

# 10th Dresden Symposium on Autoantibodies

September 22-25, 2011

From Prediction to Prevention of Autoimmune Diseases



- Chairman:** Karsten Conrad (Dresden, Germany)
- Co-Chairmen:** Edward K.L. Chan (Gainesville, USA)  
Marvin Fritzler (Calgary, Canada)  
Rene-Louis Humbel (Esch-sur-Alzette, Luxembourg)  
Pier Luigi Meroni (Milano, Italy)  
Yehuda Shoenfeld (Tel-Hashomer, Israel)
- National Organizing Committee** Rico Hiemann  
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- International Advisory Board** Luis E.C. Andrade (Sao Paulo, Brazil)  
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Falk Hiepe (Berlin, Germany)  
Arno Kromminga (Hamburg, Germany)  
Michael Mahler (San Diego, USA)  
Günter Steiner (Vienna, Austria)  
Alan Wiik (Copenhagen, Denmark)  
Peter Zipfel (Jena, Germany)

Dear Colleagues

From September 22 to September 25, 2011 the Institute of Immunology of the Dresden Technical University will realize in Dresden (Germany) in cooperation with the Association for the Advancement of Immune Diagnostics ([www.gfid-ev.de](http://www.gfid-ev.de)) and the Section Immunodiagnosics of the German Society for Clinical Chemistry and Laboratory Medicine ([www.dgkl.de](http://www.dgkl.de)) the **10th Dresden Symposium on Autoantibodies**. The current symposium entitled "From Prediction to Prevention of Autoimmune Diseases" will focus on different aspects of the pathogenesis, the prediction, novel treatment regimes and prevention of systemic and organ specific autoimmune diseases as well as autoimmune graft rejections. For this, also rare autoimmunopathies such as autoimmune forms of thrombotic microangiopathies, nephropathies, myopathies and cardiomyopathies will be discussed. Furthermore it is a tradition of the Dresden meetings to speak about methodical aspects of autoantibody determinations as well as about diagnostic strategies for autoimmune diseases.

**The purpose of prediction of autoimmune diseases is prevention of the clinical precipitation!** In most diseases with an autoimmune pathology, a long prodrome is associated with the production of disease specific autoantibodies and may provide a window of opportunity to reverse the autoimmune process. However, large prospective studies are necessary to evaluate the risk of disease development in autoantibody positive persons. In type 1 diabetes, autoantibody assays make it possible to accurately identify people at risk of future disease. A similar development can be promised for rheumatoid arthritis. Therefore, both diseases may serve as models for prevention and novel treatment strategies. A prerequisite for prevention and curative therapy is the very early or even predictive diagnosis by biomarker analyses. The improvement, optimization and standardization of autoantibody determination as well as evaluation studies play an important role in this process. We expect that that the anniversary meeting on autoantibodies will stimulate all kind of activities regarding prediction and prevention of autoimmune diseases.

We hope that you will be able to join us for this exciting program.

Karsten Conrad  
On behalf of the Organizing Committee

Thursday, 22.09.2011

12:00 - 22:00	Registration
14:00 - 14:30	<b>Welcome &amp; Introduction</b>
14:30 - 16:00	<p><b>From Prediction to Prevention of Autoimmune Diseases</b></p> <p><b>From prediction to prevention of autoimmune diseases – current state and perspectives</b>  <i>Karsten Conrad (Dresden, Germany)</i></p> <p><b>The value of autoantibodies for the prediction of autoimmune diseases</b>  <i>Yehuda Shoenfeld (Tel Hashomer, Israel)</i></p> <p><b>Antibody proteases as preclinical diagnostic and predictive tools in monitoring clinical autoimmunity conditions</b>  <i>Sergey Suchkov (Moscow, Russia)</i></p>
16:00 - 16:30	Coffee break
16:30 - 18:40	<p><b>Pathogenesis and Prevention of Autoimmune Diseases</b></p> <p><b>Pathogenesis of APS: understanding the antibodies</b>  <i>Pier Luigi Meroni (Milano, Italy)</i></p> <p><b>On the role of nucleic acids and their binding proteins in the pathogenesis of autoimmune arthritis in rats, mice and men</b>  <i>Günter Steiner (Vienna, Austria)</i></p> <p><b>The role of miRNAs in the regulation of immunological functions and the prevention of autoimmunity</b>  <i>Edward K.L. Chan (Gainesville, USA)</i></p> <p><b>The role of Vitamin D in immunologic homeostasis and prevention of autoimmunity</b>  <i>Nancy Agmon-Levin (Ramat Gan, Israel)</i></p> <p><b>Anti-dsDNA antibody production is restricted by the germline composition of DH genes</b>  <i>A. Silva-Sanchez, CR Liu, P. Kapoor, T Schoeb, HW Schroeder (Birmingham, USA)</i></p> <p><b>Prognostic value of antibodies to oxydized low-density lipoprotein in acute coronary syndrome and stable coronary artery disease</b>  <i>Sándor Sipka, R. Laczik, I. Scípö, P. Szodoray, S. Sipka Jr, M. Sokol, P. Soltész (Debrecen, Hungary)</i></p> <p><b>Long pentraxin PTX3 and autoantibodies production in autoimmune diseases</b>  <i>S. Valaperta, M. Monari, C. Alpini, E. Baldassarre, F. Gioia, A. Montanelli (Varese, Italy)</i></p> <p><b>Anti-citrullinated fibronectin antibodies in rheumatoid arthritis are associated with HLA-DRB1 shared epitope alleles</b>  <i>Joyce J.B.C. van Beers, Annemiek Willemze, Rene E.M. Toes, Ger J.M. Pruijn (Nijmegen, The Netherlands)</i></p>
19:00 - 22:00	<b>Welcome Reception</b>

