

VISION 2020

How has eye banking contributed to this global initiative?

XXXII Annual Meeting of the EEBA

16 – 18 January 2020 | Scientific Programme

*Please note that there may be some minor changes.***Conference Venue: Schloss Herrenhausen**

Herrenhäuser Straße 5 | 30419 Hannover

16 January 2020**11:30 Registration open****14:30-16:00 Guided City Tours****12:00-18.45 Wetlabs and Workshops**

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Limbal Stem Cells (12.-14.00 en)*Workshop leaders: V. Mittal, C. Figueiredo, E. Chankiewitz, T. Fuchsluger***Techniques for Lamella Preparation** (14:00-15:30 dt, 15:45-17.15 en)*Workshop leaders: A. Haus, S. Wahl, L. Blomberg***Cell counting** (14:00-15:30 en, 17:30-18.45 dt)*Workshop leaders: J. Schroeter, D. Ponzin, P. Maier***Slit Lamp** (15:45-17:15 dt, 17:30-18.45 en)*Workshop leaders: I. Dekaris, M. Walckling***Donor cases** (14:00-15:30 en, 17:30-18.45 dt)*Workshop leaders: J. Kniese, H. Beele***Donor consent & next of kin interview** (14.00-15.30 en, 15:45-17.15 en)*Workshop leaders: S. Pfnür, D. Trojan***IT & data banking** (15:45-17.15 en)*Workshop leaders: J. Klerke, M. Witt***Fundraising & Promotion** (17:30-18.45 en)*Workshop leaders: P. Dahl, G. Jones, G. Pollock***19:00 Welcome Reception***E. Nagel**University Bayreuth, Institute for Medicine Management and Health Sciences, Bayreuth, Germany**M. Börgel**German Society for Tissue Transplantation, Hannover, Germany***19:10 Photo & Art Contest Exhibition and Get-together**



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07:30 Registration open

08:15 *EEBA Committee Meeting (Closed)*

10:00 Opening Ceremony - The impact of Vision 2020 in eliminating avoidable blindness

T. Brunotte

VolkswagenStiftung

I. Dekaris

European Eye Bank Association President

P. Maier

Speaker of the DOG-Section Tissue Transplantation and Biotechnology,

University Clinic of Freiburg, Department of Ophthalmology, Freiburg, Germany

M. Börgel

German Society for Tissue Transplantation, Hannover, Germany

10:30 Niels Ehlers Memorial

A. Viestenz

University Clinic of Halle, Department of Ophthalmology, Halle, Germany

F. Wilhelm

Augen im Zentrum, Greifswald, Germany

10:50 Session I: Banking - Quality assurance, microbiological safety, corneal storage

Chairs: M. Acharya, J. Schroeter

10:50 Significant differences between specular microscopy and corneal bank endothelial cell counts – a pilot study

K. Boden

Knappschafts-Klinikum Sulzbach, Augenlinik, Sulzbach, Germany

11:00 New HECplus protocol to further improve the accuracy of pan-endothelial viability measurement

S. Al-Bourgol

Jean Monnet University, Corneal Graft Biology, Engineering and Imaging Laboratory, EA2521, Faculty of Medicine, Saint Etienne, France

11:10 Comparison of the Performance of Traditional Cold Corneal Storage Media to a New Cold Corneal Storage Media with Antimycotic Tablet

M. Tramber

Miracles In Sight, Vice President of Operations, Winston Salem, North Carolina, United States of America

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- 11:20 Changes in thickness and curvature of human corneal grafts in dextran-containing culture medium before keratoplasty
L. Hamon
Saarland University Medical Center, Department of Ophthalmology, Homburg, Germany
- 11:30 The active storage machine (ASM) allows detecting traces of corneal refractive surgery: case report
S. Al-Bourgol
Jean Monnet University, Corneal Graft Biology, Engineering and Imaging Laboratory, EA2521, Faculty of Medicine, Saint Etienne, France
- 11:40 A novel preservation technique for long-term storage and ambient distribution of transplantable human corneas
L. E. Sidney
University of Nottingham, Academic Ophthalmology, Nottingham, United Kingdom

11:50 Short Break**12:10 Session II: Banking – lamellar transplants & cell preparation***Chairs: S. Hennerbichler, C. Figueiredo*

- 12:10 Clinical Outcome of Descemet Membrane Endothelial Keratoplasty (DMEK) using Corneal Grafts from Septic versus Non-Septic Donors
S. Sajet
NIIOS, Amnitrans Eyebank Rotterdam, Rotterdam, Netherlands
- 12:20 Pre-Cut LaMEK enables cell recovery through rest period before surgery
N. Hofmann
German Society for Tissue Transplantation, Hannover, Germany
- 12:30 Towards a limbal stem cell xenofree GMP production in Eye Bank.
N. Otero
Barcelona Tissue Bank, Banc de Sang i Teixits, Barcelona, Spain
Biomedical Research Institute, IIB-Sant Pau, Barcelona, Spain
- 12:40 Assessment of Effectiveness of Serum Eyedrops Using a Corneal Wound Healing Model *In Vitro*
V. Barrera
NHS Blood and Transplant, Tissue and Eye Services R&D, Liverpool, United Kingdom
- 12:50 Setting up a serum eye drops program in an Austrian blood and tissue bank
S. Hennerbichler
Red Cross Blood Transfusion Service of Upper Austria, Blood and Tissue Bank, Linz, Oberösterreich, Austria

