## ORBITAL-ITN

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### WHAT IS THE ORBITAL - ITN

The Ocular Research by Integrated Training and Learning (ORBITAL) Project focuses on developing innovative technologies to treat diseases of the back of the eye, which are some of the main causes of blindness and sight loss in in patients over 50 in Europe.

- ▶ 15 Researchers in 11 Countries
- Partners and Beneficiaries in EU, US, UK, Canada
- Mixture of Academia, Clinician, Patient Support Organizations, and Industry
- > **€4 million** in funding, with over **€1 million** in Ireland/NI at WIT, UCD, and QUB
- > At the halfway point-funded in 2019, 6 month extension, will end Feb 2024







**OCUMEDIC** 







COMPLUTENSE











### SCIENTIFIC WORK PACKAGES

- WP3 Enhanced Medical Devices
- WP4 InnovativeNanoformulations
- > WP5 Ocular Models



#### ORBITAL RESEARCHERS



- ORBITAL ESRs are part of the consortium
  - Each has their own "home research groups"
  - Creates a larger network
- Researchers from ESRs home research groups can attend ORBITAL Training (often for free!)
- Expanded networks
  - ESRs are fully connected to these other research groups
  - Improving networking and research skills alike

#### ORBITAL TRAINING - OPEN AND ONLINE



- Due to COVID19 and travel restrictions, ORBITAL pivoted to online training
- This included creating a Youtube Channel where many of our sessions are still available

### JOURNAL CLUB AND OPEN SEMINAR SERIES





Dr. Simon Kaja





- Free and Open to public renowned scientists in the field share their expertise
- Monthly sessions both targeting hard science and "softer" skills (innovation, technology transfer), looking to ensure researchers have well-rounded and diverse training

#### SCIENTIFIC WORKSHOPS

- Fabrication & characterisation of microneedles for DD – Hosted by QUB
- Webinar "Animal Models for Ocular Disorders" Hosted by EXP
- Modelling ophthalmic drug delivery Hosted by CSM
- Polymer Reactions and Polymer Production Available at IST
- Seminar on clinical challenges in ophthalmology Hosted by UoB
- In Vitro Ocular Test Methods: HET-CAM and BCOP run by ORBITAL ESRs Axel Kattar and Ana Filipa Mota
- "Imaging Modalities in Ophthalmology & Experimental Ophthalmology" Hosted by EXP
- Ex-vivo models to study drug permeation & retention in ocular tissues to hosted at UNIPR with NAV (June 2022)



# FOCUS ON PATIENT ENGAGEMENT

- Kick-off meeting
  - Training from clinicians and patient advocacy groups
- Month 18 meeting
  - ➤ Talks from patients
- Patient as the teacher workshop World
   Café event, Lisbon, March '22
  - Seminars and lectures on Patient Engagement in Science

