

Arthritis & Rheumatism

An Official Journal of the American College of Rheumatology
www.arthritisrheum.org and www.interscience.wiley.com

VOLUME 56

FEBRUARY 2007

NO. 2

Special Articles

- Editorial: Exploiting T Cell Crosstalk as a Vaccination Strategy for Rheumatoid Arthritis
Berent Prakken and Salvatore Albani 389
- Editorial: "Resurrection of Thrombin" in the Pathophysiology of the Antiphospholipid Syndrome
Takao Koike and Tatsuya Atsumi 393
- Editorial: Translating Regulatory T Cells in Rheumatoid Arthritis: Revisiting the Past?
Stanford L. Peng 395
- Review: Circadian Rhythms in Rheumatoid Arthritis: Implications for Pathophysiology and Therapeutic Management
Rainer H. Straub and Maurizio Cutolo 399
- Review: The Role of T Cells in the Pathogenesis of Osteoarthritis
Lazaros I. Sakkas and Chris D. Platsoucas 409

Rheumatoid Arthritis Clinical Studies

- The HLA-DRB1 Shared Epitope Alleles Differ in the Interaction With Smoking and Predisposition to Antibodies to Cyclic Citrullinated Peptide
Annette H. M. van der Helm-van Mil, Kirsten N. Verpoort, Saskia le Cessie, Tom W. J. Huizinga, René R. P. de Vries, and René E. M. Toes 425
- A Prediction Rule for Disease Outcome in Patients With Recent-Onset Undifferentiated Arthritis: How to Guide Individual Treatment Decisions
Annette H. M. van der Helm-van Mil, Saskia le Cessie, Henrike van Dongen, Ferdinand C. Breedveld, René E. M. Toes, and Tom W. J. Huizinga 433
- Angiotensin II Type 1 Receptor as a Novel Therapeutic Target in Rheumatoid Arthritis: In Vivo Analyses in Rodent Models of Arthritis and Ex Vivo Analyses in Human Inflammatory Synovitis
A. Price, J. C. Lockhart, W. R. Ferrell, W. Gsell, S. McLean, and R. D. Sturrock 441
- Fc γ Receptor Type IIIA Genotype and Response to Tumor Necrosis Factor α -Blocking Agents in Patients With Rheumatoid Arthritis
Alf Kastbom, Johan Bratt, Sofia Ernestam, Jon Lampa, Leonid Padyukov, Peter Söderkvist, and Thomas Skogh 448
- Vaccination With Selected Synovial T Cells in Rheumatoid Arthritis
Guangjie Chen, Ningli Li, Ying C. Q. Zang, Dongqing Zhang, Dongyi He, Guozhang Feng, Liqing Ni, Rong Xu, Li Wang, Baihua Shen, and Jingwu Z. Zhang 453

Rheumatoid Arthritis Basic Science Studies

- Tumor Necrosis Factor α Acceleration of Inflammatory Responses by Down-Regulating Heme Oxygenase 1 in Human Peripheral Monocytes
Yohei Kirino, Mitsuhiro Takeno, Shuji Murakami, Masayoshi Kobayashi, Hideo Kobayashi, Kenji Miura, Haruko Ideguchi, Shigeru Ohno, Atsuhisa Ueda, and Yoshiaki Ishigatsubo 464

Psoriatic Arthritis

- Adalimumab for Long-Term Treatment of Psoriatic Arthritis: Forty-Eight Week Data From the Adalimumab Effectiveness in Psoriatic Arthritis Trial
Dafna D. Gladman, Philip J. Mease, Christopher T. Ritchlin, Ernest H. S. Choy, John T. Sharp, Peter A. Ory, Renee J. Perdok, and Eric H. Sasso 476

Spondylarthritis

- Evidence for Uncoupling of Inflammation and Joint Remodeling in a Mouse Model of Spondylarthritis
Rik J. U. Lories, Inge Derese, Cosimo De Bari, and Frank P. Luyten 489

Inflammatory Arthritis

- Suppression of Immune Responses in Collagen-Induced Arthritis by a Rationally Designed CD80-Binding Peptide Agent
Mythily Srinivasan, Rajaraman Eri, Susan L. Zunt, Don-John Summerlin, David D. Brand, and Janice S. Blum 498
- Where FoxP3-Dependent Regulatory T Cells Impinge on the Development of Inflammatory Arthritis
Linh T. Nguyen, Jonathan Jacobs, Diane Mathis, and Christophe Benoist 509

