

**The 16th European Association for the Study of
Diabetic eye complications (EASDec) meeting
Århus, May 26.-28. 2006**

FINAL PROGRAMME



Dear colleagues and friends

It is a distinguished pleasure to welcome you all to the 16th European Association for the Study of Diabetic eye complications (EASDec) meeting in Århus. Diabetic retinopathy remains a significant health problem in Europe and elsewhere, and therefore a continuous focus on the disease is needed. Europe has a long and fine tradition for research in diabetic retinopathy, and has contributed with significant results within epidemiology, pathophysiology, diagnostics, and treatment of the disease.

Therefore, a European forum is needed where new developments, ideas, and thoughts within diabetic retinopathy can be exchanged. To fulfill this purpose the EASDec was formed by initiative of one of the pioneers and mentors of the field, professor Eva Kohner, and European research activities related to diabetic retinopathy have experienced a steady growth ever since. I sincerely hope that this year's meeting will contribute to the positive development of the field, that new scientific ideas will be exchanged, and new collaborations and friendships will be initiated. I sincerely hope that you will all enjoy the meeting.

Toke Bek



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PROGRAMME

Friday 26. May

19.00 – 20.30

Mayor's welcome reception at the City Hall

The Mayor of Aarhus has kindly invited the delegates to a welcome reception and buffet at the City Hall as the city's official welcome to the delegates. This event is included in the registration fee. The City Hall is located at walking distance from the official congress hotels (see map).

Saturday 27. May

8.00 – 9.00

Registration at the venue - The Lakeside Lecture Theatres, University of Aarhus

Busses will take delegates from the official conference hotels to the venue – please see the schedules at the hotels.

9.00

Opening ceremony

9.05 – 10.05

PATHOPHYSIOLOGY OF DIABETIC RETINOPATHY. RETINAL BLOOD FLOW.

Chairmen: H Lund-Andersen and J Cunha Vaz

VASOMOTION IN LARGE RETINAL ARTERIOLES IN HEALTHY PERSONS AND IN PATIENTS WITH DIABETIC RETINOPATHY

Peter Jeppesen, Ingunn Gudmundsdottir, Neslihan Saglanmak, Johnny Ottesen, Jesper Larsen, Toke Bek.

Department of Ophthalmology, Århus University Hospital, Århus, Denmark

TWO TYPES OF CALCIUM OSCILLATIONS IN RETINAL VASCULAR SMOOTH MUSCLE CELLS MAY BE INVOLVED IN THE REGULATION OF RETINAL PERFUSION

Anders Hessellund, Christian Aalkjaer, Toke Bek

Dept of Ophthalmology, Aarhus University Hospital, Denmark Dept of Physiology, Aarhus University, Denmark

INCREASING MYOGENIC RESPONSE WITH DECREASING DIAMETER IN RETINAL ARTERIOLES

Peter Jeppesen, Javad S. Hajari, Toke Bek

Department of Ophthalmology, Århus University Hospital, Århus, Denmark

DISTURBANCES IN PRESSURE AUTOREGULATION AND METABOLIC
AUTOREGULATION INTERACT IN RETINAL FLOW DISTURBANCES IN DIABETIC
RETINOPATHY

Javad S. Hajari, Peter Jeppesen, Toke Bek
Department of Ophthalmology, Århus University Hospital, DK-8000 Århus C,
Denmark

10.05 – 10.45 Key note lecture

THE ROLE OF PERFUSION DISTURBANCES IN DIABETIC RETINOPATHY

Toke Bek

10.45 – 11.15 Coffee break

11.15 – 12.15

PATHOPHYSIOLOGY OF DIABETIC RETINOPATHY. METABOLISM

Chairmen: J Cunha Vaz and H Lund-Andersen

THE APOPTOTIC RESPONSE OF RETINAL PERICYTES TO INTERMITTENT HIGH
GLUCOSE: A COMPARISON BETWEEN BOVINE AND HUMAN MODELS.

Elena Beltramo, Elena Berrone, Sonia Tarallo, Massimo Porta.

Dept. Internal Medicine, University of Turin, Italy.

