8th EuCornea Congress

LISBON

6–7 October

FIL – International Fair of Lisbon, Portugal

www.eucornea.org
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EuCornea Board

President
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Rudy Nuijts THE NETHERLANDS
Vincenzo Sarnicola ITALY
Theo Seiler SWITZERLAND
Marie-José Tassignon BELGIUM
Dear Colleagues

On behalf of the Board and Officers of EuCornea, it is my great pleasure to welcome you to Copenhagen for the 7th EuCornea Congress.

Over the course of the next two-days delegates will enjoy a choice of excellent sessions. The latest developments in Cornea and Ocular Surface Disease will be presented by leaders in the field, in the four Symposia, eight Focus Sessions, four Instructional Courses and six Free Paper Sessions. As part of the abstract presentations, delegates can look forward to the interactive sessions that will be taking place at the poster village on Friday.

The EuCornea Medal lecture will take place during the Opening Ceremony on Friday at 4pm. This year, this esteemed lecture will be presented by Prof. Paolo Rama on the topic of ‘Cultivated Stem-cells for Ocular Surface Disorders: Current Application and Future Perspectives’.

EuCornea is delighted to be once again partnering its annual meeting with the XXXIV Congress of the ESCRS, the 16th EURETINA Congress and the WSPOS Sub-Specialty Day. As part of this collaboration, a joint EuCornea/ESCRS session will take place on Saturday on the topic of ‘Modern Corneal Transplantation’.

I am privileged to have been President of EuCornea for the past two years and would like to take this opportunity to thank you all for participating in my final EuCornea Congress as President. It has been rewarding to see the EuCornea Congress develop over the past few years. I look forward to seeing the society grow in the future.

Finally I wish you all a wonderful congress and hope that you enjoy your stay in Copenhagen.

Francois Malecaze
President, EuCornea
## Programme Overview

### Friday 9 September

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<td>Corneal Transplantation</td>
<td>Basic Science</td>
<td>Infections and Inflammation</td>
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<td>Focus Session: 1</td>
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<td>Anterior Lamellar Keratoplasty</td>
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<td>Management of Corneal Astigmatism</td>
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<td>F. Malecaze, K. Krootila &amp; D. Reinstein</td>
<td>P. Fagerholm &amp; N. Lagali</td>
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<td>Challenging Cases</td>
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<td>H. Dua, B. Allan &amp; S. Hannush</td>
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### Saturday 10 September

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OPENING CEREMONY

Friday 9 September
Hall H1
16.00 – 17.00

16.00  F. Malecaze  FRANCE, PRESIDENT, EUCORNEA
Introduction and Welcome Address

16.05  J. Hjortdal  DENMARK
PAST-PRESIDENT OF THE DANISH OPHTHALMOLOGICAL SOCIETY

16.10  P. Rama  ITALY
EuCornea Medal Lecture

16.40  F. Malecaze  FRANCE
Presentation of EuCornea Medal

16.45  F. Kruse  GERMANY
Presentation of Plaque

16.50  F. Malecaze  FRANCE
Best Poster Award

16.55  Closing Remarks

17.00  End of Session

EuCornea Medal Lecture

Cultivated Stem-cells for Ocular Surface Disorders: Current Application and Future Perspectives

Paolo Rama  ITALY

Born on March 6, 1959 in Feltre. He graduated in Medicine and Surgery in 1985 at Padua University and became a Specialist in Ophthalmology in 1989 at the University of Modena. He obtained a “Research Fellowship” (1991/1992) at the Wilmer Institute of the Johns Hopkins University, Baltimore. From 1988 up to 1993 he was Assistant at the Ophthalmology Unit of Mestre Hospital; from 1993 to 2000 he moved to Venice Hospital as Chief of the Corneal and Ocular Surface Disease Service and of Reconstructive Plastic Surgery. From September 2000 to November 2005 he was Chief of the Corneal and Ocular Surface Disease Service at the San Raffaele Scientific Institute, from November 1, 2005 to 2009 he was Director of the Department of Ophthalmology at San Raffaele Scientific Institute. Since November 2009 the Ophthalmology Department has been divided into two separate Units and he has been nominated Director of the Cornea and Ocular Surface Unit. From 1986 to 1996 he went to Africa on several occasions as a volunteer. His main fields of competence are corneal and ocular surface diseases and infectious pathologies. He was the first person to apply the NGF eye-drop treatment in patients affected by neurotrophic corneal ulcers: results published in The New England Journal of Medicine (1998). He was also one of the first surgeons to transplant cultured corneal limbal epithelial stem cells: preliminary results were published in the Transplantation Journal (2001) and long term results have been published recently in The New England Journal of Medicine (2010). He is a member and consultant of the Scientific Committee of the “Banca degli Occhi del Veneto”; his active contribution has been important for its development and growth. He has attended numerous national and international congresses as a guest speaker and surgeon and has published more than 100 scientific papers (both in Italian and English) together with 49 peer-reviewed articles. He has also contributed to the publication of six books (three of which were published in the USA).
Friday 9 September

Hall H1

08.00 – 09.00
Free Paper Session 1

Corneal Transplantation

Moderator: P. Fournié FRANCE
V. Sarnicola ITALY

08.00 P. Stodulka, M. Horackova, M. Sramka CZECH REPUBLIC
Hydroseparation of descemet membrane
endothelial graft for DMEK

08.10 J. Alió del Barrio, J. Alio y Sanz, M. El Zaif, M. de Miguel, N. Makdisi, W. Harb SPAIN
Human autologous adipose derived stem cells
are a source for cell therapy and regenerative
medicine of the corneal stroma

08.20 M. Bhogal, B. Allan, J. Mehta SINGAPORE
Graft viability in endothelial keratoplasty – new
tools to assess cell damage at all stages of
transplantation

08.30 T. Garcin, G. Thuret, E. Calyaka, G. Hor, P. Herbevin, P. Gain FRANCE
Specular microscopy of long term stored corneas
in an innovative bioreactor

08.40 M. Price, F. Price, P. Calhoun, C. Kollman, J. Lass USA
Ten year endothelial cell loss with descemet
stripping endothelial keratoplasty (DSEK)
compared with penetrating keratoplasty in the
cornea donor study