Friday, 23.09.2011

09:00 - 09:40	<p><b>Plenary Lecture</b></p> <p><b>Typ 1 diabetes: A model for disease prediction and prevention</b>  <i>Matthias G. von Herrath (La Jolla, USA)</i></p>
09:40 - 10:30	<p><b>Autoimmune Thrombotic Microangiopathies</b></p> <p><b>Thrombotic microangiopathies: Towards a pathogenetically based classification</b>  <i>Peter Zipfel (Jena, Germany)</i></p> <p><b>The anti-factor H autoantibody associated hemolytic uremic syndrome</b>  <i>Marie-Agnés Dragon-Durey (Paris, France)</i></p> <p><b>Atypical hemolytic uremic syndrome-associated anti-factor H autoantibodies inhibit factor H binding to pentraxin 3</b>  <i>Anne Braunschweig, Stefanie Strobel, <u>Mihály Józsi</u> (Jena, Germany)</i></p>
10:30 - 11:00	Coffee break
11:00 - 12:30	<p><b>Perspectives in the Treatment of Autoimmune Diseases</b></p> <p><b>Therapeutic concepts of targeting autoreactive plasma cells</b>  <i>Falk Hiepe (Berlin, Germany)</i></p> <p><b>A decade of peptide based immunotherapy for autoimmune diseases</b>  <i>Miri Blank (Tel-Hashomer, Israel)</i></p> <p><b>Aptamer based immunotherapy</b>  <i>Annekathrin Haberland (Berlin, Germany)</i></p> <p><b>Attenuation of autoimmunity by anti-human-interleukin-17 aptamer in mouse models</b>  <i>Yoshikazu Nakamura, Hironori Adachi, Akira Ishiguro (Tokyo, Japan)</i></p> <p><b>Clinical impact of neutralizing antibodies against TNF<math>\alpha</math> inhibitors</b>  <i>Arno Kromminga (Hamburg, Germany)</i></p>
12:30 - 14:00	<p>Lunch break</p> <p><b>Industrial Exhibition and Poster Viewing</b></p> <hr/> <p><b>EASI Lunch Meeting</b> (EASI members only)</p>
14:00 - 15:20	<p><b>ASIA syndrome and autoimmune graft rejection</b></p> <p><b>Autoimmune syndromes induced by adjuvants (ASIA)</b>  <i>Yehuda Shoenfeld (Tel Hashomer, Israel)</i></p> <p><b>Induction and role of autoantibodies in early graft rejection</b>  <i>Gavin J. Pettigrew (Cambridge, UK)</i></p> <p><b>Alloimmune response-induced autoimmunity: Role in the pathogenesis of chronic allograft rejection</b>  <i>Thalachallour Mohanakumar (St. Louis, USA)</i></p> <p><b>Autoantibodies against G-protein coupled receptors (GPCRs)</b>  <i>Kai Schulze-Forster (Luckenwalde, Germany)</i></p>
15:20 - 15:50	Coffee break
15:50 - 17:30	<p><b>Presentations of the Candidates for the Dresden Prize on the Study of Autoantibodies</b></p> <p><b>Development and optimization of a sensitive peptide ELISA for autoantibody testing in early and seronegative RA</b></p>