13:00 Lunch

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Decontamination of whole donor eye globes with a commercial antibiotic cocktail medical device

*V. Lambert**University Hospital Liege, Ophthalmic Tissue Bank, Liege, Belgium*

Corneal endothelial cell counting using two different endothelial cell analysis systems

*P. R. Merz**University-Hospital Heidelberg, Department of Ophthalmology/ Lions Eye Bank, Heidelberg, Baden-Württemberg, Germany*

Screening for cornea gutatta during organ culture.

*S. Ninotta**Etablissement français du sang, Eye bank of Saint-Etienne, Saint-Etienne, France*

Extraction of crystalline proteins from porcine eye lens and evaluation of their relation with oxidative stress

*L. Giurgola**Alchilife S.r.l., Research and development, Ponte San Nicolò, Italy*

A quantitative method for testing the toxicity in a human retina ex-vivo model

*J. D'Amato Tothova**Alchilife Srl, Ponte San Nicolò, Italy*

Amniotic membrane - the processing, storage, supply, and its use in ophthalmology.

*B. I. Rymgayłto-Jankowska**Department of Ophthalmology, Medical University of Lublin, Lublin Eye Bank, Lublin, Poland
Lublin Eye Bank, Poland, Lublin, Poland*

Optimization of Human Amniotic Membrane Decellularisation

*A. Joseph**NHS Blood and Transplant, Tissue and Eye Services R&D, Liverpool, United Kingdom***14:00 Session III: Transplantation - Lamellar grafts, donor characteristics and challenges***Chairs: I. Martinache, L. Blomberg*

14:00 The safety of the donor cornea for the patient

*A. Rijneveld**ETB-BIS life, Cornea Bank, Beverwijk, Netherlands*

14:10 New device for penetrating keratoplasty surgery to stop and treat an intraoperative expulsive hemorrhage

*J. Lamarca Mateu**Universitat Internacional de Catalunya, Anatomia, Sant Cugat del Vallès, Spain*

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14:20 Is cataract surgery with the Nano-Laser an endothelial protective procedure? Corneal endothelial cell counts and central corneal thickness following Nano-Laser cataract surgery.

*L. Blomberg**DGFG, Cornea Bank Hannover, Hannover, Lower Saxony, Germany**Augenzentrum Hildesheim-Alfeld, Medicinum, Hildesheim, Lower Saxony, Germany*

14:30 Refractive outcome after triple DMEK

*M. Walckling**University of Rostock, Department of Ophthalmology, Rostock, Mecklenburg-Western Pomerania, Germany*

14:40 Tissues with issues: How to prevent waste of sub-optimal DMEK grafts?

*E. Groeneveld-van Beek**NIIOS, Amnitrans Eyebank Rotterdam, Rotterdam, Netherlands*

14:50 Innovative and easily accessible dry-preparation of human amniotic membrane for enhanced treatment of ocular surface and wound care conditions

*A. Hopkinson**University of Nottingham, Academic Ophthalmology, Division of Clinical Neuroscience, Nottingham, United Kingdom**NuVision Biotherapies, Nottingham, United Kingdom***15:00 Coffee Break**

15:45 Business presentation *Schaumaplast*

**16:00 Session IV: Ophthalmological therapies - new methods & applications***Chairs: P. Rooney, E. Chankiewitz*

16:00 Decellularisation of Conjunctiva for Development of a New Composite Allograft to Treat Severe Ocular Diseases

*V. Barrera**NHS Blood and Transplant, Tissue and Eye Services R&D, Liverpool, United Kingdom*

16:10 Femtosecond Laser assisted penetrating keratoplasty for treating infective keratitis

*M. H. M. H. Hosny**Cairo University, Ophthalmology, Giza, Egypt*

16:20 Expert and user feedback on the application of AmnioClip-plus

*N. Hofmann**German Society for Tissue Transplantation, Hannover, Germany*

16:30 Simple Conjunctival Epithelial Transplantation (SCET) in primary pterygium surgery

*M. Bertolin**Veneto Eye Bank Foundation, Zelarino, Italy*

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16:45 Meeting – Eye Bank Corresponding Members and Directory SIG

19:30 Gala Dinner and Award Ceremony of the Photo & Art Contest*Location: Altes Rathaus***18 January 2020****08:00 Registration open**

08:30 Business Meeting (Open)

09:30 Session V: Innovation*Chairs: K. Engelmann, H. Reinshagen*

09:30 Introducing Engineerd Descemet Membrane Endothelial Keratoplasty (eDMEK)

*M. Binner**Leibniz Institute of Polymer Research Dresden, Institute Biofunctional Materials, Dresden, Saxony, Germany*

