

Inhalable Aerosol Light Source For Controlling Drug-resistant Bacterial Lung Infections

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DOCUMENT INFORMATION

Grant Agreement Number		863102	Acronym	Light4Lungs
Full title Inhalable Aerosol Light Source For Controlling Drug-resistant Bacterial Lung Infections				
Project URL		www. light4lungs.eu		
EU Project officer		Ivica Cubic		

Deliverable number: D7.2	Title	Data Management Plan
Work package number: 7	Title	Project Coordination & Management

Delivery date	Contractual	M6	Actual	M12
Status	Version: 1.4		Draft 🗖	Final 🗹
Nature	ORDP 🗖 Re	port 🗹 Websites 🗖 Ethics 🗖		
Dissemination Level	Public 🗹 Cor	nfidential 🗖		

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Reviewer / contributor	Mireia Manent (WeDo)		E-mail: mireia@wedo-projects.com				





Description of the deliverable (3-5 lines)	Document including the description of the data generated in the project, as well as the different processes for ensuring its appropriate management and curation according to international standards.
Key words	Data Management, FAIR, Open Access.

DOCUMENT HISTORY

NAME	DATE	VERSION	DESCRIPTION
Santi Nonell Marrugat	30/10/20	V1	Final draft
Mireia Manent Ángel Honrado	02/11/20	V1.1	First Review
Santi Nonell	10/11/20	V1.2	Second draft
Consortium review	26/11/20	V1.3	Third draft
Santi Nonell	30/11/20	V1.4	Final





DEFINITIONS & ACRONYMS

DOI - Digital Object Identifiers

DMP - Data Management Plan

FAIR principles - Principles of findability, accessibility, interoperability and re-usability

Horizon 2020 - financial instrument implementing the Innovation Union, a Europe 2020 flagship initiative aimed at securing Europe's global competitiveness.

IPR - Intellectual property rights, refers to the general term for the assignment of property rights through patents, copyrights and trademarks.

Light4Lungs - acronym of the FET Open project entitled "Inhalable Aerosol Light Source for Controlling Drug-Resistant Bacterial Lung Infections"

ORCID - Open Researcher and Contributor ID; non-proprietary alphanumeric code to uniquely identify scientific and other academic authors and contributors.

OpenAIRE - European project supporting Open Science; network of dedicated Open Science experts promoting and providing training on Open Science, but also technical infrastructure harvesting research output from connected data providers.

ROAR - Registry of Open Access Repositories, a searchable international database indexing the creation, location and growth of open access institutional repositories and their contents.

SharePoint - collaborative platform that integrates with Microsoft Office, primarily sold as a document management and storage system.

Teams - proprietary business communication platform developed by Microsoft

WP - Work package, the smallest unit of work that a project can be broken down to when creating your Work Breakdown Structure



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EXECUTIVE SUMMARY

This report is the second deliverable of the Light4Lungs WP7 Project Coordination & Management, and the starting version of the Data Management Plan (DMP) for the Light4Lungs project, funded by the EU's Horizon 2020 Programme under Grant Agreement number 863102.

The purpose of the DMP is to provide an overview of all datasets collected and generated by the project and to define the Light4Lungs consortium's associated data management policy, both at the administrative and technical levels, that is used with regard to these datasets.

The document considers and includes the structure of the Horizon 2020 DMP template¹ to report on the datasets to be produced and used with a dedicated annex, as well as how it will be published and deposited.

The consortium will work on the regular revision and update of this deliverable and specially its annex.

¹ https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/oa_pilot/h2020-hi-oa-data-mgt_en.pdf





1 INTRODUCTION

1.1 Project Overview

The FET Open project entitled **Inhalable Aerosol Light Source for Controlling Drug-Resistant Bacterial Lung Infections** (with acronym **Light4Lungs** and Grant agreement ID: 863102) proposes a novel approach to address the problem of antimicrobial resistance in the treatment of chronic lung infections, which are the leading cause of morbidity and mortality in patients with diseases such as cystic fibrosis and hospital-acquired lung infections. The goal is to develop a novel therapeutic scheme for the treatment of the infections, replacing antibiotics by inhalable light sources that will excite bacterial endogenous photosensitizers (e.g., iron-free porphyrins), eliminating the pathogenic bacteria by the photodynamic effect (local production of cytotoxic reactive oxygen species by the combined action of light, a photosensitiser and oxygen) irrespective of its multidrug resistance profile. The aim is to have a safe treatment for the host tissue thanks to its lack of self-photosensitising ability.



Figure 1. The Light4Lungs 5-step concept

In pursuit of this goal, the Light4Lungs consortium members will collect or generate data at various stages of the project.





The full Consortium is formed by institutions:

- 1. INSTITUT QUIMIC DE SARRIA (IQS-URL) Project coordinator
- 2. UNIVERSITA DEGLI STUDI DI FIRENZE (UNIFI)
- 3. SORBONNE UNIVERSITE (SU)
- 4. FUNDACIO PRIVADA INSTITUT CATALA D'INVESTIGACIO QUIMICA (ICIQ),
- 5. UNIVERSITA DEGLI STUDI DI PADOVA (UNIPD)
- 6. CARDIFF SCINTIGRAPHICS LIMITED (CSL)
- 7. THE UNIVERSITY OF LIVERPOOL (UNILIV)
- 8. WEDO PROJECT INTELLIGENCE MADE EASY SL (WeDo)

1.2 Document objectives

This data management plan (DMP) aims at providing an overview of the types of data that will be managed in Light4Lungs and specifies how data will be collected, used, stored, and shared.

The DMP has been prepared in accordance with current H2020 guidelines for data management¹. It is envisioned as a living document that will be updated throughout the project implementation to reflect any issues that may arise related to data management in Light4Lungs. The core of the document is the table in the annex (section 8), which breaks down all the projected data management activities in Light4Lungs by work package (WP) and task according to the official project structure, and indicates the title, purpose, format, origin, data owner, repository, re-use (if applicable) and connection with patentable results (when applicable), dissemination level and users. At a minimum, the table will be updated annually for the duration of the project with the last update at project completion.

