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Rheumatology Research Highlights

for Professionals **About Our Division Research Highlights**

Rheumatology Division

Professional Education Resources for Professionals Refer to a Rheumatologist

For Patients

Featured Highlights:

Synergistic Activation of Inflammatory Cytokine Genes May Suggest New Therapeutic Approaches

Featuring Yu Qiao, PhD; Eugenia G. Giannopoulou, PhD; Chun Hin Chan; Sung-ho Park; Shiaoching Gong; Janice Chen; Xiaoyu Hu, MD, PhD; Olivier Elemento, PhD; Lionel B. Ivashkiv, MD ▶ The identification of molecular mechanisms involving chromatin that act synergistically during the

inflammatory process may help reveal potential new therapies to arrest tissue damage. Enhanced Rho-Associated Protein Kinase Activation in Patients

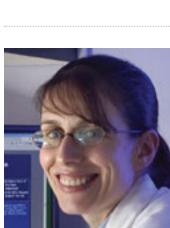
Featuring Josephine Isgro, MD; Sanjay Gupta, PhD; Elzbieta Jacek, BA; Tanya Pavri, BA; Roland Duculan, MD; Mimi Kim, ScD; Kyriakos A. Kirou, MD, ScD; Jane E. Salmon, MD; Alessandra B. Pernis, MD

with Systemic Lupus Erythematosus

increase in the SLE group from 1991 to 2005

▶ A study that found higher levels of Rho-associated protein kinase (ROCK) in patients with systemic lupus erythematosus (SLE) versus healthy controls, suggests a potentially significant therapeutic target for the treatment of SLE

Fifteen-Year Period

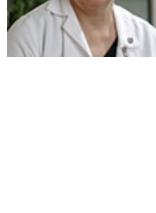


Increased Rates of Arthroplasty in Patients with SLE Seen Over a

Featuring Christina Mertelsmann-Voss, MD; Stephen Lyman, PhD; Ting Jung Pan, MPH; Susan Goodman, MD; Mark P. Figgie, MD; Lisa Mandl, MD MPH

▶ An analysis of discharge data for arthroplasty patients with systemic lupus erythematosus (SLE) compared with those who had no inflammatory or autoimmune conditions showed an almost two-fold

DMARD Therapy Associated with More Optimistic Expectations in RA Patients Undergoing TKA Featuring Susan M. Goodman, MD; Lisa A. Mandl, MD, MPH; Mark P. Figgie, MD; Beverly K. Johnson, MD, MS;



Michael Alexiades, MD; Hassan Ghomrawi, PhD, MPH

▶ Rheumatoid arthritis patients on biologic DMARD therapy have more optimistic expectations about knee replacement surgery—comparable to those of osteoarthritis patients—than do RA patients not on biologics

Managing Pregnant Patients with Antiphospholipid Antibody Syndrome: Risk Stratification May Help Refine Treatment Recommendations Featuring Michael D. Lockshin, MD

may result in more effective management during pregnancy

Highly Fatal Disease

Antiphospholipid Syndrome (CAPS)



Featuring Cassyanne L. Aguiar, MD; Doruk Erkan, MD ▶ A step-by-step clinical approach can address the diagnostic challenges of Catastrophic

▶ Clinical trials based on risk stratification and long-term follow-up of infants born to mothers with APS

Catastrophic Antiphospholipid Syndrome: Diagnosing a Rare but

Featuring Nancy Pan, MD; Isabelle Amigues, MD; Stephen Lyman, PhD; Roland Duculan, MD; Faisal Aziz, MD; Mary K. Crow, MD; Kyriakos A. Kirou, MD ▶ Rapid and substantial rises in Anti-dsDNA suggests utility of prompt close monitoring for SLE flares

Surges in Anti-dsDNA Can Predict Severe Flares in SLE

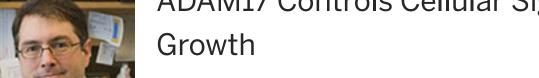


MD, PhD; Lionel B. Ivashkiv, MD ▶ Synovial fibroblast modulation of macrophage function may play a role in the pathogenesis of inflammatory arthritis