	<p><i>Liesbeth de Winter, Klaartje Somers, Piet Geusens, Dirk Elewaut, Piet Stinissen, Veerle Somers (Diepenbeek, Belgium)</i></p> <p><b>Role of functional antibodies against vascular receptors in systemic sclerosis</b> <i>Mike Becker (Berlin, Germany)</i></p> <p><b>Novel autoantibodies to EIF3 in polymyositis</b> <i>Zoe Betteridge (Bath, UK)</i></p> <p><b>Autoantibodies to cytoplasmic rod/ring structure targeting CTP/GTP synthetic pathway in HCV patients treated with interferon/ribavirin</b> <i>W.C. Carcamo (Gainesville, USA)</i></p> <p><b>Patient derived human monoclonal islet autoantibodies in Type 1 Diabetes</b> <i>Mara Catani (Dresden, Germany)</i></p> <p><b>Peripheral and intrathecal immortalized B cells from multiple sclerosis patients show clonal expansion and produce autoreactive antibodies</b> <i>Judith Fraussen (Limburg, Belgium)</i></p> <p><b>Anti-Neurofascin autoantibodies: Assay development and analysis of inflammatory diseases of the CNS and PNS</b> <i>Judy King Man Ng (Munich, Germany)</i></p> <p><b>Autoantibody secreting cells in the nephritic kidneys of lupus prone NZB/W F1 mice are sensitive to bortezomib</b> <i>Charlotte Starke (Erlangen, Germany)</i></p> <p><b>Discovery of novel antigenic targets for clinically isolated syndrome</b> <i>Myrthe Rouwette, Klaartje Somers, G. Govarts, R. Hupperts, B. van Wijmeersch, B. de Jong, M. Verbeek, V. van Pesch, C. Sindlo, L Villar, Piet Stinissen, Veerle Somers (Diepenbeek, Belgium)</i></p>
17:30 - 18:00	Coffee break & snacks
18:00 - 19:30	<p><b>EASI-Symposium: Rheumatoid arthritis</b></p> <p><b>Value of the ACR Guidelines for the diagnosis</b> <i>Manfred Herold (Innsbruck, Austria)</i></p> <p><b>RA33 antibodies - new data of a marker linked to CCP negative RA with a mild prognosis.</b> <i>Günter Steiner (Vienna, Austria)</i></p> <p><b>CarP antibodies identify RA patients with severe disease progression</b> <i>Leendert Trouw (Leiden, The Netherlands)</i></p> <p><b>Novel autoantibody markers for seronegative rheumatoid arthritis</b> <i>Veerle Somers (Hasselt, Belgium)</i></p> <p><b>Personalized medicine approaches in RA</b> <i>Marvin Fritzler (Calgary, Canada)</i></p>

Saturday, 24.09.2011

09:00-09:30	<p><b>Plenary Lecture</b></p> <p><b>From prediction to prevention of rheumatoid arthritis</b>  <i>Karin Lundberg (Stockholm, Sweden)</i></p>
09:30 - 10:30	<p><b>Autoimmune Heart Diseases</b></p> <p><b>Dilated cardiomyopathy and myocarditis: Classification, clinical and autoimmune features</b>  <i>Alida L.P. Caforio (Padua, Italy)</i></p> <p><b>Chronic Chagas Heart Disease – From pathogenesis to new treatment regimes</b>  <i>Ingolf Schimke (Berlin, Germany)</i></p> <p><b>Pathophysiology of autoimmune associated congenital heart block: From bench to bedside</b>  <i>Mohamed Boutjdir (New York, USA)</i></p>
10:30 - 11:00	Coffee break
11:00 - 12:45	<p><b>Novel Autoantibodies I</b></p> <p><b>Novel autoantibodies, clinical phenotypes and pathogenesis of idiopathic myopathies</b>  <i>Zoe E. Betteridge (Bath, UK)</i></p> <p><b>Anti-Mup44: the first inclusion body myositis-specific autoantibody</b>  <i>Helma Pluk, Baziel G. van Engelen, Ger J.M. Pruijn (Nijmegen, The Netherlands)</i></p> <p><b>Novel autoantibody markers in autoimmune gastrointestinal and liver diseases</b>  <i>Dimitrios P. Bogdanos (London, UK)</i></p> <p><b>Autoantibodies against galectins as novel biomarkers for the antiphospholipid syndrome?</b>  <i>Martin Herrmann (Erlangen, Germany)</i></p> <p><b>Identification of ATP-binding cassette transporter protein F1 (ABC-F1) as a novel autoantigen</b>  <i>Martin Blüthner, Martin Volkmann, Heribert Appelhans, I. Moosbrugger, C. Wiemann, C. Becker, Hans-Peter Seelig (Karlsruhe, Germany)</i></p>
12:45 - 14:00	<p>Lunch break</p> <p><b>Industrial Exhibition and Poster Viewing</b></p>
	<p><b>GFID Lunch Meeting</b> (GFID member only)</p>
14:00 - 14:45	<p><b>Novel Autoantibodies II</b></p> <p><b>PLA2 receptor antibodies as serological markers of idiopathic membranous nephritis are absent in active membranous lupus nephritis</b>  <i>Iva Gunnarsson, Wolfgang Schlumberger, Johan Rönnelid (Lübeck, Germany)</i></p> <p><b>Autoantibodies against chaperonin CCT in glomerular immune deposits and sera in patients with membranous nephropathy: possible role in disease progression</b>  <i>Florence Lefeu, Fabienne Fasani, Chantal Jouanneau, Pierre Ronco, Hanna Debiec (Paris, France)</i></p> <p><b>Dresden Prize Award Ceremony</b>  and Presentation of the winner</p>