Preceding the table, sections will provide an overview of the use of data in the project, set out the general data management principles adhered to by the consortium, and address various issues of relevance to data management.

1.3 Relation to other project deliverables

The DMP defines the general data management policies, in accordance with the H2020 FAIR principles, open data requirements and implementation guides. It is related to both the D7.1 Project Handbook and D8.2 Plan for the Use and Dissemination of the Project Results in what concerns to the procedures for data management to





ensure open access whilst securing IPR interest of consortium partners and to the project communication preserving confidentiality interests.

This DMP applies mainly to new results and data generated in the context of the Light4Lungs project and that are to be made available by the consortium as open source, open science and open data. It thereby relies on state-of-the-art technical solutions and standards like Digital Object Identifiers, ORCID, OpenAIRE and ROAR for the implementation of these procedures.

2 DATA SUMMARY

2.1 Types of Data Collected, Origin and Format

The Light4Lungs consortium will both collect and generate data throughout its implementation.

Types of Data

Data collected will come mainly from publicly available sources (publications, public repositories, etc) and will be utilized for the definition of the experimental models, methods and protocols within the project. The project does not anticipate the use of licensed or privately-owned restricted data for this purpose.

Data generated in the context of the project can be divided into:

- Experimental data: data generated during the experimental work of the project: Methods and Results.
 Part of these data is expected to be made publicly available via publications and repositories, and another part will remain as confidential until patentability of project results or alternative protection mechanisms are elucidated.
- Internal communication data: correspondence, minutes of meetings, internal reports, internal presentations, IPR related documents and patentability analysis of project outcomes.
- External communication data: reports to the European Commission, publications in open source, social media and other communication tools used by the project at conferences, meetings, trainings, etc (either presential or online). Also, job opportunity postings and other project management data.





Data generated will be stored in accessible formats whenever possible:

Data Format (most commonly used)

Websites: .html, ...

Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, ...

Images and/or videos: mp4, .jpg, .mov, .png, ...

Origin of Generated Data

The three main data categories will be generated from the following origins:

- **Experimental data**: will be generated in WPs 1 to 6, covering all the particles and aerosol design and characterization activities, as well as the testing via in vivo and in vitro experiments.
- Internal communication data: all WPs in Light4Lungs will generate data for internal uses only, i.e. minutes of meetings, internal communications to exchange data, agree on procedures, define procedures, etc.
- **External communication data**: all WPs are expected to be generating data for external communication purposes (project presentation, reporting on progress, communicate relevant findings, to present results), with WP7 and WP8 being at the frontline.

2.2 Roles and Responsibilities

As mentioned, data management activities concern the whole project and need to be coordinated and monitored both at project and work package level, considering dissemination and exploitation activities. Therefore, the following roles and responsibilities can be identified:

The **Project Data Manager** at IQS-URL, responsible for:

- developing the Light4Lungs DMP in cooperation with all consortium partners
- coordinating the foreseen regular update of the Light4Lungs DMP
- monitoring data management activities (both collection and publication) and ensuring deadlines attainment
- providing support to WP data managers
- providing solutions for data management specific issues in accordance with project management



- revising alongside the Work Package Data Managers that data is revised with regards IPR and potential exploitation interests
- assisting, with the project Coordination Leadership Team, in choosing the most suitable publication path for publications in the context of the project, and that publication review processes (as described in D8.2) are timely implemented.
- monitoring that publications that cannot be gold access and thus are green access (self-archiving) are deposited in repositories, and sending reminders to partners
- monitoring that metadata about publications is made available in the R&I Participant Portal (preferably automatically through OpenAIRE) and on the Light4Lungs website.
- monitoring that research data related to a publication is made available in repositories and linked to respective publication, ensuring that IPR interest are protected.
- monitoring possible embargo periods and sending reminders to partners

The Work Package Leads will act as Data Managers at the WP level, responsible for

- ensuring the implementation of the data management policy in their respective WPs
- monitoring data management activities and deadlines and sending reminders to partners
- asking partners for missing information or clarifications
- providing input for the update of the DMP by analysing and summarising the WP-specific datasets listed or to be added and ensuring that metadata is made available.
- monitoring that open results (data and software) are deposited in an OpenAIRE-compliant repository
- monitoring that open results available in OpenAIRE are properly linked to the project.

Work undergone for data management will be designed and implemented in alignment with the Communication and Dissemination lead to ensure both maximizing communication and dissemination of FAIR data while preserving IPR interests' protection.



3 FAIR DATA

3.1 Findability

The first of the FAIR principles requires researchers to make sure that the existence of – and some basic information about – the datasets they have collected and used can be easily discovered by other researchers. The concept of findability is distinct from the concept of accessibility (a dataset might be findable but subject to access restrictions; or it might be freely accessible but difficult to find).

In Light4Lungs data will be findable via:

- Public deliverables made available during the course of the project implementation: 41% of project deliverables are going to be made public, including those describing methods, protocols and models used.
- **Project publications:** the project has a gold open access policy for publications, using the green open access alternative only when the first one is not possible.
- Website: a database listing metadata of data generated, including repositories where it has been stored and / or access to data sets when not restricted, will be made available via the project website.
 Data will be set searchable by queries.

3.2 Accessibility

The second FAIR principle is to provide open access to the data used in a research project, enabling other researchers to verify the published findings of the project and conduct further research using the same data. Light4Lungs intends to make accessible data generated, with a few provisos. Specifically, the approach to data accessibility summarized as follows:

- All data collected within the project will be shared within the consortium by means of the **SharePoint** repository and associated Teams channel created for this purpose.
- All major datasets collected and used will be made accessible for download by the end of the project (subject to the applicable restrictions as listed in the point below) either via the **project website** repository or by inclusion into existing relevant **OpenAIRE-compliant repositories**.





- Data will be made accessible via **broadly used file formats**, avoiding not advanced or prohibitively expensive software.
- Data generated which will be relevant for patentability or protection of results will only be made available once exploitation interests from all parties involved have been secured in whatever form is most suitable (with or without aggregation). Likewise, if any party requests certain data to be treated as confidential, the project will work to honour the request. In the meantime, will be saved in the corresponding secured SharePoint repository.

