

SUMMER SCHOOL 2021

IT-DED³ Training Programme
www.itded3.eu

June 15-19 | on ZOOM

IT-DED³ receives funding from the European Union's Horizon 2020
Research and Innovation Program under grant agreement No 765608



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SCHEDULE (CET zone)

DAY 1 - TUESDAY, JUNE 15

(09.00 - 10.00) DED animal models: translational approach

Prof. Dr. Juana Gallar, Instituto de Neurociencias UMH-CSIC (Spain)

(10.00 - 11.00) Peripheral and central sensory abnormalities in DED animal models

Dr. Annabelle Reaux-Le Goazigo, Vision Institute (France)

(11.15 - 12.15) Omics-Based Biomarker Investigation for Dry Eye Disease

Prof. Dr. Françoise Brignole-Baudouin, Vision Institute (France)

(12.15 - 13.15) Multimodal Imaging System for Structural Dry Eye Disease Analysis

Dr. Hong Liang, Vision Institute (France)

(16.00 - 18.00) "MEET THE PATIENT"

Session with members of The Dry Eye Foundation (United States)

DAY 2 - WEDNESDAY, JUNE 16

(09.00 - 12.00) Business Development for Researchers

Vincent Van Beirendonck, Quintessence (Belgium)

(13.00 - 15.00) Technology readiness levels in Drug Development

Dr. Jurgen Joossens, University of Antwerp (Belgium)

DAY 3 - THURSDAY, JUNE 17

(10.30 - 13.30) What to do with your PhD? Career planning using networking strategies and LinkedIn profile

Dr. Filipa P. Moraes, Ciencia Clara (Portugal)

DAY 4 - FRIDAY, JUNE 18

EuDEC 2021, European Dry Eye Society Congress

Virtual Event

DAY 5 - SATURDAY, JUNE 19

EuDEC 2021, European Dry Eye Society Congress

Virtual Event

(15.45) IT-DED³, A European consortium for innovation

Chaired by Prof. Dr. Philipp Steven, University Hospital Cologne (Germany)

(Details on page 7)

TRAINERS & SPEAKERS



Juana Gallar is Professor of Physiology at the Miguel Hernández University of Elche (Spain) since 2002 and leads the Ocular Neurobiology Group of the Institute of Neurosciences UMH-CSIC since 2008. Prof. Gallar has a degree in Medicine and Surgery, a PhD in Neurosciences by the University of Alicante and completed her training at the Eye Research Institute of the Retina Foundation (Harvard Medical School, Boston, USA) and the Shiley Eye Center of UCSD (La Jolla, USA). Her research focuses on the neurophysiological bases of ocular pain and the physiology and pathophysiology of the somatosensory nerves of the ocular surface. She is author of numerous neurophysiological data on the functional types of corneal sensory receptors and their role in the genesis of sensations originating in the eye and in the regulation of various ocular functions (basal and reflex lacrimation, blinking, maintenance of ocular blood flow and IOP, tissue repair, etc.). She also studies the morpho-functional changes of trigeminal neurons associated with aging and the regeneration mechanisms of corneal nerves after corneal transplantation. Prof. Gallar is member of several scientific societies in the field of neurosciences, the study of pain and ophthalmology, for which she has organized several international congresses and symposia. She is author of more than 60 indexed scientific articles and co-inventor of 12 registered patents.

Annabelle Réaux-Le Goazigo, PhD, researcher, CR1 at Institut National de la Santé et de la Recherche Médicale (INSERM) has a recognized expertise in cellular and molecular biology and pain behaviours. She has an extensive knowledge of the rodent neuroanatomy, physiology, imaging and in the development of animal models. Her research projects are dedicated to the role of chemokines and their receptors in corneal pain by deciphering neuro-immune interactions that occur in the cornea, trigeminal ganglion and brain structures. The interactions between opioid receptors and chemokine receptors in pain processing are also evaluated. She participates in translational research program between the Vision Institute and the clinical investigation center (CIC 503, quinze-Vingts Hospital) to find new pain-related biomarkers and treatments for ocular pain relief.



