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Leopoldina Symposium

Vision and Diabetes

March 15th – 16th, 2013

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Congress Organisation

targomed GmbH

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Venue:

Max Planck Institute for Demographic Research

Konrad-Zuse-Straße 1

18057 Rostock, Germany

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Vision and Diabetes

Rostock, March 15th – 16th, 2013

Deutsche Akademie der Naturforscher

in cooperation with

University of Rostock

University of Leipzig

under the auspices of

German Ophthalmological Society (DOG)

Scientific Coordination: Prof. Dr. R. F. Guthoff ML (Rostock)

Prof. Dr. P. Wiedemann, ML (Leipzig)

Information: Universitäts-Augenklinik Rostock

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Organisation: targomed GmbH, www.targomed.de

Dear Colleagues and Friends,

It's our pleasure to invite you to the first Leopoldina-Symposium on "Vision and Diabetes" held in Rostock from 15th to 16th March 2013. Globally, as of 2010, an estimated 285 million people had diabetes, 90 % with type II. Its incidence is increasing rapidly and by 2020 this number is estimated to double with a special impact on Asia and Africa.

Ophthalmology plays a major role in the management of microangiopathic diabetic complications mainly addressing the retinal circulation. The main goal of the meeting is to show the scientific interface between endocrinology and ophthalmology. Recently, it could be demonstrated that diabetic small fibre neuropathy is also affecting corneal innervation at an early stage. Confocal in-vivo microscopy has shown its potential to non-invasively quantify corneal nerve fibre densities. Discussions are ongoing whether retinal nerve fibres assessable by high resolution OCT is also involved to evaluate retinal nerve fibre layers centrally as well as surrounding the optic disc. Unexpectedly, we could not yet demonstrate a close correlation between microangiopathy and small fibre neuropathy as demonstrated in corneal nerve density. Experts will highlight new insights in possible pathomechanisms of both aspects of the disease and will discuss preventive and therapeutic options for the First and Third World.

Prof. Dr. R. F. Guthoff ML

Prof. Dr. P. Wiedemann ML

Program

Friday March 15th, 2013

15:00 Welcome address

15:05 Opening remarks

Rudolf F. Guthoff ML

Session1: Advances in diabetes research

Moderators: Simone Baltrusch, Dan Ziegler

15:10-17:30

Neurodegeneration: Lessons for the diabetic retina

Hans Peter Hammes

Neuropathy in diabetes and prediabetes – diagnostic and therapeutic considerations

Dan Ziegler

Early detection of glial dysfunction

Andreas Reichenbach

Obesity and vascular damage

Matthias Blüher

Mitochondrial dysfunction and diabetes

Simone Baltrusch

Dicarbonyl stress and diabetes

Peter Nawroth ML

In vivo biomarkers of retinal neural and glial changes in diabetes

Edoardo Midena

17:30-18:00 Coffee break

Public Evening Lectures

18:00-19:00

Demography of diabetes mellitus in aging populations

Gabriele Doblhammer-Reiter

Diabetic research – past, present and future

Paul A. Sieving

19:30 – 22:00 Maritime Event

Saturday March 16th, 2013

Session 2: Ophthalmic imaging: The eye as a biomarker for neuropathy

Moderators: Rayaz Malik, Andreas Wree

09:30-11:50

Novel imaging techniques

Jens Dawczynski

Advances in in-vivo imaging of corneal nerves

Oliver Stachs

Software-based imaging and quantitative analysis of the corneal sub-basal nerve plexus

Bernd Köhler

Subbasal epithelial nerve plexus – its present role in the evaluation of diabetic neuropathy

Rayaz Malik

Pathogenesis of corneal nerve damage

Marine Hovakimyan

The subbasal nerve plexus and its relevance for clinical research

Andreas Wree

OCT and diabetic maculopathy can it guide the management

Peter Wiedemann ML

17:30-18:00 Lunch break

Session 3: Diabetes care – today and tomorrow

Moderators: Gabriele Lang, Christof Schober

13:00-15:00

Early detection of neural dysfunction

Thomas Gardner

In- and outpatient diabetes care – a practical approach

Hans-Christof Schober

Risk Factors and Pathogenesis of Diabetic Retinopathy

Gabriele Lang

Therapies on Retinopathy

Francesco Bandello

Recent innovations for antidiabetic therapy

Peter Baumgart

Diabetic neuropathy in Sub-Saharan Africa

Andrey Zhivov

15:00-15:30 Panel Discussion

Chairmen: Guthoff, Wiedemann

Panelists: Ziegler, Gardner, Hammes, Malik, Tiedge

15:00-15:30 Closing remarks

Peter Wiedemann ML

Speakers:

Prof. Dr. Francesco Bandello

University Vita-Salute Scientific Institute San Raffaele, Department of Ophthalmology, Milano, Italy

Prof. Dr. Simone Baltrusch

Universität Rostock, Institut für Medizinische Biochemie und Molekularbiologie

Prof. Dr. Matthias Blüher

Universität Leipzig, Klinik und Poliklinik für Endokrinologie und Nephrologie

Prof. Dr. Peter Baumgart

Clemenshospital GmbH Münster, Klinik für Innere Medizin

Prof. Dr. Jens Dawczynski

Universität Leipzig, Klinik und Poliklinik für Augenheilkunde

Prof. Dr. Gabriele Doblhammer-Reiter

Universität Rostock, Wirtschafts- und Sozialwiss. Fakultät, Empirische Sozialforschung und Demographie

Prof. Dr. Thomas W. Gardner

University of Michigan, Kellogg Eye Center, USA

Prof. Dr. Rudolf F. Guthoff ML

Universität Rostock, Klinik und Poliklinik für Augenheilkunde

Prof. Dr. Peter Hammes

Universität Mannheim, V. Medizinische Klinik – Nephrologie, Hypertensiologie, Endokrinologie, Diabetologie, Rheumatologie