3.3 Interoperability

The third FAIR principle is to ensure that research data can be used by other researchers without first undergoing costly and time-consuming adaptations to make the data compatible with other, existing datasets or particular tools of analysis.

Light4Lungs intends to make data available readable with major data analysis software.

3.4 Re-usability

The final FAIR principle is to maximize the re-usability of research data by minimizing any restrictions placed on future users of the data in the form of licensing requirements, time-limited embargoes on data usage during patent applications, or the like.

This in the case of Light4Lungs is of special consideration and that is why, in anticipation of the potential delay in making data available to secure future exploitation of results, the project intends to make methods, protocols and information of properties required available early on via publication or public deliverables as well as publishing the related metadata.

4 DATA STORAGE AND SECURITY

Collected/generated data in Light4Lungs will be stored and shared among the project partners via the project SharePoint / Teams channel made available to the project by partner WeDo. Data can be secured in this online platform through functions:





- Accessing to the data platform requires a two-factor authentication (one user-password and one additional authentication code).

- Data transition is protected by encryption.

- Data will be continuously validated.

- Data can always be recoverable, as data is mirrored in at least two data centres and can be restored to any point in time within a 5-minute window.

Further steps to enhance data security (like the creation of specific subfolders with additional user restrictions to secure IPR interest protection) will be discussed within the Consortium and updated both in the corresponding repositories and DMP.

Also, all consortium members will ensure that data stored and not shared via the project repository (mainly raw data) will be aligned with the overall project repository requirements at their local repositories, paying due attention to their national and institutional obligations. In connection with this, special attention will be paid to the conservation at partners' local repositories of all ethical and regulatory approvals and related documentation, to be made available upon request whenever the European Commission deems it convenient. Additionally, data generated to be made publicly available will be published via the website repository (considering the different levels of accessibility, requiring when appropriate user authentication) as well as the linkage to selected relevant OpenAIRE-compliant repositories.

5 ALLOCATION OF RESOURCES

Data management in Light4Lungs is dealt with in WP7 Project Coordination and Management, being the coordinator the main responsible of the task, hosting the Project Data Manager (a member of the coordinating team), and with the support of the WP Data Managers (WP Leads). Associated effort for this task was foreseen in the budget construction, though the precise final total cost of the personnel working to make research data FAIR will be subject to decisions not yet made, such as the choice of repositories for datasets or IPR protection measures.

Additionally, a 2% of the total budget was earmarked for covering publication costs in gold open access for consortium members planning to write and publish papers in academic journals as part of the project. This is consistent with the general H2020 regulation and should allow making results broadly available. With the support





of the Communication and Dissemination Lead, the project website, social media and other dissemination resources will be used to maximize the distribution of the public information.

6 ETHICAL ASPECTS

Special consideration to data management related ethical aspects will be taken in the context of WP7 Project Coordination and Management. Foreseen activities include:

- The review of knowledge acquisition from data collected with regards data origin, availability (public and restricted), relevance, etc.
- Ensuring data security measures are in place and regularly monitoring data protection requirements with consortium members concerned.
- Regular update and monitoring of data collection, storage, protection, retention and destruction during the project implementation, in compliance with European and nation-specific legislations and provisions.
- The identification and liaison with relevant experts to be included in project Scientific Advisory Board (SAB) for resolving specific ethics questions connected with data if and when needed.
- The development of appropriate risk mitigation and contingency strategies for data management within the overall project risk management.

7 REFERENCES & RESOURCES

European Commission Horizon 2020 Online Manual – Data Management section

https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-datamanagement/data-management_en.htm

European Commission Horizon 2020 Online Manual- Open Access

https://ec.europa.eu/research/participants/docs/h2020-funding-guide/cross-cutting-issues/open-access-data-

management/open-access_en.htm

European IPR Helpdesk Fact Sheet Publishing v Patenting

https://www.iprhelpdesk.eu/sites/default/files/newsdocuments/Patenting_v.publishing_0.pdf

FORCE11 The FAIR data principles





https://www.force11.org/group/fairgroup/fairprinciples

Wilkinson M.D, Dumontier M, [...] Mons B. The FAIR Guiding Principles for scientific data management and stewardship

https://www.nature.com/articles/sdata201618

OpenAIRE Guidelines for Literature Repositories <u>https://guidelines.openaire.eu/en/latest/literature/index.html</u>

OpenAIRE https://www.openaire.eu/

B2Share Eudat https://b2share.eudat.eu/

Re3data.org https://www.re3data.org/

Zenodo https://zenodo.org/

DMP Online https://dmponline.dcc.ac.uk/





8 ANNEX- LIGHT4LUNGS DATA TABLES

Work Package number 1 - Selection and Development of Models								
Task number 1 - In vitro Models								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Literature data on lung infections and related bacteria photolability	Understanding the state-of- the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know- how	Y	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		
Literature data on cell models of the respiratory tract	Understanding the state-of- the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know- how	Y	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		
Laboratory and commercial devices for aerosol delivery in in vitro models	Understanding the state-of- the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know- how	Y	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		
Suitable methodologies for assessing nanoparticles toxicity on in vitro models of the respiratory epithelium	Understanding the state-of- the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv,	Scientific Literature, data repositories, company websites,	Y	Scientific journals, biomed	websites, web-based repositories, and		



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		Images and/or videos:	consortium		companies,	consortium				
		mp4, .jpg, .mov, .png,	previous know-		consortium	repositories				
			how							
Data generated - Experimental	Data generated - Experimental									
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository				
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Data generated – Internal comr	nunication									
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository				
List of chosen bacterial strains	to define the models to be used in WPs 2, 5, 6	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
List of chosen mammalian cells	to define the models to be used in WPs 2, 5, 6	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
List of chosen lung infection models	to define the models to be used in WPs 2, 5, 6	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
Methods for assessing aerosol antimicrobial activity	to define the general guidelines for irradiation of in vitro bacteria models and eukaryotic cells	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
Methods for assessing aerosol biocompatibility and toxicity	to identify suitable methods to assess aerosol	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				





	biocompatibility					
	and toxicity					
Data generated – External comr	nunication					
Title	Purposo	Format	Dissemination	Patentability	llsors	Popository
The	Fulpose	Format	level	related	Users	Repository
Report on the chosen in vitro	Dolivorable 1 1	ndf	Public	N	Public	Consortium,
models	Deliverable 1.1	.pu	FUDIIC	IN	Fublic	EC
Report on irradiation and						Consortium
toxicity/biocompatibility study	Deliverable 1.3	.pdf	Public	N	Public	FC
protocols in vitro						20