MICROGLIAL CHANGES OCCUR WITHOUT NEURAL CELL DEATH IN SHORT
TERM DIABETIC RETINOPATHY

retinopathy

D Gaucher, JA Chiappare, M Paques, M Simonutti, C Boitard,

JASahel, P Massin, S Picaud

INSERM U-592, Fondation Ophtalmologique Adolphe de Rothschild, INSERM U-561,
Hôpital St. Vincent de Paul, et Hôpital Lariboisière, Paris, France.

GLYCATION END PRODUCTS (AGE) AND DIABETIC RETINOPATHY

T. Meas, MP. Wautier, P. Massin, E. Boulanger, N. Grossin, PJ. Guillausseau,
JL. Wautier.

Services of Medicine B and Ophthalmology, Hospital Lariboisière INSERM U665
University Paris 7 Paris, France

THE EFFECT OF HYPOXIA AND HYPEROXIA ON THE SLOW MULTIFOCAL
ELECTRORETINOGRAM AND MULTIFOCAL OCILLATORY POTENTIALS IN
DIABETIC PATIENTS WITHOUT RETINOPATHY

Kristian Klemp, Michael Larsen, Birgit Sander and Henrik Lund-Andersen

Department of Ophthalmology, Herlev Hospital, University of Copenhagen, Denmark

12.15 – 12.45 General assembly

12.45 – 14.00 LUNCH and poster presentation

14.00 – 15.30 EPIDEMIOLOGY AND PROGRESSION OF DIABETIC RETINOPATHY

Chairmen: AK Sjølie and S Harding

DOES HETEROPLASMY IN BLOOD LEUCOCYTES EXPLAIN RETINAL, RENAL AND CARDIOVASCULAR MANIFESTATIONS IN MIDD (MATERNALLY INHERITED DIABETES AND DEAFNESS)?

Marie Laloi-Michelin, Caroline Ambonville, Sandrine Beaufils, Taly Méas, Marie Virally, Virginie Médeau, Ali Erginay, Michel Paques, Bernard Vialettes, Henri Gin, José Timsit, Gilberto Velho, Christine Bellanné-Chantelot, Pascale Massin, Pierre-Jean Guillausseau, for the GEDIAM (Groupe d'Etude des Diabètes Mitochondriaux). Paris, France

THE INFLUENCE OF DIABETES MELLITUS ON THE OPTICAL ABERRATIONS OF THE HUMAN EYE;

Nanouk G.M. Wiemer, Michiel Dubbelman, Victor A. Sicam, Peter J. Ringens and Bettine C.P. Polak
Free University Medical Centre Amsterdam, The Netherlands

THE PREVALENCE OF DIABETIC RETINOPATHY IN PATIENTS WITH UNDIAGNOSED TYPE 2 DIABETES IN DENMARK. ADDITION STUDY DENMARK.

Toke Bek, Henrik Lund-Andersen, Anja Bech Hansen, Knut Borch Johnsen, Anneli Sandbæk, and Torsten Lauritzen
Department of Ophthalmology, Århus University Hospital. Department of Ophthalmology, Herlev Hospital. Steno Diabetes Center. Institute for General Practice, University of Århus, Denmark

DIABETIC BLINDNESS SIGNIFICANTLY REDUCED IN THE WARMIA AND MAZURY REGION OF POLAND: SAINT VINCENT DECLARATION TARGETS ACHIEVED.

Elisabieta Bandurska-Stankiewicz, Dorota Wiatr
Endocrinology and Diabetology Ward, General District Hospital, Olsztyn, Poland

MULTIFOCAL ERG (mfERG) IN PATIENTS WITH DIABETES MELLITUS AND AN ENLARGED FOVEAL AVASCULAR ZONE (FAZ)

M Tyrberg, V Ponjavic, M Lövestam-Adrian
Dep. of Ophthalmology, Helsingborg, Sweden

INFLUENCE OF METABOLIC CONTROL IN ALTERATIONS OF RETINAL THICKNESS IN TYPE 2 DIABETIC PATIENTS WITH MILD NONPROLIFERATIVE RETINOPATHY