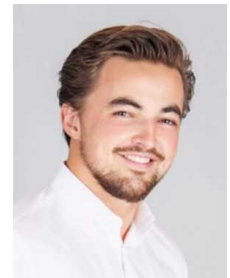
Françoise Brignole-Baudouin MD, PHD, HDR, is associate professor of toxicology at the "Faculté de Pharmacie de Paris, Université de Paris3, France, researcher at the "Institut de la vision", and also the head of the medical biological department at the Quinze-Vingts National Ophthalmology Hospital in Paris, entirely dedicated to ocular diseases. She is involved in toxicological evaluation of xenobiotics which can cause dry eye disease (DED): drug active compounds, excipients/preservatives, in particular benzalkonium chloride, a quaternary ammonium compound, as well as formaldehyde gas, an environmental pollutant. She has developed tools to assess ocular surface inflammation, in particular in DED, the main one of which is a "flowcytometric assay for HLA-DR antigen quantification in conjunctival inprints". This test was used in several phase II and III clinical studies and demonstrated that HLA-DR, correlated with the severity and the follow-up of DED, is considered today as the best biomarker to assess ocular surface inflammation. She is currently using omics technologies to explore new possibilities for the discovery of biomarkers for DED. She is author of more than 150 scientific publications.

TRAINERS & SPEAKERS



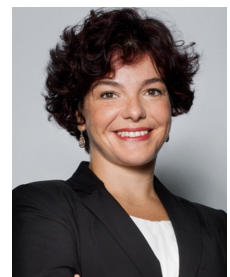
Hong Liang MD, PhD, is a French licensed ophthalmologist at the Quinze-Vingts National Ophthalmology Hospital in Paris, France. She is specialized in glaucoma, ocular surface diseases and pediatric rare diseases such as cystinosis. As referent ophthalmologist at the Clinical Investigation Center dedicated to Ocular Surface Diseases and Glaucoma, she has conducted several clinical trials as principal investigator by proposing new diagnostic tools and new treatments. She has over 70 publications, and over 25 as first or last author. She has served on the advisory board for 'Advance in Therapy' and academic editorial board for 'Journal of Ophthalmology'.

Vincent Van Bereindonck is Business Manager at the Belgian management consultancy firm Quintessence, whose customers are mainly large Enterprises and Public Services as well as institutions of Higher Education. At Quintessence, Vincent leads the commercial team and Business Development processes. As a University of Antwerp alumnus of the Faculty of Economics, with additional degrees in Business from Tilburg University and Stellenbosch University, his areas of expertise lie in the scientific and data driven approach behind connecting with people on a commercial basis. He is experienced in working with organizations in Technology, Research and Public sectors.



Jurgen Joossens is head of the Valorisation Office at the University of Antwerp, whose core mission is to support researchers in the protection and exploitation of scientific knowledge as and manage the intellectual property of the university. He obtained a pharmaceutical degree and a PhD in medicinal chemistry (University of Antwerp). After being a scientist by Janssen Pharmaceutica, Jurgen Joossens undertook the appointment of IOF fellow at the Antwerp Drug Discovery Network for more than 10 years. He is co-author of more than 60 scientific publications and co-inventor of 9 patent applications.

Filipa Moraes has been a consultant in STEM Education, Mentoring and Career Development, since 2015. She received her PhD in Development Biology from Universidade Nova de Lisboa in 2010. Subsequently, as a Post-Doc Researcher, studied signaling pathways in arteriogenesis at Yale University, USA. In 2014, held a Teaching Scholar Appointment at Yale University, as a qualified Scientific Teaching Instructor (Howard Hughes Medical Institute/Yale Teaching Fellows Program), Filipa has proven experience in teaching at Yale University (Undergraduate and Graduate level) in different areas such as Genes & Development, Evolution, Mentoring, Research Conduct, Scientific Teaching, Research Proposal, & Paper Writing. After working as the Advanced Training Officer at Instituto de Medicina Molecular (iMM), where she managed the advanced training programmes and provided mentoring and career development support to researchers, Filipa founded "Ciência Clara - Creative Solutions to Empower Scientists", implementing scientific writing programmes for Pharmaceutical Companies and has been launching Career Development Programmes & Workshops benefiting more than 700 scientists: <http://www.cienciaclara.pt/testimonials>.



