



D8.1 Project Website



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n° 863102

General Information

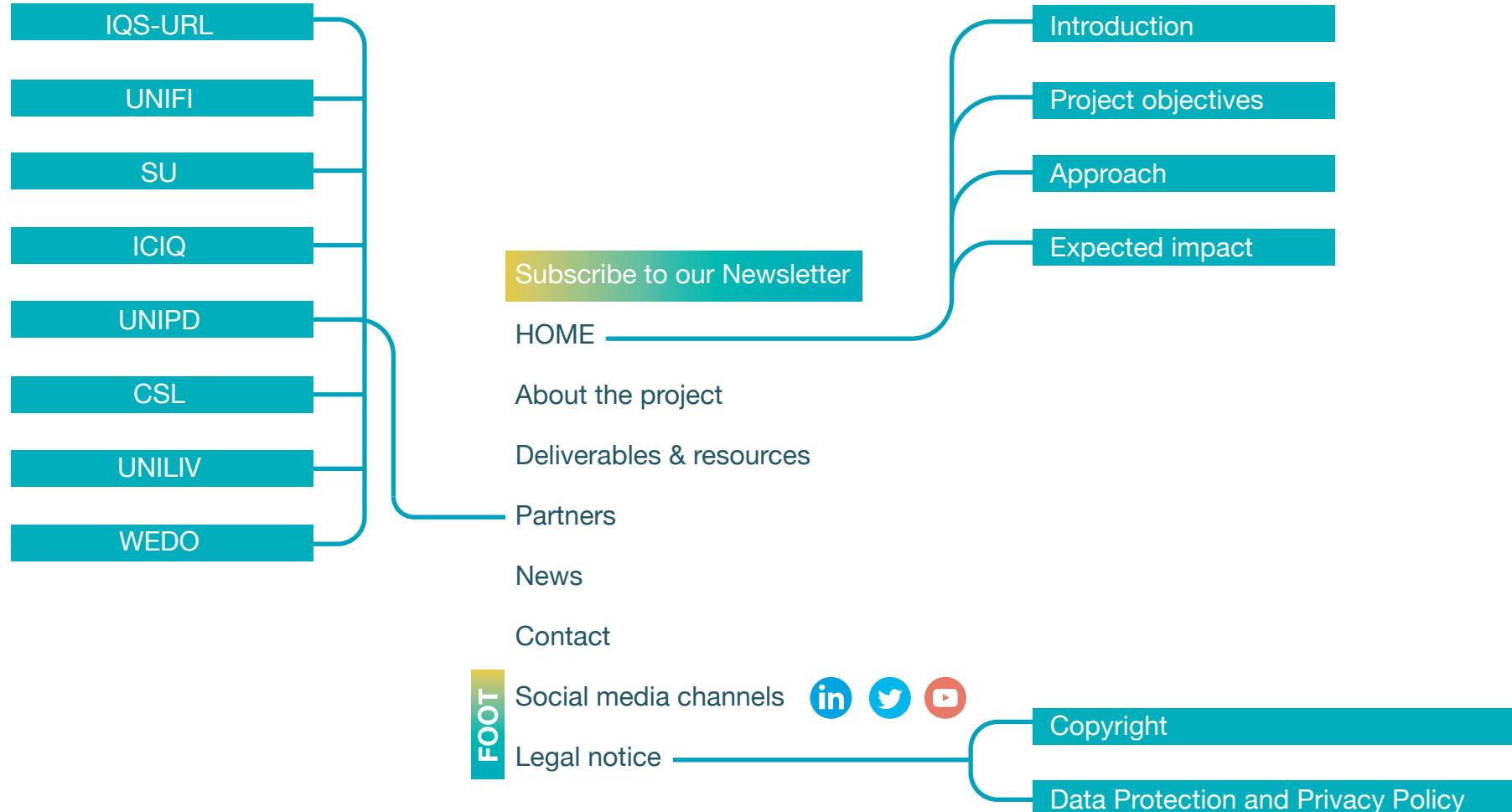
Grant Agreement Number: nº 863102.	Acronym: Light4lungs
Full title: Inhalable Aerosol Light Source for Controlling Drug-Resistant Bacterial Lung Infections	
Project URL: www.Light4lungs.eu	
Project Adviser at European Commission: IVICA CUBIC	
Deliverable title: Website Launch	Number: D8.1
Work package title: Dissemination & Exploitation	Number: WP8