Campos, MV, Duarte L, Pires I, Nunes S, Cunha-Vaz JG, Carneiro M

Serviço de Endocrinologia, Diabetes e Metabolismo Hospitais da Universidade de Coimbra. Associação para Investigação Biomédica e Inovação em Luz e Imagem (AIBILI) Coimbra

15.50 – 16.20 Coffee break

16.20 – 17.00 Key note lecture

AN UPDATE OF THE LIVERPOOL MEETING 2005. SCREENING FOR DIABETIC RETINOPATHY IN EUROPE

Simon Harding

17.00 – 18.00 Case presentations

Moderators: E Agardh, PJ Guillausseau

Cases presented by A Polito, P Massin, T Bek, AK Sjølie

18.00

Busses will take delegates from the University and back to the official conference hotels

19.30

Gala dinner at Centralværkstedet

Centralværkstedet is within walking distance from the official conference hotels (see map).

More than 100 years of history and atmosphere is embedded in the rough walls and steel constructions of Centralværkstedet. Centralværkstedet is one of the six buildings that until recently served as central workshop for repair and maintenance of railway carriages and locomotives. The railway carriages and locomotives are gone now and replaced by gourmet food. The exquisite food workshop is in keeping with the history and tradition of the building. It takes pride in using only the best ingredients and fresh local produce. This event is included in the registration fee

Sunday 28. May

Busses will take delegates from the official conference hotels to the venue – please see the schedules at the hotels

8.30 – 10.30

MACULAR OEDEMA

Chairmen: E Kohner, F Bandello

MECHANISMS FOR DIURNAL VARIATION IN CLINICALLY SIGNIFICANT DIABETIC MACULAR EDEMA

Antonio Polito,MD, Giovanni Polini,MD, Derri Roman Pognuz,MD, Francesca

Menchini,MD, Francesco Bandello,MD

Clinica Oculistica, Università di Udine, Italy

SHORT-TERM EFFECTS OF INTRAVITREAL TRIAMCINOLONE ON RETINAL VASCULAR LEAKAGE AND TRUNK VESSELS DIAMETERS IN DIABETIC MACULAR EDEMA

Martin Vinten, MD, Michael Larsen, MD, DMSc, Henrik Lund-Andersen, MD, DMSc, Birgit Sander, PhD, Morten La Cour, MD, DMSc
Department of Ophthalmology, Herlev Hospital, University of Copenhagen, Denmark

IMPAIRED RETINAL AUTOREGULATION IN SMALL RETINAL ARTERIOLES BEFORE AND AFTER FOCAL LASER TREATMENT FOR DIABETIC MACULOPATHY

Peter Jeppesen and Toke Bek
Department of Ophthalmology, Århus University Hospital, Århus, Denmark

RISK FACTORS FOR PROGRESSION TO PHOTOCOAGULATION OF CLINICALLY SIGNIFICANT MACULAR EDEMA OF TYPE 1 DIABETIC PATIENTS PHOTOSCREENED AT STENO DIABETES CENTER

Birgit Sander, Henrik Lund-Andersen
Dept. of Ophthalmology, University of Copenhagen, Herlev Hospital, Denmark

DIABETIC MACULAR EDEMA: A NEW STAGING BASED ON ENHANCED OCT

Wael Soliman, Birgit Sander
Dept. of Ophthalmology, University of Copenhagen, Herlev Hospital, Denmark

EFFECT OF THE ORAL PKC β INHIBITOR RUBOXISTAURIN ON VISION LOSS IN PATIENTS WITH DIABETIC RETINOPATHY: THE PKC-DRS2 STUDY RESULTS

Aniz Girach, Lloyd P. Aiello, Louis Vignati, Matthew J. Sheetz, Xin Zhi, Matthew D. Davis and Roy C. Milton for the PKC-DRS2 Study Group

PREDICTIVE FACTORS FOR ANATOMIC RESPONSE AFTER INTRAVITREAL TRIAMCINOLONE INJECTION FOR DIFFUSE DIABETIC MACULA EDEMA

Pascale Massin, John Conrath, Amélie Lecleire-Collet, Ali Erginay, Jean Gaudart, Taly Meas, Marie Laloi, Pierre Jean Guillausseau
Ophthalmology Department-Hôpital Lariboisière, Paris, France