THE DRY EYE FOUNDATION

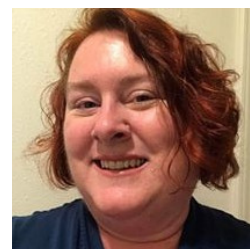


The Dry Eye Foundation is a nonprofit organization based in Poulsbo, Washington (US), whose mission is to improve quality of life for people suffering from dry eye disease. The foundation is working to document its community's needs and provide much-needed services, while also refining its vision to lay the groundwork for long-term change in how both this community and eye care professionals think about dry eye disease.

The Dry Eye Foundation was established in 2018 after a long history of advocacy, education and support for people suffering from dry eye disease under the name [Dry Eye Zone](#). Incorporating as a nonprofit was a natural next step in response to a rapidly growing community with escalating needs that aren't being met.

According to the most frequently quoted [epidemiological study](#), there are approximately 30 million people in the US suffering from dry eye, figures that are for "dry eye" in the broadest possible sense. Most of The Dry Eye Foundation's work is catering for the needs of a relatively small subset of the 30 million: people experiencing severe symptoms that are adversely affecting their quality of life. However, the Foundation also wants to have a role in prevention and improving outcomes for the ones who could at any time escalate to a more severe condition. This is done by seeking to educate those who can benefit much more from information on risk factors and prevention.

Rebecca Petris started [The Dry Eye Zone](#) in 2005. Prior to that, she worked for a decade or so in commercial jet leasing in London and San Francisco. In her younger days, worked as a teacher and translator in Thessaloniki, Greece. Rebecca's interests shifted to eyes and advocacy after experiencing unexpected and hard-to-treat eye problems after LASIK surgery in 2001. In October 2018, Rebecca decided to move on in favor of working full time in advocacy and research. A new nonprofit foundation was born: [The Dry Eye Foundation](#), from which she is Founder and Executive Director.



Rebecca is passionate about education, patient advocacy, helping doctors and patients understand each other better, and raising the bar in dry eye care. She loves writing, data and databases.

EuDEC - EuDES Congress



The European Dry Eye Society brings together most European dry eye specialists and is the basis for structuring a task force on a European level, to continue expanding knowledge in the wide area of dry eye and promoting education, through congresses, webinars and newsletters. Sharing cutting-edge scientific knowledge and practical skills with other European experts will fill the gap between basic science, clinical practice and patient relieve.



The First Edition of The European Dry Eye Society Congress (EuDEC) will be held virtually from 18 to 19 June, 2021. It consists of a very attractive programme, which involves speakers from all over the world. Furthermore, the Industrial Partners supporting this brand new event will offer a dedicated programme.

All the details of EuDEC 2021 and the final programme: <https://www.dryeye-society.com/congress/congress>

IT-DED³, A EUROPEAN CONSORTIUM FOR INNOVATION Saturday, June 19 | 15.45 CET

Opening remarks

Prof. Dr. Philipp Steven, University Hospital Cologne (Germany)

Introduction to the IT-DED³ Consortium

Prof. Dr. Koen Augustyns, University of Antwerp (Belgium)

Dry eye drug development: from the lab to the up-scaling

Alba Ramos-Llorca, University of Antwerp (Belgium)

Use of natural compounds for treatment of DED and strategies for drug delivery

Luna Krstić, IOBA institute, University of Valladolid (Spain)