A Novel DNA Vaccine Targeting Macrophage Migration Inhibitory Factor Protects Joints From Inflammation and Destruction in Murine Models of Arthritis <i>Shin Onodera, Shigeki Ohshima, Harukazu Tohyama, Kazunori Yasuda, Jun Nishihira, Yoichiro Iwakura, Ikkei Matsuda, Akio Minami, and Yoshikazu Koyama</i>	521
Therapeutic Effect of Urocortin on Collagen-Induced Arthritis by Down-Regulation of Inflammatory and Th1 Responses and Induction of Regulatory T Cells <i>Elena Gonzalez-Rey, Alejo Chorny, Nieves Varela, Francisco O'Valle, and Mario Delgado</i>	531
Amelioration of Collagen-Induced Arthritis in Rats by Nanogold <i>Chiau-Yuang Tsai, Ai-Li Shiau, Shih-Yao Chen, Yu-Hung Chen, Pai-Chiao Cheng, Meng-Ya Chang, Dong-Hwang Chen, Chen-Hsi Chou, Chrong-Reen Wang, and Chao-Liang Wu</i>	544
Osteoarthritis Clinical Studies	
Glucosamine Sulfate in the Treatment of Knee Osteoarthritis Symptoms: A Randomized, Double-Blind, Placebo-Controlled Study Using Acetaminophen as a Side Comparator <i>Gabriel Herrero-Beaumont, José Andrés Román Ivorra, María del Carmen Trabado, Francisco Javier Blanco, Pere Benito, Emilio Martín-Mola, Javier Paulino, José Luis Marengo, Armando Porto, Armando Laffon, Domingos Araújo, Manuel Figueroa, and Jaime Branco</i>	555
Association of Hospital and Surgeon Procedure Volume With Patient-Centered Outcomes of Total Knee Replacement in a Population-Based Cohort of Patients Age 65 Years and Older <i>Jeffrey N. Katz, Nizar N. Mahomed, John A. Baron, Jane A. Barrett, Anne H. Fossel, Alisha H. Creel, John Wright, Elizabeth A. Wright, and Elena Losina</i>	568
Osteoarthritis and Cartilage Biology Basic Science Studies	
Aggrecan Degradation in Human Articular Cartilage Explants Is Mediated by Both ADAMTS-4 and ADAMTS-5 <i>Ruo-Hua Song, Micky D. Tortorella, Anne-Marie Malfait, James T. Alston, Zhiyong Yang, Elizabeth C. Arner, and David W. Griggs</i>	575
Identification of Markers to Characterize and Sort Human Articular Chondrocytes With Enhanced In Vitro Chondrogenic Capacity <i>Shawn Patrick Grogan, Andrea Barbero, Jose Diaz-Romero, Anne-Marie Cleton-Jansen, Stephan Soeder, Robert Whiteside, Pancras C. W. Hogendoorn, Jian Farhadi, Thomas Aigner, Ivan Martin, and Pierre Mainil-Varlet</i>	586
Systemic Lupus Erythematosus Basic Science Studies	
Autoantibodies to RNA Helicase A: A New Serologic Marker of Early Lupus <i>Yoshioki Yamasaki, Sonali Narain, Hideo Yoshida, Liza Hernandez, Tolga Barker, Paulette C. Hahn, Eric S. Sobel, Mark S. Segal, Hanno B. Richards, Edward K. L. Chan, Westley H. Reeves, and Minoru Satoh</i>	596
Beta ₂ -Glycoprotein I Binds Thrombin via Exosite I and Exosite II: Anti-β ₂ -Glycoprotein I Antibodies Potentiate the Inhibitory Effect of β ₂ -Glycoprotein I on Thrombin-Mediated Factor XIa Generation <i>Soheila Rahgozar, Qiuxia Yang, Bill Giannakopoulos, Xiaokai Yan, Spiros Miyakis, and Steven A. Krilis</i> ...	605
Systemic Lupus Erythematosus Clinical Studies	
Systemic Lupus Erythematosus in a Multiethnic US Cohort: XLIII. The Significance of Thrombocytopenia as a Prognostic Factor <i>Mónica Fernández, Graciela S. Alarcón, Mandar Apte, Rosa M. Andrade, Luis M. Vilá, and John D. Reveille, for the LUMINA Study Group</i>	614
Accelerated Damage Accrual Among Men With Systemic Lupus Erythematosus: XLIV. Results From a Multiethnic US Cohort <i>Rosa M. Andrade, Graciela S. Alarcón, Mónica Fernández, Mandar Apte, Luis M. Vilá, and John D. Reveille, for the LUMINA Study Group</i>	622
Childhood Arthritis	
Longitudinal Examination of Lipid Profiles in Pediatric Systemic Lupus Erythematosus <i>Talin Sarkissian, Joseph Beyene, Brian Feldman, Brian McCrindle, and Earl D. Silverman</i>	631
Safety and Efficacy of Meningococcal C Vaccination in Juvenile Idiopathic Arthritis <i>Evelien Zonneveld-Huijssoon, Arash Ronaghy, Marion A. J. van Rossum, Ger T. Rijkers, Fiona R. M. van der Klis, Elisabeth A. M. Sanders, Patricia E. Vermeer-de Bondt, Arno W. Hoes, Jan Jaap van der Net, Carla Engels, Wietse Kuis, Berent J. Prakken, Maarten J. D. van Tol, and Nico M. Wulffraat</i>	639
Prevalence, Risk Factors, and Outcome of Uveitis in Juvenile Idiopathic Arthritis: A Long-Term Followup Study <i>R. K. Saurenmann, A. V. Levin, B. M. Feldman, J. B. Rose, R. M. Laxer, R. Schneider, and E. D. Silverman</i>	647