Work Deckage number 1. Selection and Development of Medels								
Task number 2 In vive Preclinical Infection Medals								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Laboratory and commercial devices for aerosol delivery in in vivo models	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Methods for assessing aerosol antimicrobial activity in vivo	Understanding the state-of-the-art	.pptx, .xlsx, .docx, .pdf	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Methods for assessing nanoparticles toxicity on in vivo lung infection models	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experi	mental							





Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository				
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Data generated – Interr	Data generated – Internal communication									
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository				
Report on chosen in vivo lung infection model	to define the model to be used in WP 6	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
Methods for assessing aerosol antimicrobial activity in vivo	to define the general guidelines for irradiation of the in vivo lung infection model and assessment of the antimicrobial activity	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
Methods for assessing aerosol biocompatibility and toxicity	to identify suitable methods to assess aerosol biocompatibility and toxicity in vivo	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium				
Data generated – Extern	nal communication									
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository				
Report on the chosen in vivo models	Deliverable 1.1	.pdf	Public	N	Public	Consortium, EC				
Report on irradiation and toxicity/biocompatibility study protocols in vivo	Deliverable 1.3	.pdf	Public	N	Public	Consortium, EC				

Work Package number 1 - Selection and Development of Models

Task number 3 - Aerosol Model

Data collected





Title	Burnoso	Format Origin	Origin	Re-use of	Data owner	Papasitory
The	Purpose	Format	Ongin	existing data	(if relevant)	Repository
		Websites: .html,	Scientific Literature,		Scientific	websites, web-
Persistent luminescence	Understanding the	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
properties of several	state of the art	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Y	biomed	repositories,
materials	State-or-the-art	Images and/or videos: mp4, .jpg,	consortium previous		companies,	and consortium
		.mov, .png,	know-how		consortium	repositories
		Websites: .html,	Scientific Literature,		Scientific	websites, web-
Chemical and physical	Understanding the	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
properties of luminescent	of the art	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Y	biomed	repositories,
particles	state-or-the-art	Images and/or videos: mp4, .jpg,	consortium previous		companies,	and consortium
		.mov, .png,	know-how		consortium	repositories
		Websites: .html,	Scientific Literature,		Scientific	websites, web-
Marphological properties	Understanding the	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
of luminoscent particles	Understanding the	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Y	biomed	repositories,
of furninescent particles	State-or-the-art	Images and/or videos: mp4, .jpg,	consortium previous		companies,	and consortium
		.mov, .png,	know-how		consortium	repositories
		Websites: .html,	Scientific Literature,		Scientific	websites, web-
Methods for determining	Understanding the	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
action spectra of bacterial	onderstanding the	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Y	biomed	repositories,
photoinactivation	State-or-the-art	Images and/or videos: mp4, .jpg,	consortium previous		companies,	and consortium
		.mov, .png,	know-how		consortium	repositories
		Websites: .html,	Scientific Literature,		Scientific	websites, web-
Mothods for proparing	Understanding the	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
	state of the art	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Y	biomed	repositories,
aerosors	State-or-the-art	Images and/or videos: mp4, .jpg,	consortium previous		companies,	and consortium
		.mov, .png,	know-how		consortium	repositories
		Websites: .html,	Scientific Literature,		Scientific	websites, web-
Mothods for sharastorizing	Understanding the	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
	state of the art	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Y	biomed	repositories,
aerosois	State-or-the-art	Images and/or videos: mp4, .jpg,	consortium previous		companies,	and consortium
		.mov, .png,	know-how		consortium	repositories
Data generated - Experi	mental					
Title	Durnasa	Format	Origin	Re-use of	Data owner	Denesiteru
The	Purpose	ronnat	Origin	existing data	(if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A





Data generated – Internal communication								
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		
Report on the required optical and photophysical properties of the light- emitting particles	To define the optical and photophysical requirements for the light-emitting particles	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Report on the required chemo-physical properties of light-emitting particles	To define the chemophysical requirements for the light-emitting particles	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Method to obtain the action spectrum	to define the method to be used in WP2 to determine the in vivo photokilling action spectrum	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Aerosol model, vehicles, carrier, and activation	To define the type of aerosol to be developed and the mechanism of activation	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Methods to characterize the aerosol optical and photophysical properties	To identify suitable methods to characterize the aerosol optical and photophysical properties	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Methods to characterize the aerosol chemo- physical properties	to identify suitable methods to characterize the aerosol chemo- physical properties	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		





Data generated – External communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository	
Report on aerosol required chemo- and photophysical properties	Deliverable 1.1	.pdf	Public	Ν	Public	Consortium, EC	
Report on chemo-/photo- physical and optical characterization methods	Deliverable 1.3	.pdf	Public	Ν	Public	Consortium, EC	

Work Package number 2 - Action Spectrum Determination								
Task number 1 - In vitro bacterial photokilling efficiency								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Literature and consortium data about endogenous photosensitizers	Understanding the state-of-the-art and adjusting it to the chosen strains	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Literature and consortium data about light photoinactivation	Understanding the state-of-the-art and adapt to the specific case of aerosol irradiation	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experi	mental							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Endogenous porphyrin quantification	To contribute to the calculation of the action spectrum	.xlsx	Laboratory	N	N/A	Consortium		
Dose-response dependence	To contribute to the calculation of	.xlsx	Laboratory	N	N/A	Consortium		





	the action spectrum							
Data generated – Internal communication								
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		
Photokilling protocol and results	To contribute to the calculation of the action spectrum	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Data generated – Exter	nal communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		
Report on in vitro bacterial photokilling efficiency	Deliverable 2.1 and publication	.pdf	Public	Ν	Public	Consortium, EC		