Doctors Using Excessive Medical Jargon Can Seem

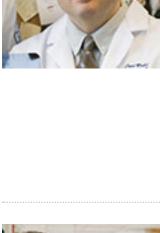
Featuring Laura T. Donlin, PhD; Arundathi Jayatilleke, MD; Eugenia G. Giannopoulou, PhD; George D. Kalliolias,

Featuring Theodore R. Fields, MD; Anne R. Bass, MD; Juliet Aizer, MD, MPH; Stephen A. Paget, MD; Jessica Berman, MD Study finds clear communication matters



Disability Two Years Out

Unprofessional to Patients



P. Blobel, MD, PhD ▶ Mice whose cartilage cells were missing ADAM17 did not experience proper long bone growth.

Featuring Katherine C. Hall; Daniel Hill; Miguel Otero, PhD; Darren A. Plumb, PhD; Dara Froemel, MD; Cecilia L.

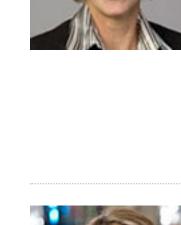
Dragomir, MD; Thorsten Maretzky, PhD; Adele Boskey, PhD; Licia Selleri, MD, PhD; Mary B. Goldring, PhD; Carl

iRHOM2 is a Critical Pathogenic Mediator of Inflammatory **Arthritis** Featuring Priya Darshinee A. Issuree, PhD; Thorsten Maretzky, PhD; Xiaoping Qing, MD, PhD; Steven L.



▶ Selectively targeting iRHOM2 could create new therapies to treat RA with less side effects

Yarilina, PhD; Lionel B. Ivashkiv, MD; Jane E. Salmon, MD; Carl P. Blobel, MD, PhD



Delaying treatment for RA can increase chances of long-term joint damage

Featuring Alessandra B. Pernis, MD; Josephine Isgro, MD; Sanjay Gupta, MD; Elzbieta Jacek; Tanya Pavri;

▼ Read more Comparing 28 patients with lupus to 25 healthy control patients, a research team of HSS scientists and rheumatologists found that the patients with lupus had increased activity of proteins called rho-associated kinases – or ROCKs. This enhanced activity was

associated with differentiation of the Th17 cells of the immune system.

Enhanced ROCK Activation in Lupus

Roland Duculan, MD; Kyriakos A. Kirou, MD; Jane E. Salmon, MD

The ability of IRF4 to drive cytokine production is controlled by ROCKs – which phosphorylate IRF4. Drugs that inhibit ROCK activity are already used to treat cardiovascular and other diseases. In previous studies, using lupus mice, the HSS team showed drugs that inhibit ROCKs could reduce inflammation. In this new study, using human T cells, ROCK inhibitors reduced production of IL-17 and IL-21. These results

For more information about lupus treatment at HSS, see the Lupus and APS Center of Excellence. Social Isolation Increases the Risk of Persistent Pain After Hip Replacement

Featuring Jane E. Salmon, MD; Michael D. Lockshin, MD; Lisa R. Sammaritano, MD; Marta M. Guerra, MS New biomarkers could help identify pregnancies at risk in patients with lupus or aPL.

Manifestations of GPA

MD; Susan M. Goodman, MD

with Angiogenic Factor Dysregulation



▶ Read more

▶ In this large study, patients treated with RTX were far less likely to have active ENT disease. First Large Outcomes Studies to Focus on Joint Replacements

Featuring Lisa A. Mandl, MD, MPH; Rebecca Zhul; Wei-Ti Huang, MS; Michael M. Alexiades, MD; Mark P. Figgie,