First Report of Macrophage Activation Syndrome in Hyperimmunoglobulinemia D With Periodic Fever Syndrome <i>Donato Rigante, Ettore Capoluongo, Barbara Bertoni, Valentina Ansuini, Antonio Chiaretti, Marco Piastra, Silvia Pulitanò, Orazio Genovese, Adele Compagnone, and Achille Stabile</i>	658
Vasculitis	
Increased Expression of TRAIL Receptor 3 on Eosinophils in Churg-Strauss Syndrome <i>Hideo Mitsuyama, Wataru Matsuyama, Masaki Watanabe, Yuko Shirahama, Ikkou Higashimoto, Takashi Wada, Mitsuhiro Osame, and Kimiyoshi Arimura</i>	662
Clinical Images	
Blue-Purple Ears <i>H. A. Martens and M. Bijl</i>	673
Myositis	
Immunolocalization of Interleukin-1 Receptors in the Sarcolemma and Nuclei of Skeletal Muscle in Patients With Idiopathic Inflammatory Myopathies <i>Cecilia Grundtman, Stina Salomonsson, Christina Dorph, Joseph Bruton, Ulf Andersson, and Ingrid E. Lundberg</i>	674
Calcium Pyrophosphate Deposition Disease	
Methotrexate as an Alternative Therapy for Chronic Calcium Pyrophosphate Deposition Disease: An Exploratory Analysis <i>Amélie Chollet-Janin, Axel Finckh, Jean Dudler, and Pierre-André Guerne</i>	688
Letters	
Retraction of the Suggestion to Use the Term “Reiter’s Syndrome” Sixty-Five Years Later: The Legacy of Reiter, a War Criminal, Should Not Be Eponymic Honor but Rather Condemnation <i>Richard S. Panush, Daniel J. Wallace, Rabbi Elliot N. Dorff, and Ephraim P. Engleman</i>	693
Effect of the 34C>T Variant in the <i>AMPD1</i> Gene on the Clinical Response to Methotrexate in Patients With Rheumatoid Arthritis: Comment on the Article by Wessels et al <i>Niels P. Riksen, Gerard A. Rongen, Paul Smits, Piet van Riel, and Pilar Barrera</i>	694
Reply <i>Judith A. M. Wessels, Tom W. J. Huizinga, Henk-Jan Guchelaar, and Robert de Jonge</i>	694
Tumor Necrosis Factor α Blockers and Metastases: Comment on the Article by Setoguchi et al <i>Hugh McGrath, Jr.</i>	695
Reply <i>Soko Setoguchi, Daniel H. Solomon, Michael E. Weinblatt, Jeffrey N. Katz, Jerry Avorn, Robert J. Glynn, E. Francis Cook, Greg Carney, and Sebastian Schneeweiss</i>	696
The Enigmatic Duality of High-Density Lipoprotein—Cardioprotective yet Potentially Atherogenic: Comment on the Article by McMahon et al <i>Melvin Khee-Shing Leow</i>	696
Transdermal Fentanyl in Patients With Osteoarthritis: Comment on the Article by Langford et al <i>Bernard Bannwarth</i>	697
Correlation Between Serum and Synovial Fluid Estrogen Concentrations: Comment on the Article by Sowers et al <i>Pascal Richette, Kathleen Laborde, Carole Boutron, Thomas Bardin, Marie-Thérèse Corvol, and Jean-François Savouret</i>	698
Reply <i>MaryFran R. Sowers</i>	698
Are the CIASSification Criteria for Psoriatic ARthritis Better Than Existing Criteria for Diagnosing Psoriatic Arthritis? Comment on the Article by Taylor et al <i>Dennis McGonagle and Ai Lyn Tan</i>	699
Reply <i>William Taylor, Dafna Gladman, Philip Helliwell, Antonio Marchesoni, Philip Mease, and Herman Mielants</i>	700
ACR Announcements	A16

Cover image: The figure on the cover (from Onodera et al, page 527) depicts the effects of vaccination with macrophage migration inhibitory factor/tetanus toxoid in interleukin-1 receptor antagonist–knockout mice. Safranin O staining of an ankle joint specimen showed that immunization with macrophage migration inhibitory factor/tetanus toxoid inhibits the development of spontaneous autoimmune arthritis in this mouse model.