08.50 F. Price USA
How intraoperative OCT helps with anterior
segment surgery, especially DMEK

09.00 End of Session

Hall H3

08.00 – 09.00
Free Paper Session 2

Basic Science

Moderators: H. Dua UK
T. Fuchsluger GERMANY

08.00 D. Patel, A. Sisley, J. Zhang, C. McGhee NEW ZEALAND
Seeding a novel collagen scaffold with keratocytes
to emulate corneal stroma

08.08 N. Zakaria, S. Matthyssen, E. Ferraris, J. Patterson, M. Tassignon BELGIUM
Cellularisation of 3D printed recombinant human
collagen type III scaffolds using keratocytes and
corneal MSCs

08.16 S. Mahajan, D. Trieme, F. Kruse, T. Fuchsluger GERMANY
Screening of apoptosis markers in human corneal
cells

08.24 A. Hammer, A. Conti, S. Kling, O. Richoz, D. Tabibian, F. Hafezi SWITZERLAND
Evaluation of the inflammatory response following
excimer laser treatment with identical ablation
profiles, using different irradiances

08.32 A. Gruenert, S. Sousa, M. Czugala, F. Kruse, G. Geerling, T. Fuchsluger GERMANY
The effect of lutein based dyes on corneal
endothelial cell viability

08.40 G. Thuret, Z. He, F. Forest, A. Jun, L. Kallay, M. Pooch, P. Gain FRANCE
New evidence suggesting that the central
endothelium presents features of peripheral
endothelium in fuchs endothelial corneal dystrophy

08.48 M. Czugala, O. Mykhaylyk, S. Wesselborg, F. Kruse, C. Plank, T. Fuchsluger GERMANY
Magnetic nanoparticles for targeted antiapoptotic
gene therapy of corneal endothelial cells

09.00 End of Session
Friday 9 September

Hall H2
08.00 – 09.00
Free Paper Session 3

Infections and Inflammation

Moderators:  J. Dart UK  
M. Labetoulle FRANCE

08.00  M. Saldanha, A. Tam, E. Cote, A. Slomovic,  
A. Lichtinger CANADA  
Shifting trends in bacterial keratitis in Toronto – a 16 year review

08.10  I. Sobral, A. Martins, A. Russo, E. Costa, A. Rosa,  
M. Quadrado, J. Murta PORTUGAL  
Infectious keratitis results at a tertiary referral centre – nine year results

08.20  S. Tan, A. Walkden, A. Qamruddin, A. Hamilton,  
L. Au, A. Brahma, F. Carley UK  
Twelve year analysis of microbial keratitis trends at a tertiary hospital – the Manchester experience

08.30  E. Pedrotti, M. Passilongo, E. Bruni, S. Ficial,  
A. Fasolo, G. Marchini ITALY  
Confocal microscopy for diagnosis and management of fungal keratitis

08.40  S. Farrell, C. Murphy, S. Knowles IRELAND  
Fungal keratitis in the Republic of Ireland – a nationwide review of all cases of fungal keratitis over a six year period

08.50  A. Verma, D. Chauhan, D. Tuli, D. Jaryal,  
D. Sood INDIA  
Fungi as a cause of keratitis – a case series from a subHimalayan rural referral centre

09.00  End of Session

Hall H1
09.00 – 10.30
Focus Session 1

Anterior Lamellar Keratoplasty

Moderators:  P. Fournié FRANCE  
V. Sarnicola ITALY

09.00  E.J. Holland USA  
Why prefer DALK over PK – outcomes and new indications

09.13  P. Fournié FRANCE  
DALK standard technique – cannula-DALK vs needle-DALK

09.26  R. Nuijts THE NETHERLANDS  
DALK – tips and tricks

09.39  V. Sarnicola ITALY  
All the ruptures can be fixed

09.52  R. Fogla INDIA  
DALK as much as possible – all the indications

10.05  S. Hannush USA  
Big bubble DALK – corneal layers

10.18  Discussion

10.30  End of Session
Friday 9 September

Hall H3

09.00 – 10.30
Focus Session 2

Corneal Translational Research

Moderators: T. Fuchsluger GERMANY
            B. Malyugin RUSSIA

09.00  S. Deng USA
       Standardisation of limbal stem cell culture for transplantation

09.15  J. Mehta SINGAPORE
       Ex vivo migration of corneal endothelial cells

09.30  S. Kinoshita JAPAN
       The clinical research on corneal endothelial cell injection therapy

09.45  T. Fuchsluger GERMANY
       Nanofiber-based biomatrix for ocular surface reconstruction

10.00  K. Tonaeva RUSSIA
       Cell therapy with limbal MMSCs to prevent corneal graft rejection

10.15  Discussion

10.30  End of Session

Hall H1

11.00 – 12.30
Focus Session 3

Management of Corneal Astigmatism

Moderators: K. Krootila FINLAND
            F. Malecaxe FRANCE
            D. Reinstein UK

11.00  P. Vinciguerra ITALY
       Correcting astigmatism by subtractive refractive surgery

11.15  D. Reinstein UK
       Correcting irregular corneal astigmatism

11.30  L. Laroche FRANCE
       Corneal incisional surgery – intrastromal and arcuate and T-cut techniques

11.40  N. Alpins AUSTRALIA
       Surgically induced astigmatism and flattening effect for cataract surgery

11.55  L. Kessel DENMARK
       Managing corneal astigmatism with intraocular surgery

12.05  L. Gauthier FRANCE
       Total astigmatism versus anterior astigmatism of the cornea: discovery or return to the evidence?