14:45 - 16:00	Coffee break Transfer to the Königstein Fortress
16:00 - 23:00	<b>Guided Visit of the Königstein Fortress &amp; Gala Dinner</b> The Königstein Fortress ( <a href="http://www.festung-koenigstein.de">www.festung-koenigstein.de</a> ), located in the beautiful Saxon Switzerland about 40 km South-East from Dresden on the river Elbe, is one of Europe's architecturally and historically most unique mountain fortresses,. It is a unique monument to the art of European fortress construction. Its 750 years' history have made it an impressive configuration of late Gothic, Renaissance, Baroque and 19th century architecture.

Sunday, 25.09.2011

09:00 - 10:30	<p><b>Autoantibody Determinations – History and Perspectives</b></p> <p><b>History of autoimmune serology</b> <i>Rene Louis Humbel (Luxembourg)</i></p> <p><b>Autoantibody testing: Current challenges and future opportunities</b> <i>Marvin Fritzler (Calgary, Canada)</i></p> <p><b>ANCA Testing: Current stage and perspectives</b> <i>Elena Csernok (Bad Bramstedt, Germany)</i></p>
10:30 - 11:00	Coffee break
11:00 - 12:30	<p><b>A Renaissance of the HEp-2 cell Assay?</b></p> <p><b>Multicentre collaboration is needed to reach unified classification of IIF ANA and clinical use of strictly defined findings</b> <i>Alan Wiik (Copenhagen, Denmark)</i></p> <p><b>Determination of non-organ specific autoantibodies by indirect immunofluorescence on HEp-2 cells: Advantages, challenges and perspectives</b> <i>Rico Hiemann, Nadja Röber, Karsten Conrad (Dresden, Germany)</i></p> <p><b>Comparison of an ANA automated reading system with conventional fluorescence microscopy</b> <i>Thorsten Krieger (Hamburg, Germany)</i></p> <p><b>Distinctive features of autoantibodies in and out the context of overt autoimmunity</b> <i>Luis E.C. Andrade (Sao Paulo, Brasil)</i></p> <p><b>Redefining ANA testing: Development of a highly specific ANA HEp-2 test based on immunoabsorption of anti-DFS70 autoantibodies</b> <i>Michael Mahler, Andrea Seaman, Todd Parker, Aaron Llanes, Carol L. Peebles, John G. Hanly, Marvin J. Fritzler (San Diego, CA, USA)</i></p> <p><b>Automatic reading of ANCA-slides: evaluation of the AKLIDES system</b> <i>Jan Damoiseaux, Kathleen Mallet, Mia Vaessen. Jos Austen, and Jan Willem Cohen Tervaert (Maastricht, The Netherlands)</i></p>
12:30 - 14:00	<p>Lunch break</p> <p><b>Industrial Exhibition and Poster Viewing</b></p>
14:00 - 15:30	<p><b>Methodical Aspects of Autoantibody Testing</b></p> <p><b>Synthetic peptides as antigens in immunoassays</b> <i>Michael Mahler (San Diego, USA)</i></p> <p><b>Multiparametric serological testing in autoimmune encephalitis using a recombinant immunofluorescence assay and EUROTIDE technology</b> <i>Klaus-Peter Wandinger, Christine Klingbeil, Patrick Waters, Josep Dalmau, Sandra Saschenbrecker, Kathrin Borowski, Angela Vincent, Christian Probst, Winfried Stöcker (Lübeck, Germany)</i></p> <p><b>Profiling of antiphospholipid antibodies – Association with cerebrovascular events in antiphospholipid syndrome (APS)</b> <i>Karl Egerer, Dirk Roggenbuck, Thomas Büttner, Barbara Lehmann, Annushka Kohn, Philipp von Landenberg, Eugen Feist, Gerd-Rüdiger Burmester, Thomas Dörner (Berlin, Germany)</i></p>

**Congress venue:** Hörsaalzentrum der Technischen Universität Dresden  
Bergstrasse 64, D-01069 Dresden

The modern Lecture Hall Centre of the Technical University of Dresden is located on the University Campus in the South of the city, about 15 minutes walk away from the Central Railway Station.