different Laryngeal  
Lesions -- Abstract -- Introduction -- Patients and Methods -- Results  
-- Discussion -- Conclusion -- References -- Chapter 6: Impact of  
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Experimental Models -- Abstract -- Introduction -- The Noxious  
Effects of CS on Oral Tissues -- Smoking and Reproduction -- Effects of Smoking on  
Female Fertility -- Acknowledgments -- References -- Chapter 7:  
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Human Oral Mucosa and Intercellular Adhesion -- Smoke and  
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Prevalence of Metabolic Syndrome in Smokers -- Correlation between  
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- Effect on the Progression of Diabetic Nephropathy of Type 1 Diabetics  
-- Initiation of Nephropathy in Type 2 Diabetes Mellitus Due to Chronic Cigarette Smoking -- Tobacco as a Progression Promoter of DNP in Type 2 Diabetes -- Diabetic Smokers with End-stage Renal Failure and Renal Replacement Therapy.  
Smoking as a Risk Factor for All-cause Mortality in Type 1 and Type 2 Diabetic Patients with CKD -- Possible Contribution of Smoking to Diabetic Nephropathy -- Podocyte Damage -- Hyperfiltration and Limited or Abolished Glomerular Autoregulation -- Nicotine -- Genetic Predisposition -- Heavy Metals -- Impaired Vasodilation -- Elevated Resting Energy Expenditure -- Reversibility -- Histology in Diabetic Nephropathy and Metabolic Syndrome -- Future Perspectives -- References -- Chapter 10: Effects of Cigarette Smoking on Oxidative Stress Biomarkers -- Abstract -- Introduction -- Materials and Methods -- Study Design -- Samples -- Methods -- Smoking Questionnaire -- Biochemical Assays -- Paraoxonase Activity -- Tobacco Biomarkers -- Clinical Evaluation -- Statistical Analysis -- Results -- Risk Factors of Oxidative Stress in Smokers -- Effect of Cigarette Smoking on Plasma Total Homocysteine Concentrations -- Paraoxonase 1 (PON1) Activity in Smokers -- Effect of Cigarette Smoking on Uric Acid Levels -- Effect of Cigarette Smoking on Bilirubin Levels -- Effect of Cigarette Smoking on Albumin Levels -- Effect of Cigarette Smoking on MDA Levels -- Correlation between the Studied Oxidative Stress Factors and Two Biological Tobacco Markers -- Discussion -- Conclusion -- References -- Chapter 11: Causality of Cigarette Smoking among Young Men in Taiwan -- Abstract -- Introduction -- Methods -- Study Sample and Study Design -- Data Collection and Measurement -- Statistical Analysis -- Results -- Discussion -- Acknowledgments -- References -- Chapter 12: Review - Bacteria, Mold and Microbial Toxinsof Cigarettes -- Abstract -- Abbreviations -- 1. Introduction -- FDA List of Harmful Constituents of Tobacco Smoke -- Structured Studies of Tobacco Smoke Chemical Toxicants -- Aflatoxin B1 - First Listing of a Microbe-derived Carcinogen of Tobacco.  
Tobacco Microbes and Microbial Toxins - Propensity for Harm -- Tobacco Microbes, Cigarette Smoke and Carcinogenic Nitrosamines -- 2. Tobacco Microflora, Curing and Fermentation -- The Microbiology of Tobacco -- Biological and Chemical Components in Tobacco - A New Perspective -- 3. Chronic Inflammation and Tobacco Smoke -- Tobacco Microbes and Lung Leukocyte Toll Receptors -- Cigarette Smoke, Chronic Inflammation, and Impaired Immunity -- Inhaled Microbes and the Alveolus -- Toll Receptor Mediated Pro-inflammatory Response -- LPS in Tobacco Smoke -- 4. COPD and Chronic Inflammation -- Bacterial Colonization of the Lung -- 5. Transfer of Tobacco Flakes into Mainstream Smoke -- Tobacco Bacteria Escape Pyrolysis -- 6. Immune Response to the Inhalation of Tobacco-associated Bacillus -- Cigarettes, Tobacco, Bacteria and Spores -- Cigarettes, Tobacco, and Mold -- 7. Chewing Tobacco and Microbes -- Potential Pathogens and Aflatoxin -- Summary -- References -- Index.

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## Sommario/riassunto

Cigarette smoking is a well-known public health issue which has a great impact on society, medical insurance, government policy and population health in general. Although we all know that cigarette smoking will damage health and even cause cancers, for certain reasons, the habit of smoking persists in our society. Therefore, while we continue to warn people of the toxic effect of cigarette smoking on health, we need to find out how the damages occur, and how to prevent it or how to minimize the outcome. This book consists of 12 chapters that address different aspects of cigarette consumption and health

effects. The content of these chapters should be valuable for policy makers, investigators, and the public by providing a source of information which they may refer to when dealing with cigarette smoking issues.

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