TABLE OF CONTENTS

**Preface**
The Editors ................................................................................................................................. 5429s

**Introduction I**
Myron Essex .............................................................................................................................. 5430s

**Introduction II**
Pelayo Correa .......................................................................................................................... 5431s

---

**Part I: Time Trends and Pathological Classification**

**Non-Hodgkin's Lymphoma Time Trends: United States and International Data**
Susan S. Devesa and Thomas Fears ......................................................................................... 5432s

**Changes in the Descriptive Epidemiology of Non-Hodgkin's Lymphoma in Great Britain**
R. A. Cartwright ......................................................................................................................... 5441s

**Time Trends of Non-Hodgkin's Lymphoma: Are They Real? What Do They Mean?**
Theodore R. Holford, Tongzhang Zheng, Susan T. Mayne, and Lisa A. McKay .................. 5443s

**An Overview of the Classification of Non-Hodgkin's Lymphomas: An Integration of Morphological and Phenotypical Concepts**
Elaine S. Jaffe, Mark Raffeld, L. Jeffrey Madeiros, and Maryalice Stetler-Stevenson .......... 5447s

**Changes in Diagnosis of Non-Hodgkin's Lymphomas over Time**
Peter M. Banks .......................................................................................................................... 5453s

**Pathological Classifications of Non-Hodgkin's Lymphoma for Epidemiological Studies**
Dennis D. Weisenburger .......................................................................................................... 5456s

**Discussion** ............................................................................................................................ 5462s

---

**Part II: Genetic and Environmental Determinants**

**Primary Immunodeficiencies: Genetic Risk Factors for Lymphoma**
A. H. Filipovich, A. Mathur, D. Kamat, and R. S. Shapiro .................................................. 5465s

**Familial Aggregation of Hematopoietic Malignancies and Risk of Hodgkin's Lymphoma**
Martha S. Linet and Linda M. Pottern ...................................................................................... 5468s

**Immunosuppressive Therapy and Immunological Disorders**
Leo Kinlen ................................................................................................................................... 5474s

**Lymphoma Risks in Populations with Altered Immunity—A Search for Mechanism**
Robert N. Hoover ..................................................................................................................... 5477s

**Viruses Other than HIV and Non-Hodgkin's Lymphoma**
Nancy E. Mueller, Alejandro Mohar, and Alfred Evans .......................................................... 5479s

**Epidemiological and Biological Study of Acquired Immunodeficiency Syndrome-related Lymphoma in the County of Los Angeles: Preliminary Results**

**Pesticides and Non-Hodgkin's Lymphoma**
Shelia Hoar Zahm and Aaron Blair .......................................................................................... 5485s

**Radiation and Non-Hodgkin's Lymphoma**
John D. Boice, Jr. ...................................................................................................................... 5489s

**Nutritional Factors and the Development of Non-Hodgkin's Lymphoma: A Review of the Evidence**
Scott Davis ................................................................................................................................... 5492s

5426s
Increasing Incidence of Non-Hodgkin's Lymphoma: Occupational and Environmental Factors
Neil Pearce and Peter Bethwaite ................................. 5496s

Comments on Occupational and Environmental Factors in the Origin of Non-Hodgkin's Lymphoma
Aaron Blair, Athena Linos, Patricia A. Stewart, Leon F. Burmeister, Robert Gibson,
George Everett, Leonard Schuman, and Kenneth P. Cantor ................................. 5501s

Non-Hodgkin's Lymphoma and Occupational Exposure
Paul A. Scherr, George B. Hutchison, and Richard S. Neiman ................................. 5503s

Prior Medication Use and Health History as Risk Factors for Non-Hodgkin's Lymphoma: Preliminary
Results from a Case-Control Study in Los Angeles County
Leslie Bernstein and Ronald K. Ross ................................. 5510s

Does Chronic Fatigue Syndrome Predispose to Non-Hodgkin's Lymphoma?
Paul H. Levine, Daniel Peterson, Faye L. McNamee, Karen O'Brien, Gloria Gridley,
Mary Hagerty, Jane Brady, Thomas Fears, Martin Atherton, and Robert Hoover ................................. 5516s

Discussion ................................................................. 5518s

Part III: Molecular and Immunoregulatory Mechanisms

Pathogenetic Mechanisms in B-Cell Non-Hodgkin's Lymphomas in Humans
Michael Potter ................................. 5522s

Molecular Basis of Lymphomagenesis
Ian Magrath ................................. 5529s

Characterization of Chromosome 11 Translocation Breakpoints at the bcl-1 and PRAD1 Loci
in Centrocytic Lymphoma
Michael E. Williams, Steven H. Swerdlow, Carol L. Rosenberg,
and Andrew Arnold ................................. 5541s

A Measure of Genomic Instability and Its Relevance to Lymphomagenesis
Ilan R. Kirsch and Stanley Lipkowitz ................................. 5545s

Antigen Selection in Human Lymphomagenesis
David W. Bahler, Andrew D. Zelenetz, Thomas T. Chen, and Ronald Levy ................................. 5547s

Epstein-Barr Virus-induced Human B-Cell Lymphomas in SCID Mice Reconstituted with Human
Peripheral Blood Leukocytes
Donald E. Mosier, Gastón R. Picchio, Stephen M. Baird, Ryo Kobayashi, and
Thomas J. Kipps ................................. 5552s

Follicular Dendritic Cells: B-Cell Proliferation and Maturation
Andras K. Szakal and John G. Tew ................................. 5554s

The Past Is Prologue: The Use of Serum Banks in Cancer Research
Alfred S. Evans and Nancy E. Mueller ................................. 5557s

Applications of Experimental Techniques to Epidemiological Studies of Non-Hodgkin's Lymphoma:
Use of Archival Tissues
Paul H. Levine ................................. 5561s

Discussion ................................................................. 5562s

Part IV: Summaries and Conclusions

Quantification of the Impact of Known Risk Factors on Time Trends in Non-Hodgkin's Lymphoma
Incidence
Patricia Hartge and Susan S. Devesa ................................. 5566s

Time Trends and Pathological Classification: A Summary
G. Iris Obrams and Gregory O’Conor ................................. 5570s

5427s
Depicted on the cover are two of the components of this symposium which emphasize the problem being addressed. The graph at the top, taken from the report by Devesa et al. (this Supplement, pp. 5432s–5440s), documents the consistent rise in non-Hodgkin’s lymphoma incidence for the past two decades. The photomicrograph at the bottom depicts a diffuse large cell lymphoma of monclonal B-cell phenotype, one of the aggressive lymphomas contributing significantly to the non-Hodgkin’s lymphoma increase. This tumor’s name is derived from the resemblance of the tumor cells to large non-cleaved follicular center cells. Large cell lymphoma is one of the most common non-Hodgkin’s lymphoma subtypes, accounting for approximately 20% of all cases (photomicrograph courtesy of Dr. Elaine Jaffe, National Cancer Institute, NIH, Bethesda, MD).
Updated version
Access the most recent version of this article at:
http://cancerres.aacrjournals.org/content/52/19_Supplement.citation

<table>
<thead>
<tr>
<th>E-mail alerts</th>
<th>Sign up to receive free email-alerts related to this article or journal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reprints and Subscriptions</td>
<td>To order reprints of this article or to subscribe to the journal, contact the AACR Publications Department at <a href="mailto:pubs@aacr.org">pubs@aacr.org</a>.</td>
</tr>
<tr>
<td>Permissions</td>
<td>To request permission to re-use all or part of this article, contact the AACR Publications Department at <a href="mailto:permissions@aacr.org">permissions@aacr.org</a>.</td>
</tr>
</tbody>
</table>