Work Package number 2 - Action Spectrum Determination								
Task number 2 - Biofilm chemo-physical and optical properties								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Literature and consortium data about bacterial biofilms, particularly in the lungs	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experi	mental							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Biofilm characterization	To contribute to the calculation of	.xlsx	Laboratory	N	N/A	Consortium		





	the action					
	spectrum					
	To contribute to					
Ex-vivo lung tissue	the calculation of	Nov	Laboratory	N		Concortium
characterization	the action	.xisx	Laboratory		N/A	Consol tium
	spectrum					
Data generated – Interr	nal communication					
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository
Analysis of biofilm shome	To contribute to					
analysis of biofilm chemo-	the calculation of	naty visy docy adf	Consortium	N	Consortium	Consortium
properties	the action		Consolition		consortium	Consol tium
properties	spectrum					
	To contribute to					
Analysis of ex-vivo lung	the calculation of	naty visy docy adf	Consortium	N	Consortium	Consortium
tissue optical properties	the action		consortium		Consolition	
	spectrum					
Data generated – Exter	nal communication					
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository
Report on optical						
properties of the bacterial	Deliverable 2.2 and	pdf	Dublic	N	Dublic	Consortium EC
biofilm and of ex-vivo lung	publication		FUDIIC		PUDIIC	
tissue						

Work Package number 2 - Action Spectrum Determination								
Task number 3 - In vivo action spectrum for bacterial photokilling								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Literature and consortium optical properties data relative to mucous/biofilm, lung tissues, P. aeruginosa and S. aureus pigments	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		



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and porphyrins, lung anatomical data						
Methods for modelling action spectra	Understanding the state-of-the-art and adapting it to the current project	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories
Data generated - Experi	mental					
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
Semi-theoretical modelling of infected lung tissue optical properties	To be merged with data from T2.1 and T2.2 to give the final in vivo action spectrum for bacterial photokilling.	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Data generated – Intern	al communication			·	·	
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Action spectrum for in vivo bacterial photokilling	To drive the re- design of the luminescent particles and help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium
Data generated – Extern	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Report on action spectrum for in vivo phototherapy	Deliverable 2.3	.pdf	Confidential	Y	Consortium	Consortium, EC





Work Package number 3 - Synthesis & Characterization of the Light Emitter								
Task number 1 - Design,	Synthesis and Cha	racterization of the Light Emitt	er					
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Methods for the synthesis of luminescent particles	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Methods for surface coating	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Methods for surface functionalization	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Y	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Methods for characterizing the chemo-physical properties of light-emitting particles	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	Ν	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experi	mental							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Synthesis, coating, and functionalization of light- emitting particles	Methods for the preparation of light-emitting particles	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		
Chemical characterization of the particles	To study the chemical	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		





	composition, crystalline phase, and surface charge of the particles							
Morphological characterization of particles	To study the size, shape, dispersion, and homogeneity of the particles	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Excitation of the particles' luminescence	To investigate the excitation methods	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		
Data generated – Internal communication								
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Protocols for the synthesis, coating, and functionalization of the light-emitting particles	To help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Chemo-physical properties of the light-emitting particles	To help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Excitation and emission spectra of the particles	To investigate the optical properties of the particles.	.pptx, .xlsx, .docx, .pdf	Consortium	N	Consortium	Consortium		
Protocol for excitation of the particles	To help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Data generated – Exterr	nal communication							
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Protocol for synthesis and excitation of luminescent particles	Deliverable 3.1	.pdf	Confidential	Y	Consortium	Consortium, EC		





Work Package number 3 - Synthesis & Characterization of the Light Emitter								
Task number 2 – Light E	mitting Properties	of the Particles Alone and Inter	racting with Bacteria					
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Methods for characterizing the chemo-physical properties of light-emitting particles	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Methods for characterizing the optical and photophysical properties of light-emitting particles	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experimental								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Chemical characterization of the particles	To study the chemical composition, crystalline phase, and surface charge of the particles	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Morphological characterization of particles	To study the size, shape, dispersion, and homogeneity of the particles	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Excitation and emission spectra of the particles	To investigate the optical properties of the particles.	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Time profile of the luminescence	To assess the luminescence persistence	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		





Photochemical characterization of the particles	To study the production of singlet oxygen in bacteria exposed to the particles	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Data generated – Internal communication								
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Optical and photophysical properties of the light- emitting particles	To help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Optical and photophysical properties of the light- emitting particles interacting with bacteria in planktonic phase	To help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Optical and photophysical properties of the light- emitting particles interacting with bacteria in biofilms	To help define phototherapy protocols	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Data generated – Extern	nal communication							
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Report on the physico- chemical and photophysical characteristics of the particles	Deliverable 3.2	.pdf	Confidential	Y	Consortium	Consortium, EC		





Work Package number 4 – Aerosol Formulation									
Task number 1 – Aerosc	Task number 1 – Aerosol Formulation								
Data collected									
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository			
Methods for aerosol formulation and generation	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories			
Methods for characterizing the chemo-physical properties of aerosols	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories			
Methods for characterizing the light emission by diffuse sources	To define a method to characterize the aerosol emission starting from existing techniques	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories			
Data generated - Experi	mental								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository			
Aerosol formulation	To study the chemical composition of the aerosol	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium			
Chemo-physical characterization of aerosol	To study the size, shape, dispersion, and homogeneity of the particles	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium			
Method for assessing the light-emission properties of the aerosol	To investigate the optical properties of the particles.	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium			





Data generated – Internal communication								
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Chemical characterization of aerosol formulation	Development of aerosol	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Aerosol stability	Development of aerosol	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Method for assessing the light-emission properties of the aerosol	To investigate the optical properties of the particles.	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium		
Data generated – External communication								
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Report on the stability and compatibility of light- emitting particles	Deliverable 4.1	.pdf	Confidential	Y	Consortium	Consortium, EC		

