This month's theme: Sleep, immunity, and allergic disease

About the cover

Sleep is that golden chain that ties health and our bodies together.
—Thomas Dekker, Jacobean dramatist, 1577-1632

The importance of sleep has long been recognized. However, its influence on the complexities of biology and immunity has only recently been explored and applied to the practice of allergy. This month’s issue features 4 articles on Sleep and Allergic Disease. The feature articles are marked in the Table of Contents by a red starburst beside their titles.

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This month in Beyond Our Pages

A case-control study found a significant association between severe adult-onset asthma and exposure to any occupational asthmogen. An analysis of a sizable number of cases of the Churg-Strauss syndrome explored the relationship between the presence of serum antineutrophil cytoplasmic antibodies and particular organ involvement. A follow-up investigation of wheezing patterns to age 16 years has been carried out in the population-based cohort in Tucson, Arizona studied since birth. While some studies have shown that early-life exposure to household endotoxin protects against the development of allergies, this study found that endotoxin exposure is a risk factor for asthma. Another report described the role of a class of enzymes called ubiquitin E3 ligase in cytokine signaling. Another enzyme, arginase, appears to have an important role in TH2 immune responses. Studies in mice have shown that mucus production is not required for cardinal features of experimental asthma.
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Nocturnal asthma
E. Rand Sutherland, MD, MPH, Denver, Colo

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Links between the innate immune system and sleep
Jeannine A. Majde, PhD, and James M. Krueger, PhD, Pullman, Wash

Continuing Medical Education examination: Links between the innate immune system and sleep

Editorial

Sleep disorders in patients with asthma, atopic dermatitis, and allergic rhinitis
Bruce G. Bender, PhD, and Donald Y. M. Leung, MD, PhD, Denver, Colo

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Perspectives in asthma: Molecular use of microbial products in asthma prevention and treatment
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David S. Pearlman, MD, William E. Berger, MD, Edward Kerwin, MD, Craig LaForce, MD, Sudeep Kundu, PhD, and Donald Banerji, MD, Denver, Colo; Mission Viejo, Calif; Medford, Ore, Raleigh, NC, and Bridgewater, NJ

Irreversible lung function deficits in young adults with a history of childhood asthma

Susan L. Limb, MD, Kathryn C. Brown, MD, Robert A. Wood, MD, Robert A. Wise, MD, Peyton A. Eggleston, MD, James Tonascia, PhD, and N. Franklin Adkinson, Jr, MD, Baltimore, Md

Mechanisms of asthma and allergic inflammation

A potent antiangiogenic factor, endostatin prevents the development of asthma in a murine model

Yasue Suzuki, MD, Kaoru Hamada, MD, Masayuki Shin, MD, Toshihiro Ito, MD, Kenichi Miyamoto, MD, Satoru Akashi, MD, Hisanori Kashikawa, MD, Naoya Ikeda, MD, Yoshiyuki Nakajima, MD, Michiko Iwase, PhD, Ikuo Homma, MD, Lester Kobzik, MD, and Hiroshi Kimura, MD, Nara and Tokyo, Japan, and Boston, Mass

Leptin is an eosinophil survival factor

Sébastien Conos, PhD, Andreina Bruno, PhD, and Hans-Uwe Simon, MD, PhD, Bern, Switzerland

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Teal S. Hallstrand, MD, MPH, Mary E. Fischer, PhD, Mark M. Wurzel, MD, PhD, Niloofar Afari, PhD, Dedra Buc华北, MD, and Jack Goldberg, PhD, Seattle, Wash

Bradykinin differentiates human lung fibroblasts to a myofibroblast phenotype via the B2 receptor

Carlo Vancheri, MD, PhD, Elsa Gili, BSc, Marco Failla, MD, Claudio Mastrozzo, MD, PhD, Elsa Trovato Salinaro, BSc, Debora LaFarina, BSc, Maria P. Patania, BSc, Cristina La Rosa, BSc, Massimo Caruso, BSc, and Nunzia Crimi, MD, Catania, Italy

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Philip E. Silkeff, MD, Anne M. Lent, MD, Ashley A. Basacker, BS, Rohit K. Katrial, MD, Silvana Balsam, MD, Matthew Strand, PhD, and Sally E. Wenzel, MD, Denver, Colo

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Paula J. Buse, MD, Teng Fei Zhang, PhD, Kamal Srivastava, MPhil, Bernard P. Lin, BS, Brian Schofield, JD, Stuart C. Sealfon, MD, and Xi-Min Li, MD, New York, NY, and Baltimore, Md

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Timothy J. Craig, DO, Christopher D. Hanks, MS, and Laura H. Fisher, MD, Hershey, Pa

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Daniel L. Hamilos, MD, Donald C. Lenza, MD, and David W. Kennedy, MD, Boston, Mass, St. Petersburg, Fla, and Philadelphia, Pa

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Larry Borish, MD, Charlottesville, Va

Expanding the evidence base for the medical treatment of nasal polyposis

Michael S. Blais, MD, Germantown, Tenn

Original articles

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Catherine Butkus Small, MD, Jaime Hernandez, MD, Antonio Reyes, MD, Eric Schenkel, MD, Angela Damiano, MD, Paul Strzyzak, PhD, Heribert Staudinger, MD, and Melvin Danzig, PhD, Valhalla, NY, Medellin and Cali, Colombia, Philadelphia, Pa, and Kenilworth, NJ

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Eli O. Meltzer, MD, Claus Bachert, MD, PhD, and Heribert Staudinger, MD, San Diego, Calif, Ghent, Belgium, and Kenilworth, NJ

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Cherry R. Valerio, BS, Patrick Murray, PhD, Larry G. Arlian, PhD, and Jay E. Slater, MD, Bethesda, Md, and Dayton, Ohio

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**Astilbin inhibits contact hypersensitivity through negative cytokine regulation distinct from cyclosporin A**

Mingjian Fei, MS, Xuefeng Wu, PhD, and Qiang Xu, PhD, Nanjing, China

**Monomeric IgE enhances human mast cell chemokine production: IL-4 augments and dexamethasone suppresses the response**

Kentaro Matsuda, MD, Adrian M. Piliponsky, BScPharm, PhD, Motoyasu Ikura, MD, PhD, Susumu Nakae, PhD, Evelyn W. Wang, PhD, Sucharita M. Dutta, MS, Teichi Kanokami, MD, PhD, Mindy Tsai, DMSc, and Stephen J. Galli, MD, Stanford and San Diego, Calif

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## Letters to the Editor

**Children’s compliance with allergen immunotherapy according to administration routes**

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**Plasma mannan-binding lectin levels and activity are increased in allergic patients**

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Fixed food eruption caused by asparagus

Thomas Volz, MD, Diana Berner, MD, Christina Weigert, MD, Martin Röcken, MD, and Tilo Biedermann, MD, Tübingen, Germany

Images in allergy and immunology

Obstructive sleep apnea syndrome and inflammation

Celine Bergeron, MD, MSc, John Kimoff, MD, and Qutayba Hamid, MD, PhD, Editors

Beyond our pages

Burton Zweiman, MD, and Marc E. Rothenberg, MD, PhD, Editors

Correction

Are inhaled corticosteroids taken during pregnancy harmless?

(Lemierre C, Blair L. 2005;116:501-2)

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