12.15  Discussion

12.30  End of Session
Friday 9 September

Hall H3

11.00 – 12.30
Focus Session 4

Aniridia

Moderators: P. Fagerholm SWEDEN
            N. Lagali SWEDEN

11.00  U. Edén SWEDEN
       Aniridia – the disease

11.15  P. Fagerholm SWEDEN
       The development of the keratopathy

11.30  N. Lagali SWEDEN
       What is happening in the cornea – in vivo confocal microscopy aspects

11.45  R. Ihnatko SWEDEN
       Protein content in the tears – a clue to a treatment?

12.00  A.J. Shortt UK
       Clinical management of aniridia related keratopathy

12.15  Discussion

12.30  End of Session

Hall H1

14.00 – 15.30
Main Symposium 1

Corneal Infections

Moderators: J. Dart UK
            M. Labetoulle FRANCE

14.00  M. Burton UK
       How to make the diagnosis?

14.20  F. Hafezi SWITZERLAND
       Treatment controversies in bacterial keratitis

14.40  N. Sharma INDIA
       Fungal keratitis – optimising therapy

15.00  J. Dart UK
       Acanthamoeba keratitis – diagnostic and management solutions

15.20  Discussion

15.30  End of Session
Friday 9 September

Hall H3

14.00 – 15.30

Instructional Course 1

Preparation of Lamellar Grafts in an Eye Bank setting

Organised by EEBA (European Eye Bank Association)

Moderator: B. Bachmann GERMANY
J. Hjortdal DENMARK

14.00 D. Ponzin, A. Ruzza ITALY
Preparation of ultra-thin DSAEK grafts – tips and tricks

14.15 E. Groeneveld-van Beek THE NETHERLANDS
Precut tissues for DMEK-PRO

14.30 S. Heinzelmann GERMANY
Precut tissues for DMEK-CONTRA

14.45 F. Kruse GERMANY
Quality and donor criteria for posterior lamellar grafts

15.00 V. Borderie FRANCE
Quality and donor criteria for anterior lamellar grafts

15.15 B. Bachmann GERMANY
Multiple grafts from one donor button – organization, traceability, legal aspects and preparation methods

15.30 End of Session

Hall H1

17.00 – 18.30

Main Symposium 2

Challenging Cases presented by the experts

Moderators: B. Allan UK
H. Dua UK
S. Hannush USA

17.00 S. Hamada UK
Cornel Ectasia after Keratoplasty

17.09 K. Colby USA
Large non-pigmented limbal lesion

17.18 L. Fontana ITALY
DM perforation during DALK

17.27 A. Slomovic CANADA
Femtosecond laser tattoo for symptomatic glare

17.36 S. Kinoshita JAPAN
Peripheral corneal ulcer

17.45 D. Tan SINGAPORE
CMV endotheliitis vs allograft rejection

17.54 J. Güell SPAIN
Small diameter DMEK in the presence of broad PAS

18.03 S. Al Swailem SAUDI ARABIA
Malignancy masquerading as limbal stem cell deficiency

18.12 F. Price USA
When DSAEK is better than DMEK

18.21 Discussion

18.30 End of Session

Opening Ceremony

Friday 9 September

18.30 – 19.00

Outside Hall H1
Friday 9 September

Hall H3

17.00 – 18.30

Instructional Course 2

Lamellar Complications

Moderators: J. Güell SPAIN
R. Nuijts THE NETHERLANDS

17.00 A. Villarrubia SPAIN
Uncommon complications, curious solutions

17.07 J. Güell SPAIN
DMEK nightmare

17.14 R. Nuijts THE NETHERLANDS
Lamellar crescent graft surgery for a corneal cyst

17.21 C. Cursiefen GERMANY
Corneal melting after Boston Kpro – what to do

17.28 F. Price USA
Management of blood in the anterior chamber during DMEK

17.35 B. Seitz GERMANY
Re-bubbling in excimer DALK?

17.42 J. Hjortdal DENMARK
Keratitis after SMILE surgery

17.49 L. Fontana ITALY
A big bubble too small

17.56 Discussion

18.30 End of Session

Saturday 10 September

Hall H1

08.00 – 09.00

Free Paper Session 4

Keratoconus and Collagen Cross-Linking

Moderators: F. Malecaze FRANCE
W. Wonneberger SWEDEN

08.00 M. Elalfy, H. Hamami, S. Hamada UK
Patient reported outcome measures (PROMS) in corneal collagen crosslinking – an innovative tool and its correlation to objective measures

08.08 S. Sahebjada, E. Chan, S. Vogrin, V. Sundararajan, M. Daniell, P. Baird AUSTRALIA
Economic impact of keratoconus using a health expenditure questionnaire – a patient’s perspective

08.16 A. Roufas, J. You, L. Wen, C. Hodge, G. Sutton, M. Madigan UK
Expression of HGF and cMet proteins in human keratoconus corneas

08.24 V. Diakonis, N. Likht, N. Yesilirmak, D. Delgado, S. Yoo, N. Zeibarth USA
Corneal elasticity after oxygen enriched high intensity corneal crosslinking assessed using atomic force microscopy

08.32 M. Cassagne, K. Peirne, S. Galiacy, P. Fournié, F. Malecaze FRANCE
Customized topography guided corneal crosslinking for keratoconus – clinical results

08.40 J. Court, M. Muhtaseb UK
Treatment of advanced keratoconus with INTACS SK intrastromal corneal ring segments – five year outcomes

08.48 K. Knutsson ITALY
Corneal collagen crosslinking for progressive keratoconus in paediatric patients

09.00 End of Session
Saturday 10 September

Hall H2
08.00 – 09.00
Free Paper Session 5

Corneal Transplantation
Moderators:  A. Denoyer FRANCE
            F. Kruse GERMANY

08.00  M. Saldanha, M. Alobthani, M. Showail, A. Borovik, Z. Ashkenazy, D. Rootman CANADA
       Descemet membrane endothelial keratoplasty – first two hundred and fifty eyes – single centre experience

08.10  I. Mallias GREECE
       Ocular surface reconstruction with living related keratolimbal allograft transplantation in patients with bilateral total limbal stem cell deficiency after severe chemical burn

08.20  V. Borderie, P. Loriaut, N. Bouheraoua, L. Laroche, J. Nordmann FRANCE
       Incidence of intraocular pressure elevation and glaucoma following lamellar versus full thickness penetrating keratoplasty

08.30  N. Kato, I. Oyakawa, T. Hayashi JAPAN
       Descemet’s membrane endothelial keratoplasty in Asian eyes

08.40  A. Duncombe, P. Rossi, D. Toubeau, J. Gueudry, M. Muraine FRANCE
       Prospective study comparing the inverted ultrathin descemet’s stripping endothelial keratoplasty (DSEK) to the descemet’s stripping automated endothelial keratoplasty (DSAEK) in fuchs dystrophy