Rituximab Shown Effective for Ear, Nose, and Throat

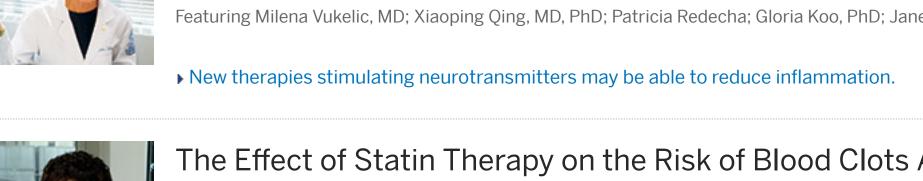
Featuring Lindsay S. Lally, MD; Robert Lebovics, MD; Wei-Ti Huang, MS; Robert F. Spiera, MD

▶ Having psoriatic arthritis does not prevent good outcomes in either hip or knee replacement.



involving the kidney.

replacements in osteolysis.



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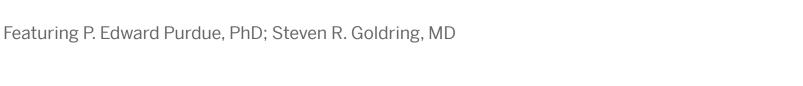
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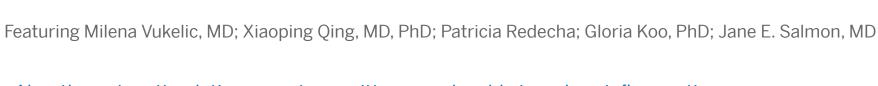
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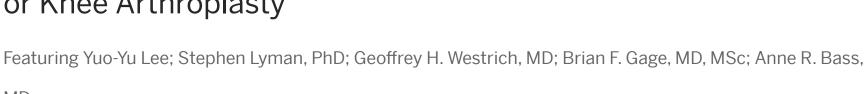
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in







▶ Statins shown to protect against PE although not total VTE following hip or knee replacement.

Synovial Fibroblasts Modulate Macrophage Function in Joint Inflammation



Swendeman, PhD; Kyung-Hyun Park-Min, MD; Nikolaus Binder, PhD; George D. Kalliolias, MD, PhD; Anna

PhD; Bindee Kuriya, MD, FRCPC, MSc; Janet E Pope, MD, MPH, FRCPC; Gilles Boire, MD, MSc; Diane Tin, BPharm; Boulos Haraoui, MD, FRCPC; Carol A. Hitchon, MD

Featuring Vivian P. Bykerk, MD; Pooneh Akhavan, MD, FRCPC; Edward C. Keystone, MD, FRCPC; Juan Xiong,

In lupus, inflammation can be triggered by signals from two key cytokine messengers – interleukin 17 (IL-17) and interleukin 21 (IL-21). To produce these cytokines the body requires a transcription factor called IRF4.

This study was presented at the 2013 ACR Annual Meeting.

support the idea that ROCKs could be promising therapeutic targets for treating lupus.

Featuring Danielle Ramsden-Stein, MD; Susan M. Goodman, MD; Michael M. Alexiades, MD; Wei-Ti Huang, MS; Rebecca Zhu; Mark P. Figgie, MD; Lisa A. Mandl, MD, MPH

Adverse Pregnancy Outcome in Lupus Pregnancies Associated

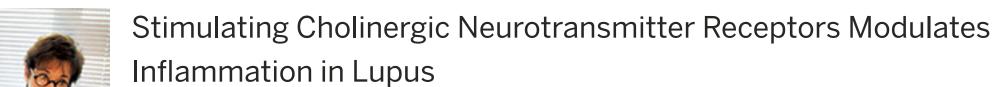


New Discovery in Bone: The Protein Netrin1 is Required for Osteoclast Differentiation

Make an Appointment at HSS



for Patients with Psoriatic Arthritis





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United States and other countries.

Employers

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Monitoring IFN-I activity in SLE plasma could help predict future disease activity, particularly ▶ Netrin1 may be a novel therapeutic target to prevent bone loss leading to loosening of joint

The Effect of Statin Therapy on the Risk of Blood Clots After Hip or Knee Arthroplasty

