



# IT-DED<sup>3</sup>

## Integrated Training in Dry Eye Disease Drug Development

OCUTHER & IT-DED<sup>3</sup> Satellite Meeting (EVER2019)  
Nice, October 16, 2019

Maya Berg, scientific research manager  
Paz Yanez, project manager



## Supervisory board

- **UA:** K. Augustyns, P. Cos
- **SU:** Ch. Baudouin, F. Brignole-Baudouin, A. Réaux-Le-Goazigo
- **Uva:** M. Calonge, M. González, A. Enriquez-De-Salamanca, Y. Dielbod, S. Rodríguez
- **LIOS:** A. Jirgensons, K. Shubin
- **UEF:** A. Urtti, M. Ruponen
- **UHC:** Ph. Steven, U. Gehlsen
- **iBET:** M. Rosario-De-Brinze, N. Fernández

## External Advisory Board

- **M. Stern**, ImmunEyez
- **J.M. Stassen**, Amakem
- **V. Calder**, UCL
- **Ch. Menet**, Confo Therapeutics
- **C. Koppen**, UZA

## Dry Eye Disease (DED)

- Increasing health-care problem
- Affecting 5 to 35% of the world adult's population
- More common in an older population and women
- Higher prevalence expected in the younger population due to:
  - Frequent computer/tablet screen usage
  - Environmental factors
  - Wearing of contact lenses

7 beneficiaries (coordinator: UAntwerp)

9 partner organisations



**NOVALIQ**  
Transforming Ocular Therapeutics



**MERCA<sub>CH</sub>EM**

**HGBeyond**  
Hydrogels beyond expectations







# goals

**Multidisciplinary  
trained entrepreneurial  
researchers**

**Develop new  
therapies for  
patients  
suffering from  
DED**

**Accelerate new therapy and biomarker development  
in the field of DED**

## WP1 Drug Discovery

**Objective:** Potential lead compounds will be synthesized, isolated and evaluated *in vitro* and the most promising ones will be selected for the *in vivo* proof of concept study in **WP2**.

**Task 1.1:** synthesis & isolation of new lead compounds

**Task 1.2:** *in vitro* evaluation

ESRs



Alba ESR1



Camilla ESR2



Agnese ESR3



Nikos ESR4



Maha ESR5

WP leader:



Participants:



## WP2 Preclinical drug development

**Objective:** Compounds that have passed the selection criteria of **WP1** will be upscaled and further evaluated in formulation and pharmacokinetics (PK) studies and *in vivo* proof of concept studies.

**Task 2.1:** upscaling strategies

**Task 2.2:** formulation and PK studies

**Task 2.3:** *in vivo* proof of concept

ESRs:



Agnese ESR3



Nikos ESR4



Davide ESR5



Luna ESR6



Anusha ESR7



Bao ESR10

**WP leader:**



**Participants:**



UNIKLINIK  
KÖLN



Latvian  
Institute of  
Organic  
Synthesis



MERCACHEM

HGBeyond  
Hydrogels beyond expectations

NOVALIQ  
transforming Ocular Therapeutics



## WP3 Development of clinical diagnostic tools

**Objective:** Develop new optical and molecular biomarkers for pre-clinical and clinical evaluation in DED.

*Translation of basic research into patient applications ('bench-to-bedside' principle)*

**Task 3.1:** biomarker research and imaging strategies in animal models

**Task 3.2:** biomarker research and imaging strategies for patient stratification

ESRs:



Yiannis ESR8



Adrián ESR9



Asif ESR11

**WP leader:**



UNIKLINIK  
KÖLN



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YouTube (under construction)



- Responsibility of the ESRs
- Based on #ACTIONS

# #Projectoverview



IT-DED³ Project  
@IT\_DED3\_Project

Alba Ramos is a chemist from Barcelona with a master in Medicinal Chemistry. PhD student at @UAntwerpen, she is developing novel compounds as serine protease inhibitors for the treatment of #DryEyeDisease. Check it here: [bit.ly/ESR1\\_Project](http://bit.ly/ESR1_Project)  
#mscactions #research #H2020



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IT-DED³ Project

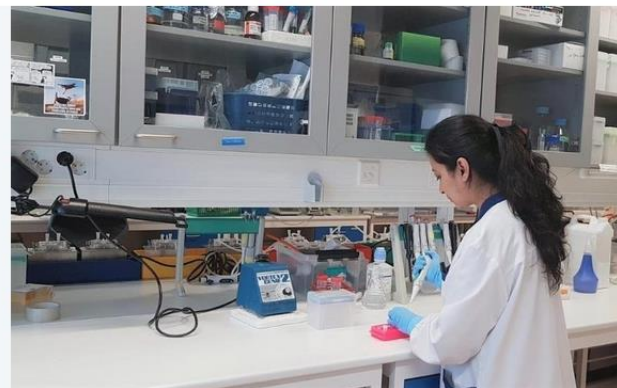
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LinkedIn

Anusha Balla is a pharmaceutical scientist from Nepal with a master's degree in Industrial Pharmacy. She is a PhD student at the [University of Eastern Finland](#). Her research is related to the evaluation of novel drug compounds and development of novel drug delivery systems for #DryEyeDisease to enhance penetration in ocular surface tissues.

