

FWO DMP Template - Flemish Standard Data Management Plan

Version KU Leuven

Project supervisors (from application round 2018 onwards) and fellows (from application round 2020 onwards) will, upon being awarded their project or fellowship, be invited to develop their answers to the data management related questions into a DMP. The FWO expects a **completed DMP no later than 6 months after the official start date** of the project or fellowship. The DMP should not be submitted to FWO but to the research co-ordination office of the host institute; FWO may request the DMP in a random check.

At the end of the project, the **final version of the DMP** has to be added to the final report of the project; this should be submitted to FWO by the supervisor-spokesperson through FWO's e-portal. This DMP may of course have been updated since its first version. The DMP is an element in the final evaluation of the project by the relevant expert panel. Both the DMP submitted within the first 6 months after the start date and the final DMP may use this template.

The DMP template used by the Research Foundation Flanders (FWO) corresponds with the Flemish Standard Data Management Plan. This Flemish Standard DMP was developed by the Flemish Research Data Network (FRDN) Task Force DMP which comprises representatives of all Flemish funders and research institutions. This is a standardized DMP template based on the previous FWO template that contains the core requirements for data management planning. To increase understanding and facilitate completion of the DMP, a standardized **glossary** of definitions and abbreviations is available via the following [link](#).

1. General Project Information	
Name Grant Holder & ORCID	My Luong Vuong, 0000-0001-9203-6745
Contributor name(s) (+ ORCID) & roles	
Project number ¹ & title	1SH6A24N, Joint pharmacometrics modeling of antimicrobial exposure, biomarkers, and clinical outcome assessments to improve the in silico exploration of dose optimization strategies in critically ill patients
Funder(s) GrantID ²	
Affiliation(s)	<input checked="" type="checkbox"/> KU Leuven <input type="checkbox"/> Universiteit Antwerpen <input type="checkbox"/> Universiteit Gent <input type="checkbox"/> Universiteit Hasselt <input type="checkbox"/> Vrije Universiteit Brussel <input type="checkbox"/> Other: ROR identifier KU Leuven: 05f950310

¹ “Project number” refers to the institutional project number. This question is optional. Applicants can only provide one project number.

² Funder(s) GrantID refers to the number of the DMP at the funder(s), here one can specify multiple GrantIDs if multiple funding sources were used.

Please provide a short project description	<p>Dosage regimens of antimicrobial drugs predominantly stem from in vitro and animal studies. Critically ill patients display altered, highly variable drug concentration-time profiles in their bodies (i.e., pharmacokinetics; PK). Therefore, therapeutic drug monitoring (TDM) has been used to individualize dosing in this vulnerable patient group. TDM guides dosing based on drug concentration measurements, thereby maximizing the chance to meet desired exposure targets. However, the successful attainment of an exposure target is not necessarily reflected in a favorable clinical outcome. Despite the growing interest in TDM in the last decade, the quality of evidence remains low. We believe that dose optimization practices will only reach their optimal success when combining TDM with the monitoring of biomarkers and clinical markers of surrogate response such as disease activity scores (i.e., pharmacodynamics; PD). Therefore, we will develop state-of-the-art pharmacometrics models to quantitatively describe, understand, and predict the relationship between antimicrobial drug dose, drug exposure, biomarker/surrogate responses, and clinically relevant endpoints. We propose a disease/PD-oriented modeling and simulation approach based on real-world data of critically ill patients on antimicrobial treatments. We hypothesize that our population PKPD models will facilitate more efficient drug dosing, including their application in PKPD model-informed precision dosing.</p>
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2. Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data ³.

