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Current Fields of Research

- Pathogenesis of autoimmune diseases
 - Experimental arthritis
 - Experimental lupus
 - In-vivo imaging
 - Regulatory T-cells
 - Antigen presentation
 - Tissue engineering
 - Autoantibodies
 - Role of cytokines

- Outcomes research
 - Disease activity assessment
 - Nature of functional impairment
 - Patient reported outcomes
 - International classification of function
 - Health economics
 - Prediction of response
 - Early arthritis
 - Imaging

- Clinical trials
 - Investigator driven trials
 - Early arthritis
 - Osteoarthritis
 - Industry driven trials

Selected Publications

1. Redlich K, Görtz B, Hayer S, Zwerina J, Doerr N, Kostenuik P et al. Repair of local bone erosions and reversal of systemic bone loss upon therapy with anti-tumor necrosis factor in combination with osteoprotegerin or parathyroid hormone in tumor necrosis factor-mediated arthritis. *Am J Pathol* 2004; 164(2):543-555.
IF: 5.487
2. Schett G, Kiechl S, Redlich K, Oberhollenzer F, Weger S, Egger G et al. Soluble RANKL and risk of nontraumatic fracture. *JAMA* 2004; 291(9):1108-1113.
IF: 21.455
3. Aringer M, Graninger WB, Steiner G, Smolen JS. Safety and efficacy of tumor necrosis factor alpha blockade in systemic lupus erythematosus: an open-label study. *Arthritis Rheum* 2004; 50(10):3161-3169.
IF: 7.677
4. Hayer S, Tohidast-Akrad M, Haralambous S, Jahn-Schmid B, Skriner K, Trembleau S et al. Aberrant expression of the autoantigen heterogeneous nuclear ribonucleoprotein-A2 (RA33) and spontaneous formation of rheumatoid arthritis-associated anti-RA 33 autoantibodies in TNF-alpha transgenic mice. *J Immunol* 2005; 175(12):8327-8336.
IF: 6.068
5. Hoffmann MH, Tuncel J, Skriner K, Tohidast-Akrad M, Türk B, Pinol-Roma S, Serre G, Schett G, Smolen JS, Holmdahl R, Steiner G, The Rheumatoid Arthritis-Associated Autoantigen hnRNP-A2 (RA33) is a Major Stimulator of Autoimmunity in Rats with Pristane-Induced Arthritis. *J Immunol* 2007;179:7568-7576.
IF: 6.068
6. Bobacz K, Sunk IG, Hofstätter JG, Amoyo L, Toma CD, Akira S, Weichhart T, Saemann M, Smolen JS. Toll-like receptors and chondrocytes: The lipopolysaccharide-induced decrease in cartilage matrix synthesis is dependent on the presence of toll-like receptor 4 and antagonized by bone morphogenetic protein 7. *Arthritis Rheum* 2007; 56(6):1880-1893.
IF: 7.677
7. Diarra D, Stolina M, Polzer K, Zwerina J, Ominsky MS, Dwyer D, Korb A, Smolen J, Hoffmann M, Scheinecker C, Van der Heijde D, Landewe R, Lacey D, Richards WG, Schett G. Dickkopf-1 is a master regulator of joint remodeling. *Nature Medicine* 2007;13(2): 156-163.
IF: 26.382
8. Stamm T, Mathis M, Aletaha D, Kloppenburg M, Machold K, Smolen J. Mapping hand Functioning in hand Osteoarthritis: Comparing Self-Report Instruments With a Comprehensive Hand Function Test. *Arthritis Rheum* 2007;57(7):1230-1237.
IF: 7.677
9. Aletaha D, Funovits J, Keystone EC, Smolen JS. Disease Activity Early in the Course of Treatment Predicts Response to Therapy After One Year in Rheumatoid Arthritis Patients. *Arthritis Rheum* 2007;56(10): 3226-3235.
IF: 7.677
10. Smolen JS, Beaulieu A, Rubbert-Roth A, Ramos-Remus C, Rovensky J, Alecock E, Woodworth T, Alten R, OPION Investigators. Effect of interleukin-6receptor inhibition with tocilizumab in patients with rheumatoid arthritis (Option study): a double-blind, placebo-controlled, randomised trial. *Lancet* 2008; 371(9617):987-97.
IF: 28.638

Current Funding

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EU Masterswitch
EU EuMuscNet
Industry

Training of Fellows in Research

Hands on training, participation in courses, exchange opportunities, regular departmental and interdepartmental meetings

WebPages

<http://www.meduniwien.ac.at/rheuma>