Work Package number 4 – Aerosol Formulation								
Task number 1 – Aerosol Characterization								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Methods for aerosol formulation and generation	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		
Methods for characterizing the chemo-physical properties of aerosols	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		





Methods for characterizing the light-emitting properties of aerosols	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		
Methods for aerosol delivery to lung infections	Understanding the state-of-the-art	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web-based repositories, and consortium repositories		
Data generated - Experimental								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Aerosol generation, and utilisation	To develop a method for aerosol generation and utilisation	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		
Chemo-physical characterization of aerosol	Characterization	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Aerosol excitation	Characterization	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		
Light-emission properties of the aerosol	Characterization	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		
Data generated – Intern	al communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		
Method and device for aerosol generation	Setup of device for aerosol generation and activation	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Method for aerosol phosphorescence activation	To define a protocol for aerosol excitation	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Chemo-physical properties of aerosol	Characterization of aerosol	.pptx, .xlsx, .docx, .pdf	Confidential	Υ	Consortium	Consortium		





Light-emitting properties of the aerosol	Characterization of aerosol	.pptx, .xlsx, .docx, .pdf	Confidential	Υ	Consortium	Consortium		
Light-emitting properties of the aerosol interacting with bacteria in planktonic phase	Characterization of aerosol	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Light-emitting properties of the aerosol interacting with bacteria in biofilms	Characterization of aerosol	.pptx, .xlsx, .docx, .pdf	Confidential	Y	Consortium	Consortium		
Data generated – External communication								
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		
Report about: (i) operating procedure for aerosol formulation, generation, and utilisation in vitro and in vivo (ii) aerosol light-emission and chemo-physical	Deliverable 4.2	.pdf	Confidential	Y	Consortium	Consortium, EC		

Work Package number 5 – In vitro Studies of Aerosol Efficacy & Biocompatibility								
Task number 1 – Aerosol Efficacy								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Existing protocols for aerosol delivery in vitro	To enable in vitro photo-killing experiments with the luminous aerosol as a source	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experi	mental							





				-				
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
in vitro aerosol efficacy	To characterize the aerosol photokilling efficacy in in vitro models	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Data generated – Internal communication								
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Protocol for aerosol delivery for in vitro studies	To define irradiation protocols in vitro	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium		
In vitro aerosol efficacy for bacterial photokilling	in vitro aerosol photokilling efficacy assessment	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium		
Data generated – External communication								
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository		
Report on the dose-effect curves for in vitro irradiation with the light- emitting aerosol	Deliverable 5.1 and publication	.pdf	Public	N	Consortium	Consortium, EC		

Work Package number 5 – In vitro Studies of Aerosol Efficacy & Biocompatibility								
Task number 2 – Aerosol Biocompatibility								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Lung tract cell models and methods to evaluate aerosol biocompatibility / cytotoxicity	To enable in vitro biocompatibility / cytotoxicity	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv,	Scientific Literature, data repositories, company websites,	Ν	Scientific journals, biomed	websites, web-based repositories, and		



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement nº 863102



	evaluation of the	Images and/or videos: mp4, .jpg,	consortium previous		companies,	consortium	
	aerosol formulation	.mov, .png,	know-how		consortium	repositories	
Data generated - Experi	mental						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
Generation of air-liquid interface cell cultures	To assess the aerosol biocompatibility / cytotoxicity in in vitro models	.pptx, .xlsx, .docx, .pdf	Laboratory	Y (limited to existing lungs in-vitro models)	Consortium	Consortium	
Biocompatibility of the aerosol NPs in in vitro models of the respiratory tract	To assess the aerosol biocompatibility / cytotoxicity in in vitro models	.pptx, .xlsx, .docx, .pdf	Laboratory	Y (limited to existing lungs in-vitro models)	Consortium	Consortium	
Data generated – Internal communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository	
Protocols for the evaluation of cell biocompatibility / cytotoxicity of the aerosol formulation	Biocompatibility / cytotoxicity assessment in vitro	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Biocompatibility of the aerosol in in vitro models of the respiratory tract	To assess biocompatibility of the aerosol excluding in vitro cell toxicity	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Data generated – Extern	nal communication						
			· · · · · · · · · · · · · · · · · · ·	1			
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository	





Work Package number 6 – Aerosol Irradiation in Lung Tissue Culture & Preclinical in vivo Infection Models								
Task number 1 – Bacterial Photokilling Assessment in TCC and ASM in vitro Lung Infection Models								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Existing protocols for aerosol delivery in vitro	To enable in vivo photo-killing experiments with the luminous aerosol as a source	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories		
Data generated - Experi	mental							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
Photokilling dose-effect curve in the in vitro TCC (triple cell culture) lung infection model	To characterize the aerosol photokilling efficacy in the in vitro TCC model	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium		
Bacterial CFUs at various time points post aerosol exposure in the in vitro TCC lung infection model	To characterize the aerosol photokilling efficacy in the in vitro TCC model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Photokilling dose-effect curve in the ASM (artificial sputum medium) lung infection model	To characterize the aerosol photokilling efficacy in the ASM lung infection model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Bacterial CFUs at various time points post aerosol exposure in the ASM lung infection model	To characterize the aerosol photokilling efficacy in the ASM lung infection model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium		
Data generated – Intern	al communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		





Protocol for aerosol delivery for in vitro studies	To define in vivo aerosol delivery protocols	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Aerosol efficacy for bacterial photokilling in the in vitro TCC lung infection model	in vitro aerosol photokilling efficacy assessment	.pptx, .xlsx, .docx, .pdf	Public	Ν	Consortium	Consortium	
Aerosol efficacy for bacterial photokilling in the in vitro ASM lung infection model	in vitro aerosol photokilling efficacy assessment	.pptx, .xlsx, .docx, .pdf	Public	Ν	Consortium	Consortium	
Data generated – External communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository	
Report on in vitro photokilling dose-effect curve (TCC and ASM models) and bacterial CFUs at various time	Deliverable 6.1	.pdf	Confidential	Y	Consortium	Consortium, EC	