09:40 Descemet's membrane biomimetic micro-topography differentiates human mesenchymal stem cells into corneal endothelial-like cells

*A. Gutermuth**Fraunhofer Institute for Production Technology, Applied Cell Biology, Aachen, North Rhine-Westphalia, Germany*

09:50 Nanofiber membranes as substitutes for posterior lamellar keratoplasty

*T. Fuchsluger**University of Rostock, Department of Ophthalmology, Rostock, Mecklenburg-Western Pomerania, Germany*

10:00 Protecting the corneal endothelium by silencing of pro-apoptotic proteins

*T. Fuchsluger**University of Rostock, Department of Ophthalmology, Rostock, Mecklenburg-Western Pomerania, Germany***10:20 Session VI: Donation and related processes***Chairs: P. Dahl, A. Hakamäki*

10:20 Experience in Willingness of Corneal Donation in an Institute for Legal Medicine with Forensic Cases of Death and Deceased in Clinical Mortuary

*M. Lüders**Universitätsklinikum Hamburg-Eppendorf, Institut für Rechtsmedizin, Hamburg, Hamburg, Germany*

10:30 Cornea donation in Germany: Obtaining consent

*S. Schmidt**German Society for Tissue Transplantation, Hannover, Germany*



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10:40 Ethical and legal considerations in the management of ocular tissue donations from non-competent donors: the experience of the Veneto Eye Bank Foundation

A. Pagin

Fondazione Banca degli Occhi del Veneto ONLUS, Venezia, Italy

11:00 Coffee Break

11:15 Guided Poster Tour II

Chair: S. Wahl

Should donor age be included as exclusion criteria for the cornea donation?

X. Lafarge

Etablissement Français du Sang Nouvelle Aquitaine, Eye Bank, Bordeaux, France

Outcomes of Therapeutical Penetrating Keratoplasty for Fungal Keratitis

J. Quadrado Gil

*Centro Hospitalar e Universitário de Coimbra, EPE, Ophthalmology Department, Coimbra, Portugal
University of Coimbra, Faculty of Medicine, Coimbra, Portugal*

Influence of a donor after cataract surgery on the success of a DMEK

A. Haus

Eye Clinic Sulzbach/Saar, Sulzbach, Saarland, Germany

Review of reported DMEK graft preparation failures and analysis of possible contributing factors

U. Paulus

NHS Blood and Transplant, Bristol, United Kingdom

Gaining Consent for Cornea Donation from deceased Patients' Relatives - Evaluation of a Communication Training of employees in Cornea eye banks using the Aachen model as an example

S. Stiel

Hannover Medical School, Institute for General Practice, Hannover, Lower Saxony, Germany

3D Bioprinting of corneal stromal models using keratocyte-loaded hydrogels

M. Rohde

Uniklinik RWTH Aachen, Eye Clinic, Aachen, Germany

Validation and assessment of an antibiotic decontamination manufacturing protocol for vacuum-dried-human amnion

E. R. Britchford

University of Nottingham, Academic Ophthalmology, Division of Clinical Neuroscience, United Kingdom

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Charity vs. self-sufficiency: challenges in establishing donation systems, cornea banking and transplantation in developing countries

Chairs: A. T. Magava, M. Börgel

11:45 VISION 2020 – preventing blindness beyond national borders

E. Nagel

University Bayreuth, Institute for Medicine Management and Health Sciences, Bayreuth, Germany

12:00 Training and transplantation programmes in Peru

A. Viestenz

University Clinic of Halle, Department of Ophthalmology, Halle, Germany

12:10 Corneal transplantation in Cameroon

F. Wilhelm

Augen im Zentrum, Greifswald, Germany

12:20 Experiences and learnings from Indian Community eyebank

M. Acharya

Dr. Shroff's Charity Eye Hospital, New Dheli, India

12:30 Roundtable: Corneal transplantation and tissue management in Africa

Moderation: M. Börgel

12:40 Training in corneal transplantation – a chance for the patients

L. Njikam Fokunang

Kilimanjaro Christian Medical Centre, Department of Ophthalmology, Moshi, Tanzania

12:50 Challenges and status quo of patient care with corneal transplants in Tanzania

E. J. Muna

Kilimanjaro Christian Medical Centre, Department of Ophthalmology, Moshi, Tanzania

13:00 Cornea transplantation in Rwanda: Lessons learnt in the last 10 years.

J. Nkurikiye

Rwanda International Institute of Ophthalmology, Kigali, Rwanda

13:10 10 Years Journey in Eye Banking Success – challenges and plans going forward

R. Peerbhoy, P. Singh

LIONS Sightfirst Eye Hospital, Loresho, Nairobi

13:20 Activities of the IAPB Network in preventing blindness

A. T. Magava

IAPB Sub-Saharan Africa Chair, Harare, Zimbabwe

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13:30 Session VIII: VISION 2020 II – Ethics
Chairs: E. Nagel, M. Börgel

13:30 Ethics in tissue donation networks
G. Pollock
University Melbourne, Centre of Eye Research Australia, Melbourne, Australia

14:00 Closing Ceremony

14:15 Farewell
Lunch to go