Check an overview of her project in here: [http://bit.ly/ESR7\\_Project](http://bit.ly/ESR7_Project)  
#mscations #europeancomission #PhD #eyehealth #science #vision #visionscience #InvestEUresearch #drugdelivery #drugdevelopment #itded3 #dryeye



18 · 3 Comments



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IT-Dry Eye Disease Drug Development

Published by Alba Ramos Llorca (?)

27 June · Edit

Agnese Compagnone is a Doctor of Veterinary Medicine. She graduated in Italy and she is currently working in her PhD project in Pharmaceutical Sciences, at University of Antwerp. Her work deals with developing a new Dry Eye Disease animal model and testing anti-inflammatory and anti-oxidant activities of synthesised compounds. Check it here: [http://bit.ly/ESR3\\_Project](http://bit.ly/ESR3_Project)  
#dryeye #mariecurie #phd #phdlife #europeancomission #MSCA #MSCAactions #H2020 #itded3 #science #research #eye #dryeyedisease #vision #visionscience #pharmaceuticalscience #drugdevelopment

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# #Greetingsfrom



IT-DED<sup>3</sup> Project  
@IT\_DED3\_Project



#Greetingsfrom Valladolid! Our #ESR Camilla just started a 6 weeks secondment at @IobaUVA. She will conduct part of her #research in Spain together with Luna and Nikos.

#MSCAactions #H2020 #itded3 #dryeyedisease #drugdevelopment #InvestEUresearch #EUmobility



itded3  
Kuopio, Finland



itded3 #Greetingsfrom Kuopio!  
Our #ESR @lunakrstic just started a 3 months secondment at the University of Eastern Finland. She will be conducting part of her research in Finland together with @anushaballa. We wish her success and a lot of fun!  
#dryeye #mariecurie #phd #phdlife#europeancommission #MSCA #MSCAactions #H2020 #itded3 #science #research #eye#dryeyedisease #vision #visionscience#pharmaceuticalscience #drugdevelopment#medicinalchemistry #InvestEUresearch#eumobility

3w



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# #OneDayWith



# #TheDayOf



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90 followers

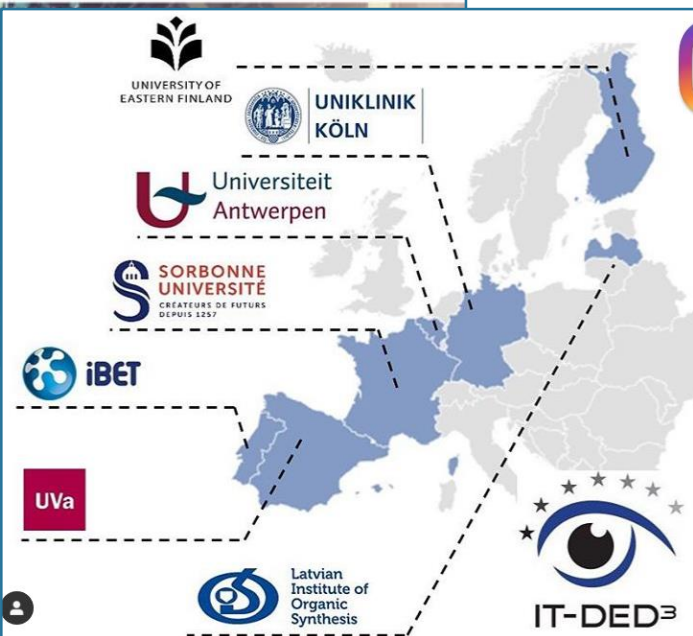
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LinkedIn

On the World Sight Day 2019, all our research team remains strongly committed and putting all its efforts for the development of new therapies for patients suffering from Dry Eye Diseases (DED). Visit our website [www.itded3.eu](http://www.itded3.eu) #sight #DryEyeDisease #research #InvestEUresearch #PhD #commitment #ophthalmology #eyecare #vision #eyes



www.itded3.eu  
**WORLD  
SIGHT DAY  
2019**



Instagram

itded3 Our ERS fellows celebrate the #EuropeDay by devoting hours of research to drug discovery for #DryEyeDisease. Always aware that this is only possible thanks to the funding from the EU H2020 MSCA-ITN programme.  
#research #europeancommission #science #InvestEUresearch #MSCActions #vision #VisionScience #eyecare #PhD #EuropeDay

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## Thank you for your attention!