Work Package number 6 – Aerosol Irradiation in Lung Tissue Culture & Preclinical in vivo Infection Models							
Task number 2 – Bacterial Photokilling Assessment in a Mouse in vivo Lung Infection Model							
Data collected							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
Existing protocols for aerosol delivery in vitro	To enable in vivo photo-killing experiments with the luminous aerosol as a source	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories	





	To enable in vivo	Websites: .html,	Scientific Literature,		Scientific	websites, web-
Existing protocols for	photo-killing	Documents: .pdf, .doc, .docx, .xls,	data repositories,		journals,	based
aerosol delivery in vivo	experiments with	.xlsx, .ppt, .pptx, .rtf, .txt, .csv,	company websites,	Ν	biomed	repositories, and
(mouse)	the luminous	Images and/or videos: mp4, .jpg,	consortium previous		companies,	consortium
	aerosol as a source	.mov, .png,	know-how		consortium	repositories
Data generated - Experi	mental					
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
Photokilling dose-effect curve in the in vitro TCC (triple cell culture) lung infection model	To characterize the aerosol photokilling efficacy in the in vitro TCC model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Bacterial CFUs at various time points post aerosol exposure in the in vitro TCC lung infection model	To characterize the aerosol photokilling efficacy in the in vitro TCC model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Photokilling dose-effect curve in the ASM (artificial sputum medium) lung infection model	To characterize the aerosol photokilling efficacy in the ASM lung infection model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Bacterial CFUs at various time points post aerosol exposure in the ASM lung infection model	To characterize the aerosol photokilling efficacy in the ASM lung infection model	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Photokilling dose-effect curve in the in vivo acute and chronic lung infection models (mouse) using LED/laser light	To characterize the light killing efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Bacterial CFUs at various time points post LED/laser light exposure in the in vivo acute and chronic	To characterize the light killing efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium





lung infection models (mouse)						
Host survival post LED/laser light exposure in the in vivo acute and chronic lung infection models (mouse)	To characterize the light killing efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Immune responses post LED/laser light exposure in the in vivo acute and chronic lung infection models (mouse)	To characterize the light killing efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium
Photokilling dose-effect curve in the in vivo acute and chronic lung infection models (mouse) using the luminous aerosol	To characterize the aerosol photokilling efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Bacterial CFUs at various time points post aerosol exposure in the in vivo acute and chronic lung infection models (mouse)	To characterize the aerosol photokilling efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium
Host survival post aerosol exposure in the in vivo acute and chronic lung infection models (mouse)	To characterize the aerosol photokilling efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium
Immune responses post aerosol exposure in the in vivo acute and chronic lung infection models (mouse)	To characterize the aerosol photokilling efficacy in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium
Biocompatibility studies of the aerosol treatment in the in vivo acute and chronic lung infection models (mouse)	To assess the aerosol biocompatibility / cytotoxicity in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	Ν	Consortium	Consortium





Data generated – Internal communication							
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository	
Protocol for LED/laser irradiation of the lungs	To define protocols for in vivo irradiation using LED or laser light sources	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Protocol for aerosol delivery for in vivo studies	To define in vivo aerosol delivery protocols	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Aerosol efficacy for bacterial photokilling in the in vitro TCC lung infection model	in vitro aerosol photokilling efficacy assessment	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Aerosol efficacy for bacterial photokilling in the in vitro ASM lung infection model	in vitro aerosol photokilling efficacy assessment	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Aerosol efficacy for bacterial photokilling in the in vivo (mouse) model	in vivo aerosol photokilling efficacy assessment	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Protocol for the evaluation of biocompatibility of the aerosol formulation in vivo	Biocompatibility assessment in vivo	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Biocompatibility of the aerosol in vivo	To assess biocompatibility of the aerosol in vivo	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium	
Data generated – Extern	nal communication						
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository	
Report on (i) in vitro photokilling dose-effect curve (TCC and ASM models) and bacterial CFUs at various time	Deliverable 6.1	.pdf	Confidential	Y	Consortium	Consortium, EC	





eliverable 6.2	.pdf	Confidential	Y	Consortium	Consortium, EC
eli	verable 6.2	verable 6.2 .pdf	verable 6.2 .pdf Confidential	verable 6.2 .pdf Confidential Y	verable 6.2 .pdf Confidential Y Consortium

Work Package number 6 – Aerosol Irradiation in Lung Tissue Culture & Preclinical in vivo Infection Models							
Task number 3 – in vivo (Mouse) Biocompatibility Study of the Aerosol Treatment							
Data collected							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
In vivo (mouse) models to evaluate aerosol biocompatibility	To enable in vivo biocompatibility / cytotoxicity evaluation of the aerosol formulation	Websites: .html, Documents: .pdf, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .rtf, .txt, .csv, Images and/or videos: mp4, .jpg, .mov, .png,	Scientific Literature, data repositories, company websites, consortium previous know-how	N	Scientific journals, biomed companies, consortium	websites, web- based repositories, and consortium repositories	
Data generated - Experi	mental						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
Biocompatibility studies of the aerosol treatment in the in vivo acute and chronic lung infection models (mouse)	To assess the aerosol biocompatibility / cytotoxicity in vivo	.pptx, .xlsx, .docx, .pdf	Laboratory	N	Consortium	Consortium	
Data generated – Interr	nal communication						





Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository
Protocol for the evaluation of biocompatibility of the aerosol formulation in vivo	Biocompatibility assessment in vivo	.pptx, .xlsx, .docx, .pdf	Public	N	Consortium	Consortium
Biocompatibility of the aerosol in vivo	To assess biocompatibility of the aerosol in vivo	.pptx, .xlsx, .docx, .pdf	Public	Ν	Consortium	Consortium
Data generated – Extern	nal communication	•	• •	•		• •
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository
Report on in vivo biocompatibility of the aerosol treatment	Deliverable 6.2	.pdf	Confidential	Y	Consortium	Consortium, EC

Work Package number 7 – Project Coordination & Management								
Task number 1 - Day to day coordination and management								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Data generated - Experi	imental							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Data generated – Internal communication								





Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository	
Correspondence	Coordination	.pptx, .docx, .pdf	Confidential	Ν	Consortium	Consortium	
Minutes of meetings	Coordination	.pptx, .docx, .pdf	Confidential	Ν	Consortium	Consortium	
IPR related documents and patentability analysis of project outcomes.	Coordination	.pptx, .docx, .pdf	Confidential	N	Consortium	Consortium	
Publication-related documents	Coordination	.pptx, .docx, .pdf	Confidential	N	Consortium	Consortium	
Data generated – External communication							
Title	Purpose	Format	Dissemination level	Patentabilit y related	Users	Repository	
Project Handbook	Deliverable 7.1	.pdf	Confidential	N	Consortium	Consortium, EC	

Work Package number 7 – Project Coordination & Management								
Task number 2 - Reporting, financial and legal management								
Data collected								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Data generated - Experimental								
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository		
N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Data generated – Interr	nal communication							
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository		
Correspondence	Partnership management, Grant Agreement and Consortium Agreement implementation and amendment	.pptx, .docx, .pdf	Confidential	N	Consortium	Consortium		





Data generated – Extern	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Project Handbook	Deliverable 7.1	.pdf	Public	Ν	Consortium	Consortium, EC
Technical/Scientific Review Meeting Documents	Deliverable 7.3	.pdf	Confidential	Ν	Consortium	Consortium, EC
Technical/Scientific Review Meeting Documents	Deliverable 7.4	.pdf	Confidential	Ν	Consortium	Consortium, EC
Technical/Scientific Review Meeting Documents	Deliverable 7.5	.pdf	Confidential	Ν	Consortium	Consortium, EC

Work Package number 2	7 – Project Coordin	ation & Management				
Task number 3 - Quality	assurance of all pr	oject outcomes and deliverabl	es, and risk managem	ent		
Data collected						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data generated - Experi	mental					
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data generated – Intern	al communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Draft agenda of the review meeting	Review Meetings	.pptx, .docx, .pdf	Confidential	N	Consortium	Consortium
Presentations to be delivered during the review meeting	Review Meetings	.pptx, .docx, .pdf	Confidential	N	Consortium	Consortium
Data generated – Exterr	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Risk registry	Risk Management	Xlsx.	Confidential	Ν	Consortium	Consortium





Work Package number	7 – Project Coordin	ation & Management				
Task number 4 - Ethical	Surveillance					
Data collected						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
Information related to relevant ethics & regulatory issues	Conduction of research	.pptx, .docx, .pdf	SAB or other experts, competent authorities	Y	N/A	Consortium
Data generated - Experi	mental					
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data generated – Intern	al communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Files and letters of approval from Ethics Boards and other applicable regulatory authorities	Approval required for the conduction of experimental work	.pptx, .docx, .pdf	Confidential	Y	Consortium	Consortium
Data generated – Extern	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Emails and communications	Liaison with the EC and other stakeholders	.pptx, .docx, .pdf	Confidential	Ν	Consortium, EC, other stakeholders	Consortium





Work Package number 8	8 – Dissemination a	nd exploitation				
Task number 1 – Dissem	nination Plan					
Data collected						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data generated - Experimental						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data generated – Intern	al communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Emails and communications	Development and implementation of the Plan for the Use and Dissemination of the Project Results	.pptx, .docx, .pdf	Confidential	N	Consortium, EC, other stakeholders	Consortium
Data generated – Exterr	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Plan for the Use and Dissemination of the Proiect Results	Deliverable 8.2 and 8.3	.pptx, .docx, .pdf	Confidential	N	Consortium	Consortium

Work Package number	8 – Dissemination a	nd exploitation					
Task number 2 – Dissemination Tools							
Data collected							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
Public literature and resources related to the project scope	Generation of communication and dissemination	.html, .docx, .pdf	Publications repositories, reference	Y	N/A	Consortium, websites,	





			1			
	information to be		sources (EC, health			project social
	published on the		authorities,)			media
	project website and					
	social media					
Determined Frank						
Data generated - Experi	mental		-	1	1	1
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Data generated - Interr	al communication	· ·	,	,	,	,
Data generated intern			1			
Title	Purpose	Format	Dissemination level	Patentability	Users	Repository
				related		,
- ·· ·	Development and				Consortium,	
Emails and	implementation of	.pptxdocxpdf	Confidential	N	FC. other	Consortium
communications	the tools				stakeholders	
					Stakenolders	
Data generated – Exteri	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
	Communication					
	and dissemination				Consortium	
Social media content and	of project related	nnty docy ndf	Public	N	EC other	Consortium
communication platforms			FUDIC			Consortium
	non-confidential				stakeholders	
	content					

Work Package number 8	8 – Dissemination a	nd exploitation					
Task number 3 – Dissemination Actions							
Data collected							
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Data generated - Experi	mental						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Data generated – Intern	al communication						





Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Emails and communications	Development and implementation of the actions	.pptx, .docx, .pdf	Confidential	N	Consortium, EC	Consortium
Data generated – Extern	nal communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository
Actions related materials	Liaison with the EC and other audiences for the implementation of the actions, action communication	.pptx, .docx, .pdf	Public	N	Consortium, EC, other stakeholders	Consortium

Work Package number	8 – Dissemination a	nd exploitation				
Task number 4 – Exploit	ation and long-terr	m sustainability of results				
Data collected						
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
Patentability analysis related data	Patentability analysis	.pptx, .docx, .pdf	Available public sources	Y	N/A	Patent Offices and public repositories
Data generated - Experi	mental					
Title	Purpose	Format	Origin	Re-use of existing data	Data owner (if relevant)	Repository
All data generated in previous WPs that is relevant to complete the patent application	Protection of project results	.pptx, .docx, .pdf	Laboratory	Y	Corresponding partners	Consortium and partners repositories
Data generated – Intern	al communication					
Title	Purpose	Format	Dissemination level	Patentability related	Users	Repository





IPR related documents and patentability analysis of project outcomes.	Coordination	.pptx, .docx, .pdf	Confidential	Y	Consortium	Consortium
Data generated – Extern	nal communication					
				Patentability		
litle	Purpose	Format	Dissemination level	related	Users	Repository