Biomarkers for diagnosis of DED

Adrián Guerrero Moreno, Vision Institute, Sorbonne Université (France)

AI in dry-eye diagnosis - academic and industrial collaboration

Md Asif Khan Setu, University Hospital of Cologne (Germany)

Translational applications of basic research - Advisory Board perspective

Prof. Dr. Michael E. Stern, ImmunEyez LLC, Orange County (United States)

Closing remarks

Prof. Dr. Philipp Steven, University Hospital Cologne (Germany)

ASSIGNMENTS

ASSIGNMENT 1 - Questions session "Meet the Patient"

In order to get prepared for the session with The Dry Eye Foundation ("Meet the Patient"), each ESR needs to propose 3 questions. Feedback will be provided few days before the session in order to avoid duplication.

Deadline: June 2

Send the questions to paz.yanez@uantwerpen.be

ASSIGNMENT 2 - Improve LinkedIn profile

Improve your LinkedIn profile. Instructions and details will be provided prior to and during the session "What to do with your PhD? Career planning using network strategies and LinkedIn profile", by Dr. Filipa Moraes, Ciência Clara - Creative Solutions to Empower Scientists"

Deadline: June 28

ASSIGNMENT 3 - Project proposal (group work)

By working in groups of 4 ESRs (involving different disciplines), each team will prepare an "idea" for a new research project proposal, by integrating concepts from their research projects and respond to the following aspects:

1. Title and problem to solve: half page maximum.
2. Sub-goals in the form of work-packages: only titles.
3. Assets available to meet the problem / unmet needs: 1 page maximum.
4. Current TRLs of each ESR project to assess the available assets and how far the project will go technically (towards which TRL).
5. Realistic timing to achieve the goals: Gantt Chart with milestones and brief text describing the go/no-go reflection points.
6. Need for funding. A simplified budget breakdown and total amount: 1 page.
7. Identification of partners and stakeholders to involve in the project and strategy to engage them: 1 page.
8. IP and Valorisation strategy: 1 page.

Details will be offered during a Q&A session after the lecture on on TRLs,

Deadline for submission: July 19

Deliver in a PDF document (based on Word or PPT) to paz.yanez@uantwerpen.be

ASSIGNMENT 4 - Article Reading

Please download the article [TFOS DEWS II Report Executive Summary - TFOS European Ambassador meeting: Unmet needs and future scientific and clinical solutions for ocular surface diseases](#). Proceed with a critical reading and prepare a summary text of up to 2 pages.

Deadline for submission: July 30

Deliver in a PDF document to paz.yanez@uantwerpen.be

PRACTICAL INFORMATION

Participation

The lectures and workshops scheduled for June 15-17 (Tuesday - Thursday) will be given on ZOOM. The participation in EuDEC 2021 on June 18-19 will also be virtually.

Registration to EuDEC

All ESRs need to register for EuDEC. Please find all the information in the link below:

<https://www.dryeye-society.com/congress/registration>

ECTS credits

(1) Participation to all the ZOOM sessions, (2) participation in EuDEC 2021 and (3) delivery of the four assignments will be awarded with 3 ECTS. Please note that these three requirements are necessary to obtain the credits.

ZOOM link

Join Zoom Meeting:

<https://zoom.us/j/99726502699?pwd=NmpPTkUxeTgvNGoxdk9JTTNsVDN2dz09>

Meeting ID: 997 2650 2699

Passcode: 551133

Recording

The lectures and workshops will not be recorded, except for the session "Meet the Patient" with the Dry Eye Foundation.

Contact

For any questions, please contact Paz Yanez-Murillo, Project Manager of IT-DED³ (paz.yanez@uantwerpen.be or mobile: +32 486 76 74 08).

Alternatively, you can also contact Prof. Dr. María J. González-García, Director of Training of IT-DED³ (mjgonzalez.ioba@gmail.com).

**We wish you a pleasant
Summer School 2021!**