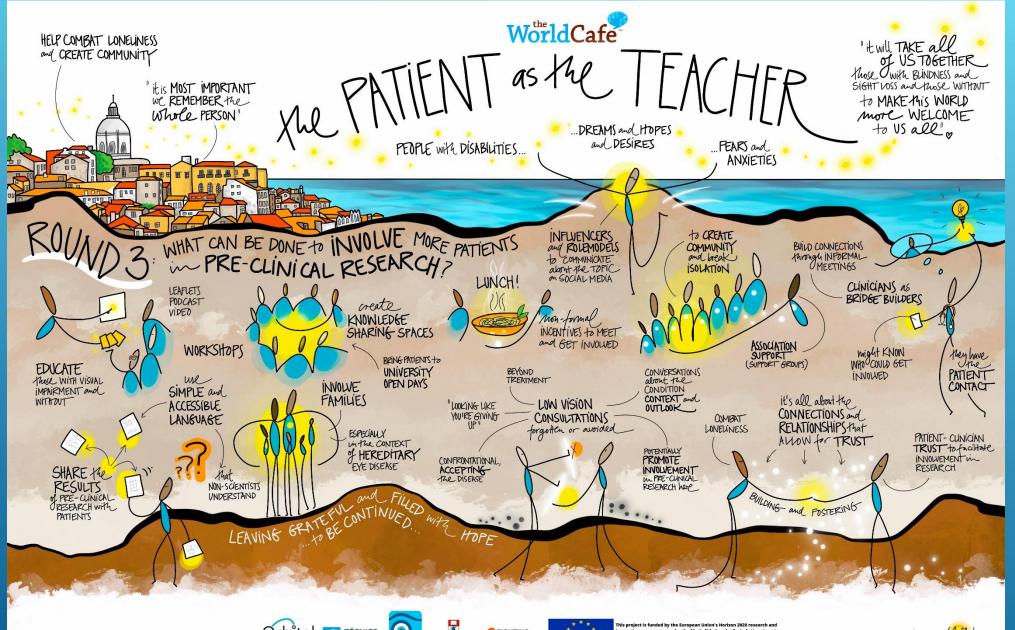


























### MANAGING AN ITN (OR DN UNDER HE)

There are two types of management happening within the Project

- ESR Supervision and Training, and overall Project Implementation

and Management

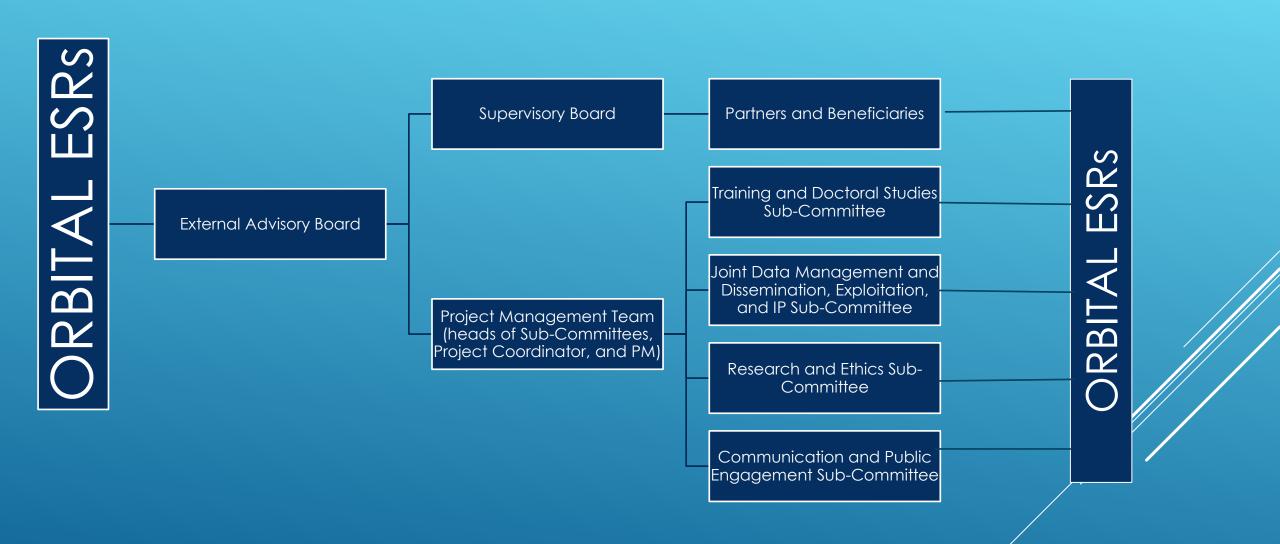
ESR Training and Development Principle
Supervisor
S

Overall Project Management













#### PROJECT MANAGEMENT - BUILD CONNECTIONS

- Take the time to find and create new
   opportunities that weren't described in the
   GA (special editions of publications,
   opportunities to collaborate with "sister" ITNs,
   join the MSCA PM Group)
  - Resources: HRB, PM² Alliance -The International Association of PM² Practitioners (pm²alliance.eu) – and many more!
- Learn from experience if you expect the project to be agile, you have to be agile too!
- Have a strong PM Team