08.50  M. Marques, I. Lains, M. Oliveira, A. Martins Rosa, E. Costa, M. Quadrado, J. Neto Murta PORTUGAL
       Functional evaluation of ultrathin descemet stripping endothelial keratoplasty grafts acquired with two different techniques

09.00  End of Session

Room B4
08.00 – 09.00
Free Paper Session 6

Ocular Surface
Moderators:  M. Claesson SWEDEN
            B. Cochener FRANCE

08.00  C. Karp, M. Yim, A. Galor, A. Nanji, M. Joag, W. Feuer USA
       Ability of novice clinicians to use high resolution optical coherence tomography to assess lesions of the ocular surface

08.10  G. Garhöfer, P. Wozniak, D. Schmidl, A. Bata, K. Witkowska, V. Aranha dos Santos, R. Werkmeister AUSTRIA
       Influence of topically applied lubricant eye gels on tear film thickness as measured with ultra high resolution OCT

08.20  V. Romano, B. Steger, M. Brunner, S. Kaye UK
       Functional grading of inflammatory activity in chronic allergic keratoconjunctivitis – pilot study

08.30  M. Haagdorens, M. Islam, V. Cepla, G. Garbenciute, M. Griffith, N. Zakaria, M. Tassignon BELGIUM
       Regenerating the anterior cornea using collagen scaffolds and corneal epithelial stem cells

08.40  P. Rama, S. Matuska, D. Ardigo, D. Santoro, F. Cattaneo, M. De Luca, G. Pellegrini ITALY
       Long term clinical results from patients affected by limbal stem cell deficiency (LSCD) due to ocular burns treated with ex vivo expanded autologous human corneal epithelial cells containing stem cells (Holoclar®)

08.50  A. Boto de los Bueis, A. del Hierro Zarzuelo, J. Benitez del Castillo, D. Diaz Valle, R. Mendez Fernandez, M. Gabarron Hermosilla, L. Rivas Jara SPAIN
       Autologous adiposederived stem cells for ocular surface reconstruction in patients with bilateral limbal stem cell deficiency

09.00  End of Session
Saturday 10 September

Hall H1
09.00 – 10.30
Focus Session 5

Ocular Injuries
Moderators: B. Frueh SWITZERLAND K. Klemp DENMARK

09.00 P. Fagerholm SWEDEN
Management of acute corneal burns

09.12 J. Güell SPAIN
Traumatic epithelial downgrowth – prevention and repair

09.24 C. Eggink THE NETHERLANDS
The challenges of traumatic cataracts

09.36 B. Malyugin RUSSIA
Surgical options for traumatic partial and total aniridia

09.48 C. Liu UK
Keratoprosthesis after severe ocular trauma

10.00 M. La Cour DENMARK
Intraocular foreign bodies

10.12 Discussion

10.30 End of Session

Hall H2
09.00 – 10.30
Focus Session 6

Immunology in Corneal Transplantation
Moderators: J. Armitage UK J. Hjortdal DENMARK

09.00 KEYNOTE LECTURE
M. Griffin IRELAND
What has been learned from immunological profiling in kidney transplantation?

09.30 U. Pleyer GERMANY
The role of immunomodulatory stromal cell therapy in prevention of corneal graft rejection

09.45 D. Tole UK
Immunosuppression in high-risk keratoplasty

10.00 D. Bohringer GERMANY
The value of HLA-matching in low-risk keratoplasty

10.15 J. Armitage UK
Conclusions of high-risk HLA matching study-CTFS II

10.30 End of Session
Saturday 10 September

Hall H1
11.00 – 13.00
Main Symposium 3
EuCornea/ESCRS Symposium
Modern Corneal Transplantation
Moderators: F. Malecaze FRANCE
R. Nuijts THE NETHERLANDS

11.00 P. Fournié FRANCE
PK – still an option in selected cases

11.15 V. Borderie FRANCE
DALK – when and how

11.30 Discussion

11.40 S. Hannush USA
Endothelial keratoplasty – why I prefer DSAEK

11.55 F. Kruse GERMANY
Endothelial keratoplasty – why I prefer DMEK

12.10 Discussion

12.20 F. Larkin UK
Complications of corneal transplantation – early recognition and early treatment

12.35 J. Güell SPAIN
When is a re-graft indicated?

12.50 Discussion

13.00 End of session

Hall H2
11.00 – 12.30
Focus Session 7
Dry Eye Disease
Moderators: D. Epstein SWITZERLAND
S. Heegaard DENMARK

11.00 J. Merayo SPAIN
New diagnostic approaches

11.15 G. Geerling GERMANY
The role of inflammation in dry eye disease

11.30 B. del Castillo SPAIN
What is meibomian gland dysfunction?

11.45 S. Raeder NORWAY
Current treatment of dry eye disease

12.00 S. Heegaard DENMARK
Diagnosis of primary and secondary Sjögren’s disease

12.15 H. Jeppesen DENMARK
Graft vs host disease and dry eye

12.30 End of Session
Saturday 10 September

Hall H1
14.00 – 15.30
Focus Session 8

Current Corneal Controversies

Moderators:  B. Cochener FRANCE
            B. Samolov SWEDEN

14.00  G. Kymionis GREECE
       Excimer on Keratoconus

14.15  R. Ambrosio BRAZIL
       Refinement in intrastromal ring segments

14.30  M. Muraine FRANCE
       DSAEK or DMEK

14.45  C. Cursiefen GERMANY
       Management of corneal new vessels

15.00  B. del Castillo SPAIN
       Management strategies for trophic ulcers

15.15  Discussion

15.30  End of Session

Hall H2
14.00 – 15.30
Instructional Course 3

DMEK: How I do it

Moderators:  J. Güell SPAIN
            F. Kruse GERMANY

14.00  F. Kruse GERMANY
       Host preparation – anatomical consideration, sizing, significance of splitting

14.15  M. Greiner USA
       Using precut grafts

14.30  F. Price USA
       How to unfold the graft

14.45  M. Busin ITALY
       DMEK 2.0 – my way of graft delivery

15.00  J. Güell SPAIN
       DMEK for failed PK

15.15  T. Tourtas GERMANY
       Deep chamber, deep trouble

15.30  End of Session
Saturday 10 September

Hall H1

16.00 – 17.30
Main Symposium 4

**Corneal Complications of Refractive Surgery**

**Moderators:** J. Güell **SPAIN**
A. Ivansen **DENMARK**

16.00  **A. Slomovic** **CANADA**
Steroid induced lamellar keratitis

16.12  **T. Seiler** **SWITZERLAND**
Secondary ectasia update (LASIK, surface, SMILE)

16.24  **D. Stulting** **USA**
Lamellar surgery – early and late DLK

16.36  **X. Zhou** **CHINA**
Microdistortions after keratorefractive surgery – a complication or just a consequence?