Dataset Name	Description	New or Reused	Digital or Physical	ONLY FOR DIGITAL DATA	ONLY FOR DIGITAL DATA	ONLY FOR DIGITAL DATA	ONLY FOR PHYSICAL DATA
				Digital Data Type	Digital Data Format	Digital Data Volume (MB, GB, TB)	Physical Volume
M@tric	Big clinical outcome data in 3 ICUs.	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	NA	<input type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input checked="" type="checkbox"/> NA	
Meropenem_ECMO_ICU	Meropenem in ICU patients with/without ECMO	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	.xlsx	<input checked="" type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	
Ceftriaxone_CAP_ICU	Meropenem in ICU patients with severe community-	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical	.xlsx	<input checked="" type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB	

³ Add rows for each dataset you want to describe.

	acquired pneumonia			<input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:		<input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	
Vancomycin_Hospital_Wide	Vancomycin retrospective study, in both ICU & non-ICU patients	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	NA	<input type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input checked="" type="checkbox"/> NA	
Amphotericin B_Hema_ICU	Liposomal Amphotericin B (L-AmB) in ICU and Hematology patients	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	.xls	<input checked="" type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	
Fluconazole_ICU_IPDMA	Fluconazole in ICU individual patient data meta-analysis	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	.csv	<input checked="" type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	
Posaconazole_ICU_FLU	Posaconazole in ICU patients with influenza	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound	.xlsx	<input checked="" type="checkbox"/> < 1 GB	

		data		<input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:		<input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	
Anidulafungin_ALB_ICU	Anidulafungin in ICU patients with Capillary Leak and Hypoalbuminemia	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	.xlsx	<input checked="" type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	
Caspofungin_ALB_ICU	Caspofungin in ICU patients with Capillary Leak and Hypoalbuminemia	<input type="checkbox"/> Generate new data <input checked="" type="checkbox"/> Reuse existing data	<input checked="" type="checkbox"/> Digital <input type="checkbox"/> Physical	<input type="checkbox"/> Audiovisual <input type="checkbox"/> Images <input type="checkbox"/> Sound <input checked="" type="checkbox"/> Numerical <input checked="" type="checkbox"/> Textual <input type="checkbox"/> Model <input type="checkbox"/> Software <input type="checkbox"/> Other:	.xls	<input checked="" type="checkbox"/> < 1 GB <input type="checkbox"/> < 100 GB <input type="checkbox"/> < 1 TB <input type="checkbox"/> < 5 TB <input type="checkbox"/> > 5 TB <input type="checkbox"/> NA	

GUIDANCE:

The data description forms the basis of your entire DMP, so make sure it is detailed and complete. It includes digital and physical data and encompasses the whole spectrum ranging from raw data to processed and analysed data including analysis scripts and code. Physical data are all materials that need proper management because they are valuable, difficult to replace and/or ethical issues are associated. Materials that are not considered data in an RDM context include your own manuscripts, theses and presentations; documentation is an integral part of your datasets and should be described under documentation/metadata.

[RDM Guidance on data](#)

<p>If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type.</p>	<ul style="list-style-type: none"> • M@tric: https://www.matric.be/ • Amikacin_ED: https://doi.org/10.1016/j.ijantimicag.2017.11.009 • Meropenem_ECMO_ICU: https://doi.org/10.3390/microorganisms9061310 • Ceftriaxone_CAP_ICU: https://doi.org/10.3390/antibiotics10050557 • Vancomycin_Hospital_Wide: https://doi.org/10.3390/pharmaceutics14071459 • AmphotericinB_Hema_ICU: https://doi.org/10.1093/mmy/myac074 • Fluconazole_ICU_IPDMA: https://doi.org/10.3390/microorganisms9102068 • Posaconazole_ICU_FLU: DOI: 10.1111/myc.13446 • Anidulafungin_ALB_ICU: the original study results have not yet been published • Caspofungin_ALB_ICU: the original study results have not yet been published
<p>Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, refer to specific datasets or data types when appropriate and provide the relevant ethical approval number.</p>	<p><input checked="" type="checkbox"/> Yes, human subject data; provide SMEC or EC approval number:</p> <ul style="list-style-type: none"> • M@tric: S61364 • Amikacin_ED: B32220109909 • Meropenem_ECMO_ICU: S54511 • Ceftriaxone_CAP_ICU: S54509 • Vancomycin_Hospital_Wide: S65213 • AmphotericinB_Hema_ICU: S59273 • Fluconazole_ICU_IPDMA: S62242 • Posaconazole_ICU_FLU: S60744 • Anidulafungin_ALB_ICU: S54510 • Caspofungin_ALB_ICU: S54510 <p><input type="checkbox"/> Yes, animal data; provide ECD reference number:</p> <p><input type="checkbox"/> Yes, dual use; provide approval number:</p> <p><input type="checkbox"/> No</p> <p>Additional information:</p>