PROGRESSION OF MACULAR EDEMA IN DIABETIC PATIENTS

Michael Larsen, Dorte Nellesmann Sørensen, Lotte Colmorn, Charlotte Strøm, Aniz Girach, Henrik Lund-Andersen, Birgit Sander
Department of Ophthalmology, Herlev Hospital, University of Copenhagen, Denmark. Lilly Research Labs, Surrey, United Kingdom

10.30 – 11.15 Key note lecture

THE PHYSIOLOGY OF LASER AND VITRECTOMY IN DIABETIC RETINOPATHY
Einar Stefánsson

11.15. – 11.20

Closing of the meeting

11.20 – 12.00
Lunch

POSTERS

1. PROTEOME PROFILING DIABETIC PLASMA AND IDENTIFICATION OF MARKER PROTEINS FOR PROLIFERATIVE RETINOPATHY - A PILOT STUDY

Henrik Vorum*, Bent Honoré**, and Toke Bek*

*Department of Ophthalmology, Aarhus University Hospital, Denmark, and

**Department of Medical Biochemistry, University of Aarhus, Denmark.

2. OPHTHALMIC PARAMETERS AND THE PRESENCE OF CLINICALLY SIGNIFICANT MACULAR OEDEMA

Knudsen LL, Lervang HH, Lundbye-Christensen S and Gorst-Rasmussen A
Århus University Hospital, Denmark

3. NON-OPHTHALMIC PARAMETERS AND THE PRESENCE OF CLINICALLY SIGNIFICANT MACULAR OEDEMA.

Knudsen LL, Lervang HH, Lundbye-Christensen S and Gorst-Rasmussen A
Århus University Hospital, Aalborg Sygehus South, denmark

4. RESULTS OF LASER TREATMENT FOR EXUDATIVE DIABETIC MACULAR EDEMA

Vladimir Korda, Jan Studnicka, Eva Rencova

Dep. of Ophthalmology, Charles University Prague, Medical Fakulty in Hradec Kralove, Czech Republic

5. AMBLYOPIA SEEMS TO LIMIT THE DEVELOPMENT OF DIABETIC RETINOPATHY COMPARED TO NORMAL EYES

Torben Lykke Sørensen, MD, DMSc, Lisa Fryksen, Henrik Lund-Andersen, MD, DMSC

Department of Ophthalmology, Herlev Hopsital, Denmark

6. DIABETIC RETINOPATHY IN THE CZECH REPUBLIC – WHERE IS THE TRUTH?

1Tomas Sosna, 1Petr Boucek, 2Leos Rejmont, 1Antonij Slavcev

1Center of Diabetology, Institute for Clinical and Experimental Medicine, Prague; 2Central Military Hospital, Prague, Czech Republic

7. LACK OF CORRELATION BETWEEN RETINOPATHY LESIONS IN LOCALIZED AREAS OF THE FUNDUS AND KNOWN RISK FACTORS FOR PROGRESSION OF THE DISEASE

Marianne N. Hove, Jette K. Kristensen, Torsten Lauritzen, Toke Bek

Dept of Ophthalmology, Århus University Hospital, Denmark

8. GEOMETRY OF RETINAL VESSELS AND DIABETIC RETINOPATHY - A FOLLOW-UP STUDY.

Birgitte L. Justesen, Paresh Mistry, Niels Løgstrup, Kirsten O. Kyvik, Anders Green, Alun Hughes, Simon Thom, Anne Katrin Sjølie.
Department of Ophthalmology, Odense University Hospital, denmark

9. CORRELATION BETWEEN METABOLIC CONTROL AND PROGRESSION OF DIABETIC RETINOPATHY

Campos, M.V.^{1*}, Duarte L.², Pires I. ², Nunes S. ², Cunha-Vaz J.G. ², Carvalheiro M. ¹
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² Associação para Investigação Biomédica e Inovação em Luz e Imagem (AIBILI)
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