16.48  **M. Labetoulle** **FRANCE**
Immediate and late postoperative infectious keratitis

17.00  **G. Kymionis** **GREECE**
Surface ablation – CXL – what to do if haze becomes a fog

17.12  Discussion

17.30  End of Session

Hall H2

16.00 – 17.30
Instructional Course 4

**Corneal Suturing**

**Moderators:** H. Dua **UK**
D. G. Said **UK**

**Presenters:** R. Jayaswal **UK**
D. G. Said **UK**

This is a basic to intermediate level course that will cover all aspects of corneal suturing in the context of corneal lacerations, corneal grafts and other corneal procedures. Suture materials, choice of needles, suture placement, tying and burying knots and suture related complications and their management. The above will be covered under the following headings:

**Course Focus:**

- Suture materials – threads and needles
- Suturing corneal lacerations
- Suturing in penetrating keratoplasty
- Suturing in deep anterior lamellar keratoplasty
- Miscellaneous – Suturing of phaco burns; compression sutures, cataract and endothelial keratoplasty incisions
Shortlisted Posters

Friday 9 September
11.00 – 12.00
Presented Poster Session
Focus Digital Session 1
Poster Village: Pod 2

11.00 M. Labetoulle FRANCE
In vitro activity of Cacicol® on herpes simplex
virus type 1 - a new promising adjunct therapy of
herpetic corneal infections

11.10 L. Jouve FRANCE
Iontophoresis corneal collagen crosslinking for
keratoconus- efficacy, anterior segment optical
coherecne tomography and confocal microscopy

11.20 F. Cattaneo ITALY
HOLOSIGHT – a long-term observational study
of safety following ‘stem cell-based’ Holoclar®
implants for restoration of corneal epithelium in
patients with limbal stem cell deficiency due to
ocular burns

11.30 M. Matthaei GERMANY
Extracellular matrix-related gene expression
increases with objective fuchs endothelial corneal
dystrophy severity

11.40 A. Fust HUNGARY
A study on specificity of in vivo confocal cornea
microscopy in Acanthamoeba keratitis

11.50 R. Calvo Andres SPAIN
Our first experience with simple limbal epithelial
transplantation (SLET). Case report

12.00 End of session

Friday 9 September
14.00 – 15.30
Presented Poster Session
Focus Digital Session 2
Poster Village: Pod 2

14.00 A. Gokul NEW ZEALAND
The ARK study part I - epidemiology,
demographics and basic clinical characteristics of
Keratoconus in New Zealand – preliminary results

14.10 S.J. Küchler SWITZERLAND
Keratoconus progression after corneal cross-linking
in eyes with preoperative KMax≥58.0D

14.20 Y. Monden JAPAN
Pterygium surgery using mitomycin C, amniotic
membrane, cryopreserved limbal allograft, and
conjunctival autograft for recurrent pterygium with
severe symblepharon

14.30 K. Sereda UKRAINE
Corneal inflammation and proliferative activity
of the anterior epithelium cells on the bacterial
keratitis model with amniotic membrane
transplantation using different types of its fixation

14.40 C. Temstet FRANCE
Evaluation of predescemetic membrane sutures
for treatment of acute corneal hydrops and the
interest of peroperative OCT

14.50 J. Alio SPAIN
Neural network to guide keratoconus treatment
with ICRS

15.00 A. Vega-Estrada SPAIN
Corneal posterior surface characterization in
normal and keratoconus patients according to the
visual limitation degree

15.10 V. Huerva SPAIN
Treatment of ocular surface squamous neoplasia
(OSSN) with topical interferon (IFN) alfa-2b

15.20 Discussion
15.30 End of session

Join the presenters of this year’s shortlisted posters at the
Poster Village, Pod 2, to discuss their posters
Poster Presentations

Basic Science

J. Costa, F. Neves, L. Figueiredo, C. Arede PORTUGAL
Comparison of central corneal thickness between OCT, scanning slit topography and specular microscopy in a myopic population

Three cases of polychromatic crystalline dystrophy

M. Khubetsova, S. Borzenok, I. Saburina, Y. Komakh, K. Tonaeva RUSSIA
Our technology of construction 3D spheroids of limbal MMSC with induced neuroprotective properties

M. Matthaei, C. Leitl, R. Scholz, B. Bachmann, T. Langmann, C. Cursiefen, L. Heindl GERMANY
Extracellular matrixrelated gene expression increases with objective fuchs endothelial corneal dystrophy severity

A. Rodriguez, J. Alio SPAIN
An experimental study of new innovative pigments for keratopigmentation

S. Saha, J. Sengupta, A Khetan, D. Chatterjee INDIA
Polymerase chain reaction guided diagnosis of ocular infection

J. Sengupta, S. Saha, A Khetan, D. Chatterjee, D. Banerjee INDIA
Gene expression of fungal biofilms associated with infective keratitis

K. Sereda, G. Drozhzhina, T. Gaidamaka, V. Vit UKRAINE
Corneal inflammation and proliferative activity of the anterior epithelium cells on the bacterial keratitis model with amniotic membrane transplantation using different types of its fixation

K. Spiess, A. Boto de los Bueis, A. Arbizu Duralde, A. Del Hierro Zarzuelo SPAIN
Conjunctival lymphomas an 18 year review in a tertiary care hospital

L. Takacs, G. Losonczy, Z. Bagoly, A. Berta, G. Vereb HUNGARY
Presence of fXIIIa in vascularized human corneas

Corneal Transplantation

N. Alejandre-Alba, M. Ariato, B. Garcia-Sandoval, I. Jimenez-Alfaro SPAIN
Step by step description of real time intraoperative OCT findings in DALK surgery for both manual and big bubble techniques