<p>Will you process personal data⁴? If so, please refer to specific datasets or data types when appropriate and provide the KU Leuven or UZ Leuven privacy register number (G or S number).</p>	<p><input checked="" type="checkbox"/> Yes (provide PRET G-number or EC S-number below)</p> <ul style="list-style-type: none"> • M@tric: S61364 • Amikacin_ED: B32220109909 • Meropenem_ECMO_ICU: S54511 • Ceftriaxone_CAP_ICU: S54509 • Vancomycin_Hospital_Wide: S65213 • AmphotericinB_Hema_ICU: S59273 • Fluconazole_ICU_IPDMA: S62242 • Posaconazole_ICU_FLU: S60744 • Anidulafungin_ALB_ICU: S54510 • Caspofungin_ALB_ICU: S54510 <p><input type="checkbox"/> No</p> <p>Additional information:</p>
<p>Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, ...)? If so, please comment per dataset or data type where appropriate.</p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p> <p>If yes, please comment:</p> <p>The developed models from all the datasets provide a reliable, rational predictive tool to personalize antimicrobial dosing for patients in the intensive care unit. Our personalized dosing solution can be commercialized by pharma companies, companies providing diagnostic tests, and providers of electronic health records and patient data monitoring systems.</p>

⁴ See Glossary Flemish Standard Data Management Plan

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material/Data transfer agreements, research collaboration agreements)? If so, please explain to what data they relate and what restrictions are in place.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:
Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain to what data they relate and which restrictions will be asserted.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please explain:

3. Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable , for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, Codebook.tsv etc. where this information is recorded). RDM guidance on documentation and metadata.	<ol style="list-style-type: none"> 1. Regarding extracted patient information, an explanation for each observed patient information (demographics, lab measurements, disease characteristics etc) will be provided. A ReadMe file of the data structure will be written. 2. Regarding the model files, the annotation will be provided following each line of the model code to explain the meaning and function of the code. A ReadMe file will be provided to illustrate the dataset used to build the model, the object (drug concentration/effect) that is being modeled, and the problem that the model aims to solve. 3. Regarding the model-derived simulation files, a ReadMe file will be provided to illustrate the model used to simulate the files as well as the information presented in the simulation file. 4. Regarding the generated R code for data individualization, the annotation will be provided following each line of the R code to explain the meaning and function of the code.
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<p>Will a metadata standard be used to make it easier to find and reuse the data?</p> <p>If so, please specify which metadata standard will be used. If not, please specify which metadata will be created to make the data easier to find and reuse.</p> <p><i>REPOSITORIES COULD ASK TO DELIVER METADATA IN A CERTAIN FORMAT, WITH SPECIFIED ONTOLOGIES AND VOCABULARIES, I.E. STANDARD LISTS WITH UNIQUE IDENTIFIERS.</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, please specify (where appropriate per dataset or data type) which metadata standard will be used:</p> <ul style="list-style-type: none"> • Metadata will be generated following the Dublin Core standard (https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#section-1). <p>If no, please specify (where appropriate per dataset or data type) which metadata will be created:</p>
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4. Data Storage & Back-up during the Research Project	
<p>Where will the data be stored?</p> <p><i>Consult the interactive KU Leuven storage guide to find the most suitable storage solution for your data.</i></p>	<p><input type="checkbox"/> Shared network drive (J-drive) <input type="checkbox"/> Personal network drive (I-drive) <input checked="" type="checkbox"/> OneDrive (KU Leuven) <input type="checkbox"/> Sharepoint online <input type="checkbox"/> Sharepoint on-premis <input type="checkbox"/> Large Volume Storage <input type="checkbox"/> Digital Vault <input type="checkbox"/> Other:</p>
<p>How will the data be backed up?</p> <p><i>WHAT STORAGE AND BACKUP PROCEDURES WILL BE IN PLACE TO PREVENT DATA LOSS?</i></p>	<p><input checked="" type="checkbox"/> Standard back-up provided by KU Leuven ICTS for my storage solution <input type="checkbox"/> Personal back-ups I make (specify) <input type="checkbox"/> Other (specify)</p>