## ORBITAL Project Management Team











Dr. Laurence Fitzhenry, PC

Tess Ames, Project Manager

Prof. Dr. Raj Thakur, Data Management, QUB

Prof. Dr. Zubair Ahmed Research and Ethics, UoB



Prof Breandán Kennedy, Communication and Public Engagement, UCD



Prof Rocío Herrero Vanrell, Training and Doctoral Studies, UCM



Paolo Gasco, Dissemination, IP, and Exploitation, NAV

# ORBITAL IN PUBLIC – COMMUNICATION AND DISSEMINATION

Media Type	Hits Y1	Total Hits/Impressions to date:
Website	7,234	21,650
Youtube	2,800	4,600
Twitter	74,388	125,484
LinkedIn	404	650
Facebook	648	3,696
Instagram	32	701
SoundCloud	277	885

- Utilize targeted social media different outlets for different audiences
  - Synthesized and cohesive Communication and Dissemination Plan were critical to this
- Update content regularly
  - ESRs create content
  - Utilize partner and Beneficiary news to keep website attractive and active
- Share with other ITNs and EU Projects
  - Collaborate with sister projects or similar consortia. Reach beyond your network





### WEB



### Resources and B Opportunity Bank - Trainings, Courses, Description of the strain of t

□ Ocular Mode Training with Anuj Chauha

Standards

Practices

- ☐ Useful Documents and Templates
- □ ORBITAL Mic Training
- Partner and Logos

You can find upcoming Opportunities for trainings, courses, dissemination opportunities, and Outreach

Useful Docu Templates



- Communicat Public Engag Committee [
- Disseminatio Exploitation. Committee [
- Research and Documents
- □ Training and Studies Com Documents
- Supervisory Boa Documents and

Activities below, or download the file, here:



Conferences and Workshops

#### ES!

use the menu below to

#### NC

found

#### PLANNING AND IMPLEMENTATION TIPS

- Keep training plan flexible and agile what can be remote if it needs to be?
- Recruit EARLY as early as possible utilize a streamlined recruitment approach to ensure FAIR and OPEN recruitment standards
- Communicate regularly and include communication with your Project Officer!
- Collect information from ESRs regularly (monthly reports on activities conducted in the project, training undertaken, etc) live secondment trackers and activity trackers help for reporting! Offer to meet regularly with them.

#### ORBITAL PUBLICATIONS AND RESEARCH



Valencia 13-15 October 2022

A special issue of Pharmaceutics (ISSN 1999-4923). This special issue belongs to the section "Drug Delivery and

#### **Share This Special Issue**









#### **Special Issue Editors**

Prof. Dr. Anuj Chauhan E-Mail Website

Guest Editor

Colorado School of Mines, Golden, CO, USA

Interests: drug delivery; transport; interfacial phenomena

#### Dr. Laurence Fitzhenry E-Mail Website SciProfiles

Guest Editor

Ocular Therapeutics Research Group, Pharmaceutical and Molecular Biotechnology Research Centre (PMBRC), Department of Science, Waterford Institute of Technology, Waterford, Ireland

Interests: drug delivery; ophthalmic; ocular drug delivery; nanomaterials; controlled release; biomaterials Special Issues, Collections and Topics in MDPI journals

#### Dr. Ana Paula Serro E-Mail Website SciProfiles

Guest Editor

Centro de Química Estrutural, Institute of Molecular Sciences, Instituto Superior Técnico, Universidade de Lisboa, 1049001 Lisboa, Portugal

Interests: controlled drug release; biomaterials characterization; biotribology; adsorption of biomolecules onto biomaterials; sterilization

Special Issues, Collections and Topics in MDPI journals



# Thank you for your time! Questions?

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