C. Ancona, M. Montaldo, C. Traverso, D. Venzano ITALY
Descemet membrane endothelial keratoplasty a different approach to graft preparation and descemetocthexis technique

M. Arino, N. Alejandre, I. Jimenez-Alfaro, B. Garcia SPAIN
Intraoperative OCT assisted DMEK surgery and DMEK roll preparation

J. Ashar INDIA
Comparison of outcomes of DSEK and DMEK – case series of single surgeon

Rebubbling techniques for graft detachment after descemet membrane endothelial keratoplasty

S. Belghmaidi, I. Ibtiassam, A. Houda, M. Abdeljalil MOROCCO
Corneal neovascularisation before corneal transplantation about one hundred and twelve cases

V. Bersudsky, S. Gendler ISRAEL
A technique for donor lenticule position adjustment during automated endothelial keratoplasty (AEK)

V. Borderie, M. Borderie, K. Grieve, K. Irsch, D. Ghobay, C. Georgeon, L. Laroche FRANCE
New parameters in assessment of human donor corneal stroma

J. Cabrerizo, C. Rodriguez Aierbe, J. Garrido-Fierro DENMARK
Electron microscopy assessment of descemet membrane interphase during DMEK graft preparation

A. Charonis GREECE
The meander keratoplasty device in keratoplasty

D. Choudhary INDIA
Outcomes of sutureless anterior lamellar keratoplasty (ALK) in anterior lamellar opacities

D. Choudhary INDIA
Reverse big bubble for ultra thin DSEK

J. Coelho, S. Monteiro, A. Abreu, I. Carneiro, M. Gomes, L. Oliveira PORTUGAL
Descemet stripping automated endothelial keratoplasty after penetrating keratoplasty endothelial failure

K. Colby, D. Borkar, P. Veldman USA
Differential response to descemct striping without endothelial replacement in fuchs endothelial dystrophy (FED)

R. Delgado, J. Diaz, Z. del Campo, A. Bruix, M. Mas SPAIN
Recurrent penetrating keratoplasty graft failure – rejection, herpetic reactivation or endophthalmitis?

D. Dias, I. Carneiro, L. Malheiro, M. Gomes, L. Oliveira PORTUGAL
Descemets membrane endothelial keratoplasty (DMEK) – our experience

Quality of vision after ultrathin descemet stripping automated endothelial keratoplasty (UTDSEK) and DSAEK. A randomised multicenter clinical trial
M. Dirisamer, N. Luft, T. Kreutzer, S. Priglinger, AUSTRIA
Advanced triple procedure – DMEK combined with anterior chamber IOL explantation and posterior iris claw IOL implantation as a single stage procedure

G. Drozhzhyna, T. Gaidamaka, O. Ivanovska, V. Ostatchevskiy, B. Kogan, V. Usov, UKRAINE
Results of therapeutic keratoplasty using pig corneal xenograft

M. Elalfy, D. Leung, S. Hamada, D. Lake, UK
Incidence and risk factors of ocular hypertension/glaucoma after descemet’s stripping automated endothelial keratoplasty (DSAFE)

T. Gaidamaka, G. Drozhzhyna, K. Sereda, L. Troichenko, O. Ivanova, UKRAINE
Surgical treatment by melting of the cornea in patients with toxic epidermal necrolysis

N. Gerber-Hollbach, J. Parker, L. Baydoun, V. Liarakos, L. Ham, I. Dapena, G. Melles, SWITZERLAND
Preliminary outcome of hemi descemete membrane endothelial keratoplasty for fuchs endothelial dystrophy

E. Groeneveld-van-Beek, J. Lie, K. Mangundap, A. Sajet, J. Van Der Wees, G. Melles, THE NETHERLANDS
Multiple grafts from one donor button – organisation, traceability and preparation methods

I. Guber, UK
Outcome of microkeratome assisted anterior lamellar therapeutic keratoplasty for disorders of the anterior cornea – a review of consecutive adult and juvenile cases

I. Guber, C. Bergin, F. Majo, UK
Outcomes of microkeratome assisted anterior lamellar therapeutic keratoplasty for disorders of the anterior cornea – a review of consecutive adult and juvenile cases

A. Hajjar Sese N. Jacobsen K. Holmegaard, SPAIN
Outcome of penetrating keratoplasty, PKP, in two patients with Hurler Scheie syndrome – a follow up study

H. Hasani, M. Jafarinasab, S. Feizi, R. Shamsoddinimotlagh, IRAN
Evaluation of post traumatic wound dehiscence in corneal transplantation

S. Helsen, S. Ni Dhubghaill, N. Zakaria, C. Koppen, BELGIUM
Eckardt keratoprosthesis for tectonic repair of a large corneal perforation

M. Hosny, EGYPT
Femtosecond assisted anterior lamellar keratoplasty for superficial herpetic scars

Y. Kalinnikov, I. Ioshin, A. Bezzabotnov, A. Grigoryan, S. Zadorozhnii, RUSSIA
Deep anterior lamellar keratoplasty and penetrating keratoplasty with simultaneous implantation of intrastromal rings for the prevention of postoperative astigmatism in patients with keratoconus

V. Liarakos, I. Dapena, L. Baydoun, M. Rodriguez-Calvode Mora, G. Melles, GREECE
Advanced descemete membrane endothelial keratoplasty (DMEK) for complex endothelial disorders

V. Liarakos, M. Arvanitis, A. Maniateas, GREECE
Descemete membrane endothelial keratoplasty (DMEK) in the presence of keratoconus

C. Liu, A. Vasquez Perez, UK
DMEK in phakic eyes

G. Lopez Valverde, P. Pizarro Thompson, E. Garcia Martin, J. Larrosa Poves, V. Polo Llorens, L. Pablo Julvez, SPAIN
Tacrolimus ointment as an alternative treatment for acute cornea rejection

V. Mas, N. Maycock, P. Campos, R. Jayaswal, UK
Descemete’s membrane endothelial keratoplasty (DMEK) – algorithm for the pneumodissection technique in DMEK donor tissue preparation

DSAEK in patients with iridocorneal endothelial (ICE) syndrome

Spontaneous intraoperative exit and loss of a DSAEK graft from the anterior chamber (AC) that was found and reinserted into the AC. Case report