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely. If no or insufficient storage or backup capacities are available, then explain how this will be taken care of.	<input checked="" type="checkbox"/> Yes KU Leuven provides free storage and backup capacity of 2 TB on OneDrive for Business for this project. <input type="checkbox"/> No If no, please specify:
How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons? <i>CLEARLY DESCRIBE THE MEASURES (IN TERMS OF PHYSICAL SECURITY, NETWORK SECURITY, AND SECURITY OF COMPUTER SYSTEMS AND FILES) THAT WILL BE TAKEN TO ENSURE THAT STORED AND TRANSFERRED DATA ARE SAFE.</i> Guidance on security for research data	Sensitive data will never be allowed to be carried on unprotected personal devices. We ensure that the processing of personal data will be fully compliant with the European Regulation 2016/679 (the General Data Protection Regulation, or "GDPR", in force from 25 May 2018), which covers the protection of personal data.
What are the expected costs for data storage and backup during the research project? How will these costs be covered?	There is no cost expected for the data storage. KU Leuven offers free OneDrive for Business online storage of 2 TB for every employee.

5. Data Preservation after the end of the Research Project

<p>Which data will be retained for at least five years (or longer, in agreement with other retention policies that are applicable) after the end of the project? In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).</p> <p><u>Guidance on data preservation</u></p>	<p><input checked="" type="checkbox"/> All data will be preserved for 10 years according to KU Leuven RDM policy</p> <p><input type="checkbox"/> All data will be preserved for 25 years according to CTC recommendations for clinical trials with medicinal products for human use and for clinical experiments on humans</p> <p><input type="checkbox"/> Certain data cannot be kept for 10 years (explain)</p>
<p>Where will these data be archived (stored and curated for the long-term)?</p> <p><i><u>Dedicated data repositories</u> are often the best place to preserve your data. Data not suitable for preservation in a repository can be stored using a KU Leuven storage solution, consult the <u>interactive KU Leuven storage guide</u>.</i></p>	<p><input checked="" type="checkbox"/> KU Leuven RDR</p> <p><input type="checkbox"/> Large Volume Storage (longterm for large volumes)</p> <p><input type="checkbox"/> Shared network drive (J-drive)</p> <p><input type="checkbox"/> Other (specify):</p>
<p>What are the expected costs for data preservation during the expected retention period? How will these costs be covered?</p>	<p>There is no cost expected for data preservation during the expected retention period. KU Leuven offers free online storage of 2 TB on OneDrive for Business for every employee. All relevant data will be stored under the OneDrive for Business account of the promoter (Prof. Erwin Dreesen)</p>