Delivery date: 28/02/2020	Contractual	Actual
Status: Final	Version: 001	Draft <input type="checkbox"/> Final <input checked="" type="checkbox"/>
Nature	Report <input type="checkbox"/> Prototype <input type="checkbox"/> Other <input type="checkbox"/>	
Dissemination Level	Public <input checked="" type="checkbox"/> Confidential <input type="checkbox"/>	

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Structure





Light4Lungs project

Light4Lungs addresses the problem of antimicrobial resistance in the treatment of chronic lung infections, the leading cause of morbidity and mortality in patients with diseases such as cystic fibrosis and hospital-acquired lung infections. The 4-years project aims to develop an alternative therapeutic scheme for the treatment of these infections: a novel inhalable photodynamic therapy.

Light4Lungs departs from current paradigms as bacterial infections will be treated by a breathable light source.

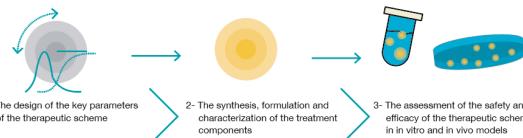
- (1) without including any externally added drug it overcomes the multidrug resistance profile;
- (2) with eliciting the therapeutic action by a breathable light source it avoids the use of invasive physical tethers.

The encompasses the development of particles with persistent luminescence, the aerosol technology for activation and delivery to the lungs, and the definition of the treatment parameters through toxicity and efficacy tests in clinically relevant models of respiratory infections.

Its results have the potential to go beyond treatment of recalcitrant respiratory tract bacterial infections to other lung diseases and to other organs, enriching fields of healthcare, nanomedicine, materials science and nanotechnology.

Project objectives

In its four years of implementation Light4Lungs will work on



- 1- The design of the key parameters of the therapeutic scheme
- 2- The synthesis, formulation and characterization of the treatment components
- 3- The assessment of the safety and efficacy of the therapeutic scheme in *in vitro* and *in vivo* models



Approach

The Consortium, with 8 partners from 4 countries, is highly interdisciplinary and synergistic, combining several different scientific areas from photonics to medicine, including materials chemistry, physical chemistry, photo-physics, pharmacology, photobiology and microbiology.

Multidisciplinary teams will be assembled to ensure cross-talk between disciplines and specialists throughout the project.

Facts in brief

Funding organization: EC / H2020 - FET Open

Timeline: December 2019 – November 2023

Funding amount: 3,493,625.00 €

Coordinator: INSTITUT QUÍMIC DE SARRIA (IQS-URL)

Partners

INSTITUT QUÍMIC DE SARRIA
UNIVERSITAT D'ESTUDIS DI FIRENZE
SORBONNE UNIVERSITÉ
FUNDACIÓ PRIVADA INSTITUT CATALÀ D'INVESTIGACIÓ QUÍMICA
UNIVERSITAT D'ESTUDIS DI PADOVA
CARDIFF SCINTIGRAPHICS LIMITED
THE UNIVERSITY OF LIVERPOOL
WEDO PROJECT INTELLIGENCE MADE EASY SL

Partners



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DI PADOVA



Home



Partners

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Universitat Ramon Llull

IQS Persona Ciencia Empresa

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INSTITUT QUIMIC DE SARRIA



UNIVERSITA DEGLI STUDI DI FIRENZE



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Light4Lungs

Our Project



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Contact

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info@light4lungs.eu

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Light4Lungs



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