S. Monteiro, I. Casal, L. Malheiro, M. Gomes, L. Oliveira, PORTUGAL
Why DMEK?

Influence of air tamponade time on graft adherence after descemete membrane endothelial keratoplasty

M. Muraine, Z. He, D. Toubeau, G. Thuret, P. Gain, J. Gueudry, FRANCE
Validation of precut DMEK grafts using Muraine technique

L. Papaioannou, V. Savant, UK
Evolution of DMEK technique – our experience

S. Patel, K. Wacker, US
Relationship between corneal backscatter and endothelial pump function in fuchs dystrophy

S. Perestrello, J. Pinheiro Costa, R. Moreira, A. Magalhaes, J. Breda, F. Falcao-Reis, PORTUGAL
Maroteauxlamy syndrome – a light at the end of the tunnel

F. Price, M. Price, US
Adherence and endothelial cell loss with a DMEK endothelium inward trifold insertion method vs. a scrolled endothelial outward method
**Poster Presentations**

Clinical outcome of rebubbling for graft detachment after descemet membrane endothelial keratoplasty (DMEK)

**A. Raghavan, S. Maskibail B. R** INDIA
Do outcomes and complications justify the technical difficulties of DALK?

**J. Reddy, S. Bhalerao, A. Mohamed, P. Vaddavalli** INDIA
Long term outcomes of descemet's stripping endothelial keratoplasty after rebubbling for graft detachment

**T. Salvador, I. Sassot, M. Barbany** SPAIN
Tearing of descemet's membrane (DM) when obtaining grafts for descemet membrane endothelial keratoplasty (DMEK) using Muraine's technique

**J. Sandoval-Codoni, E. Jimenez, R. Sanjuan, J. Gonzalez de Gor** SPAIN
Combined immunomodulatory agents in the management of refractory corneal graft rejection in high risk keratoplasty. Case report

**J. Sengupta, A. Khetan, D. Chatterjee** INDIA
Long term results of DALK - a five year follow up

**B. Steger, E. Curnow, R. Cheeseman, V. Romano, A. Kaye, M. Jones, S. Kaye** AUSTRIA
Sequential bilateral corneal transplantation and graft survival

**C. Stoeger, K. Tran, K. Odell, J. Galloway, P. Dye, M. Terry** US
Validation of an eye bank slitlamp examination process for DMEK preparations - a three year internal review

**A. Vasquez Perez, C. Lui** UK
Corneal venting incisions in DMEK to assist the unfolding of the donor graft

**A. Vasquez Perez, A. Vasquez Perez, S. Naqib** UK
Customised DSAEK with Baerveldt implant tube repositioning

**A. Vasquez Perez, M. Nanavaty** UK
Simple limbal epithelial transplantation (SLET) followed by keratoplasty as treatment for limbal stem cell deficiency secondary to mitomycin C toxicity

**P. Vassileva, Y. Kirilova, T. Hergeldzhiева-Fileva** BULGARIA
AMT and PK in the management of nontraumatic corneal perforation

**N. Yesilirmak, E. Singar Ozdemir, D. Dursun Altniors** TURKEY
Effect of dexamethasone intravitreal implant in a corneal graft rejection

**A. Zaki** EGYPT
Deep anterior lamellar keratoplasty – triple procedure – a useful clinical application of the predescemet's layer (Dua's layer)

**Imaging**

**O. Balta** TURKEY
Relationship of corneal endothelial morphology and central thickness to duration of diabetes

**A. Fust, J. Tath, G. Simon, L. Imre, Z. Nagy** HUNGARY
A study on specificity of in vivo confocal cornea microscopy in acanthamoeba keratitis

**I. Henares Fernández, N. Saenz Madrazo** SPAIN
Why this anterior persistent postsurgical uveitis? ASOCT can help us

**U. Karaalp, M. Sahin** TURKEY
Anterior segment parameters in patients with retinitis pigmentosa

**T. Maio, J. Serino, R. Resende, R. Goncalves, P. Coelho, J. Moreira** PORTUGAL
Unilateral corneal edema case report

**M. Mas Castells** SPAIN
Peripheral corneal perforation caused by soft contact lenses abuse

**M. Mas Castells** SPAIN
Intraoperative use of OCT during intrastromal corneal ring segment manual implantation

**S. Misra, H. Kersten, R. Roxburgh, H. Danesh-Meyer, C. McGhee** NEW ZEALAND
Ocular surface in Parkinson’s disease

**L. Modis, E. Szalai, B. Kettesey, A. Kemeny-Beke** HUNGARY
Specular microscopic evaluation of the corneal endothelium in diabetic patients

**K. Pawlowicz, A. Sharma, G. Saleh, G. Nithyanandarajah, K. Emeriewen, M. Arjunan, S. Balal** UK
The role of fluorescein filter imaging to aid the diagnosis of corneal dendritic lesions

**J. Reddy, A. Krishnan T. P K** INDIA
Error in the prediction of central corneal thickness in patients who had femto assisted anterior lamellar keratoplasty for anterior corneal pathologies – a predictive model

**L. Salermo, A. Plaza Puche, F. Versaci, E. de la Cruz, J. Alío** SPAIN
Aberrometry reliability obtained by a pyramid wavefront sensorbased aberrometer

**S. Siebelmann, J. Horstmann, B. Bachmann, P. Steven, M. Matthaei, M. Herrmann, C. Cursiefen** GERMANY
Intraoperative OCT in corneal crosslinking and excimer PTK

**H. Vellara, R. Hart, A. Gokul, C. McGhee, D. Patel** NEW ZEALAND
The noncontact scheimpflug based tonometer as a diagnostic aid in thyroid eye disease
Infections and Inflammation

U. Agraval, D. Lyall, A. Gilmore, C. Goodyear, I. McInnes, K. Ramaesh UK
Therapy induced rise in endotoxins and inflammatory cytokines response in bacterial corneal ulcers

G. Cavallini, P. Ducange, V. Volante, M. Bigliardi, M. De Maria, E. Fornasari, G. Delvecchio ITALY
The effect of bevacizumab intrastromal injection for corneal neovascularization