6. Data Sharing and Reuse

<p>Will the data (or part of the data) be made available for reuse after/during the project? Please explain per dataset or data type which data will be made available.</p> <p><i>NOTE THAT 'AVAILABLE' DOES NOT NECESSARILY MEAN THAT THE DATA SET BECOMES OPENLY AVAILABLE, CONDITIONS FOR ACCESS AND USE MAY APPLY. AVAILABILITY IN THIS QUESTION THUS ENTAILS BOTH OPEN & RESTRICTED ACCESS. FOR MORE INFORMATION:</i></p> <p>https://wiki.surfnet.nl/display/standards/info-eu-repo/#infoeu-repo-accessrights</p>	<p><input checked="" type="checkbox"/> Yes, as open data Control streams, simulated datasets, and output files will be made publicly available either on a discipline-specific model repository or in the supplementary material of an article upon publication.</p> <p><input type="checkbox"/> Yes, as embargoed data (temporary restriction)</p> <p><input checked="" type="checkbox"/> Yes, as restricted data (upon approval, or institutional access only)</p> <p>The developed pharmacometrics models & source data.</p> <p><input type="checkbox"/> No (closed access)</p> <p><input type="checkbox"/> Other, please specify:</p>
<p>If access is restricted, please specify who will be able to access the data and under what conditions.</p>	<p>The PhD student My-Luong Vuong and the promotor of this research project (Prof. Dreesen) will be the responsible person for data preservation during and at least 5 years after the end of the research. Internal access to those data can be granted by formal written consent provided by Prof. Erwin Dreesen. External access to those data requires a formal data transfer agreement with KU Leuven.</p>
<p>Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)? Please explain per dataset or data type where appropriate.</p>	<p><input type="checkbox"/> Yes, privacy aspects</p> <p><input type="checkbox"/> Yes, intellectual property rights</p> <p><input type="checkbox"/> Yes, ethical aspects</p> <p><input type="checkbox"/> Yes, aspects of dual use</p> <p><input type="checkbox"/> Yes, other</p> <p><input checked="" type="checkbox"/> No</p> <p>If yes, please specify:</p>
<p>Where will the data be made available? If already known, please provide a repository per dataset or data type.</p>	<p><input checked="" type="checkbox"/> KU Leuven RDR</p> <p><input type="checkbox"/> Other data repository (specify)</p> <p><input type="checkbox"/> Other (specify)</p>

When will the data be made available?	<input checked="" type="checkbox"/> Upon publication of research results <input type="checkbox"/> Specific date (specify) <input type="checkbox"/> Other (specify)
Which data usage licenses are you going to provide? If none, please explain why. <i>A DATA USAGE LICENSE INDICATES WHETHER THE DATA CAN BE REUSED OR NOT AND UNDER WHAT CONDITIONS. IF NO LICENSE IS GRANTED, THE DATA ARE IN A GREY ZONE AND CANNOT BE LEGALLY REUSED. DO NOTE THAT YOU MAY ONLY RELEASE DATA UNDER A LICENCE CHOSEN BY YOURSELF IF IT DOES NOT ALREADY FALL UNDER ANOTHER LICENCE THAT MIGHT PROHIBIT THAT.</i> Check the RDR guidance on licences for data and software sources code or consult the License selector tool to help you choose.	<input type="checkbox"/> CC-BY 4.0 (data) <input checked="" type="checkbox"/> Data Transfer Agreement (restricted data) <input type="checkbox"/> MIT licence (code) <input type="checkbox"/> GNU GPL-3.0 (code) <input type="checkbox"/> Other (specify)
Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, please provide it here. <i>INDICATE WHETHER YOU INTEND TO ADD A PERSISTENT AND UNIQUE IDENTIFIER IN ORDER TO IDENTIFY AND RETRIEVE THE DATA.</i>	<input checked="" type="checkbox"/> Yes, a PID will be added upon deposit in a data repository <input type="checkbox"/> My dataset already has a PID <input type="checkbox"/> No
What are the expected costs for data sharing? How will these costs be covered?	There is no cost for sharing the data within KU Leuven. The cost of sharing data with external parties needs to be covered by the external parties.

7. Responsibilities

Who will manage data documentation and metadata during the research project?	The PhD student My-Luong Vuong himself.
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Who will manage data storage and backup during the research project?	The PhD student My-Luong Vuong himself.
Who will manage data preservation and sharing?	The promotor of this research project (prof. Dreesen).
Who will update and implement this DMP?	The PhD student My-Luong Vuong himself.