W. Chaidaroon, S. Supalaset, N. Tananuvat, N. Vanittanakom THAILAND
Corneal phaeohyphomycosis caused by bipolaris hawaiensis

M. del Buey, O. Esteban, I. Perez, C. Almenara, M. Martinez, A. Idoate, J. Cristaabal SPAIN
Regression of corneal neovascularization associated with corneal ulcers after treatment with regenerating agents (cacicol®)

R. Delgado, Z. del Campo, E. Mingorance, M. Mas SPAIN
Subconjunctival ologen collagen matrix implant soaked with antibiotic to control infectious scleritis case report

C. Feinbaum, A. Barisic ISRAEL
Temporary relief of pain and improved vision in patient with bulbous keratopathy when treated with a specially designed soft contact lens, the Hyper CL™ and hyperosmotic drops.
A palliative relief of corneal oedema – a case report

A. Gupta, A. Ghosh, A. Thakur, J. Ram, A. Chakrabarti INDIA
Newly emerging pathogens in keratomyocosis, a study from India

M. Labetoulle, A. Rousseau, M. Breckler, L. Molet, D. Boutolleau, S. Burrel, C. Deback FRANCE
In vitro activity of Cacicol® on herpes simplex virus type 1 a new promising adjunct therapy of herpetic corneal infections

J. Medeiros Pinto, D. Cordeiro Sousa, A. Miguel Quintas, P. Guerra, J. Franco, W. Rodrigues PORTUGAL
Indications and outcomes of cyclosporine A 1% eye drops in paediatric age

Rapid detection of fungal keratitis with DNA stabilising FTA filter paper

J. Obis Alfaro, A. Mateo Orobia, P. Pizarro Thompson, M. Satue Palacian, M. Idoipe Corta SPAIN
New regenerating agents (RGTA) – new indications in persistent corneal thinning caused by fungal keratitis

M. Passilongo, E. Pedrotti, F. Bosello, E. Bruni, P. Talli, A. Fasolo, G. Marchini ITALY
Accelerated collagen crosslinking for the treatment of fusarium keratitis nonresponsive to antimicrobial therapy

M. Perez Gancedo, L. Paya Serratosa, V. Hernandez Ortega, I. Reyes Munoz, M. Platero Vazquez, P. Beneyto Martin, M. Cabezas Leon SPAIN
Peripheral ulcerative keratitis (PUK) superinfected by an uncommon oculo microorganism cinetobacter iwoffii

R. Quintana Conte, A. Camos, A. Serrano SPAIN
Treatment of infectious epithelial herpetic keratitis resistant to acyclovir

R. Rajaraman, M. Pathak, V. Vaidee INDIA
An analysis of outcome in culture positive versus culture negative microbial keratitis

R. Rajaraman, B. Muthukumar, M. Pathak, V. Vaidee INDIA
Role of lens as a barrier in preventing posterior segment infection post therapeutic keratoplasty – a prospective study

A. Rodriguez, S. Gisbert, J. Alio SPAIN
In vitro demodex test using Naviblef® intensive care

S. Saha, J. Sengupta, A. Khetan, D. Chatterjee INDIA
A seven year comparative report of in vitro antimicrobial susceptibility of pathogenic ocular bacterial isolates and ocular commensals

S. Saha, J. Sengupta, A. Khetan, D. Chatterjee, D. Banerjee INDIA
Antifungal susceptibility of planktonic, biofilm and biofilm-derived planktonic modes of keratitis associated fungal pathogens

S. Saha, J. Sengupta, A. Khetan, D. Chatterjee INDIA
Polymerase chain reaction (PCR) guided diagnosis of ocular infection

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General Information

Venue
Bella Center Copenhagen, Denmark

Host
EuCornea, Temple House, Temple Road, Blackrock, Co. Dublin, Ireland
Tel: +353 1 288 3674
Fax: +353 1 288 3675
Email: eucornea@eucornea.org

Opening Hours

Registration
Wednesday 7 September  16.00 – 18.00
Thursday 8 September  07.00 – 18.00
Friday 9 September  07.00 – 18.30
Saturday 10 September  07.00 – 18.00

Speaker Check-in

Entrance Hall
Thursday 8 September  07.00 – 18.00
Friday 9 September  07.00 – 18.30
Saturday 10 September  07.00 – 18.00
All speakers must check or upload their presentation 3 hours prior to their session

Exhibition Area

Outside Lecture Halls H1, H2, H3
Friday 9 September  09.00 – 18.00
Saturday 10 September  09.00 – 18.00

ATM
Bella Sky Hotel, Tower 1, Level 0

Boarding Pass Printing Stations & Internet Access
Hall B

Cafes
Level 0 & Level 1

Cloakroom
At Main Entrance of Congress Centre

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Each delegate should contact his/her national CME body directly in order to claim their credits for the Congress.

Currency
The official currency of the Congress is Euro

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Halls B, C, E & Foyer Auditorium A

ePosters
Poster Village, Hall B, Level 0

First Aid
Registration Area, Level 0

Insurance
Delegates are advised to take out travel insurance to cover medical expenses, accidents, loss etc. No responsibility will be accepted by the Congress Organisers.

Kuoni Desk
Hall E

Multi-Faith Prayer Room
Hall B

Official Language
The official language of the Congress is English

Welcome Reception
Friday 9 September 18.30 – 19.00
Outside Lecture Hall H1

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Friday 9 September

Lunchtime Symposia
13.00 – 14.00
Hall H2

Keeping the Ocular Surface Healthy

Moderators:  K. Boboridis GREECE
F. Larkin UK

Sponsored by: Théa

Friday 9 September

Lunchtime Symposia
13.00 – 14.00
Hall H3

Perceptions of Care: Working Together to Improve DED Management

Moderator:  F. Malecaze FRANCE

Sponsored by: Santen

Saturday 10 September

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13.00 – 14.00
Hall H2

A New Paradigm in the Treatment of Limbal Stem Cell Deficiency due to Ocular Burns

Moderator:  P. Rama ITALY

Sponsored by: Chiesi

Saturday 10 September

Lunchtime Symposia
13.00 – 14.00
Room B12

Corneal Nerves – The Forgotten Factor in Health and Disease

Moderator:  H. Dua UK

Sponsored by: Dompé
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Friday 9 September
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