DATA MANAGEMENT PLAN (DMP)

Project number: G046824N

	1. General Project Information
Name Grant Holder & ORCID	Lucía Chávez-Gutiérrez & 0000-0002-8239-559X
Contributor name(s) (+ ORCID) & roles	Prof. Martin. Zacharias (0000-0001-5163-2663) & co-applicant, Prof. Peter Verwilst (0000-0002-4673-2050) & partial collaborator, Prof. Rouslan Efremov (0000-0001-7516-8658) & close collaborator, Dr. Joao Carvalho & collaborator
Project number 1 & title	G046824N, Structure-based design of stabilizers of γ-secretase-APP interactions for Alzheimer's disease
Funder(s) GrantID ²	G008023N
Affiliation(s)	KU Leuven
	VIB – KU Leuven Center for Brain and Disease Research
	Laboratory of Proteolytic Mechanisms mediating Neurodegeneration
Please provide a short project description	GSEC modulators (GSMs) are small compounds that enhance GSEC processivity, leading to generation of shorter Aβ peptides, while preserving the overall proteolysis. GSMs spare essential GSEC-mediated signalling cascades. Specifically, they increase the efficiency of the sequential Aβ processing along one or both GSEC product lines by stabilizing GSEC-Aβn interactions10 and preventing the premature dissociation and release of longer Aβs13. As a result, GSMs enhance the cleavage of longer and toxic Aβ42 and Aβ43 into shorter Aβ37 and Aβ38 peptides. These shorter Aβs have been shown to be non-toxic, or even attenuate the Aβ toxicity in vivo in the Drosophila eye. Of note, recent clinical studies have linked increased CSF Aβ38 levels to slower cognitive decline in AD patients. These findings collectively indicate that the mechanism of action of GSMs is inherently safe and support the notion that GSM-based therapy might be beneficial, at least for AD prevention. we propose that generating solid structural and mechanistic understanding of GSM-GSECAPP (drug-target) interactions will facilitate structure-based discovery of chemically diverse scaffolds securing GSEC-APP complexes and thereby lowering production of longer and toxic Aβ peptides. These novel scaffolds can then serve as valuable lead compounds in the development of next-generation GSMs (acting as GSEC stabilizers)selectively and potently targeting APP processing.

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.

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.

									ONLY FOR PHYSICA	L DATA
Dataset Name		Description	on			New or I	Reused	Digital or Physical	Physical Volu	ıme
Experimental da	taset 1 -	Bacteria s	trains, insect cell lines, m	ammalian cell	lines		rate new data	☐ Digital	200 ml	
Cell lines							e existing data	□ Physical □		
Experimental da	taset 2		or protein expression in ba	acteria, mamn	nalian		rate new data	☐ Digital	5 ml	
-Vectors		and insec	t cells			☐ Reuse	e existing data	□ Physical		
Experimental da	taset 3-	Human pr	oteins (proteases, their s	ubstrates, new	/ly	□ Gene	rate new data	☐ Digital	5 L	
Recombinant pro	oteins and	discovere	d interactors) produced ir	n insect or hun	nan	⊠ Reuse	e existing data	⊠ Physical		
compounds		cell lines,	nanobodies expressed in	bacteria, chen	nical					
		inhibitors	and modulators of protea	ases						
					ONLY FO	OR DIGITAL	ONLY FOR DIGITAL D	ATA		ONLY FOR DIGITAL
					DATA					DATA
Dataset Name	Descript	on	New or Reused	Digital or	Digita	ıl Data	Digital Data Fo	ormat		Digital Data
				Physical	Type					Volume (MB,
										GB, TB)
Experimental	Nucleoti	de	⊠ Generate new data	□ Digital	☐ Au	diovisual	- Raw sequenc	e data trace (.:	ab1)	□ < 1 GB
dataset 4	sequenci	ng data	☐ Reuse existing data	☐ Physical	☐ Im	ages	- Text-based fo	ormat (.fasta/.f	a) and	⊠ < 100 GB
-Canonical data	,	J		,	☐ So	_	accompanying	•	•	□ < 1 TB
					│ □ Nu	ımerical	- Genbank for	, ,	•	□ < 5 TB
					⊠ Te	xtual	- Sequence ali		.sam), (.bam)	□ > 5 TB
					□ Mo			,	// (· · /	□NA
						ftware				
					50					

³ Add rows for each dataset you want to describe.

ONLY FOR PHYSICAL DATA

				☐ Other:		
Experimental	Mass spectrometry	☑ Generate new data	□ Digital	☐ Audiovisual	Raw data (.raw)	□ < 1 GB
dataset 5 - Mass	datasets	☐ Reuse existing data	☐ Physical	☐ Images		□ < 100 GB
spectrometry				☐ Sound		□ < 1 TB
data				☐ Numerical		□ < 5 TB
				☐ Textual		⊠ > 5 TB
				☐ Model		□ NA
				⊠ Other:		
Experimental	Microscopy	☑ Generate new data	⊠ Digital	☐ Audiovisual	- Digital images in raster formats:	□ < 1 GB
dataset 6	pictures, gel scans,	☐ Reuse existing data	☐ Physical		uncompressed TIFF (.tif/.tiff), JPEG (.jpg),	□ < 100 GB
-Digital images	graphs,			☐ Sound	Adobe Portable Document Format (.pdf),	□ < 1 TB
	illustrations,				bitmap (.bmp), .gif, .lif (Leica), .czi	⊠ < 5 TB
	figures				(Zeiss), .gel (ImageQuant)	□ > 5 TB
				⊠ Model	- Digital images in vector formats: scalable	□ NA
					vector graphics (.svg), encapsulated	
				☐ Other:	postscript (.eps), Scalable Vector Graphics	
					(.svg), Adobe Illustrator (.ai)	
Experimental	Cryo – EM datasets	☐ Generate new data	⊠ Digital	Audiovisual	Uncompressed TIFF (.tif/.tiff), Images	☐ < 1 GB
dataset 7 – Cryo	and illustrations	□ Reuse existing data	☐ Physical		stacks (.mrc), 3D volumes (.mrc), Atomic	☐ < 100 GB
- EM				Sound	coordinates (.pdb), Text files (.star)	□ < 1 TB
				⊠ Numerical		□ < 5 TB
				⊠ Textual		⊠ > 5 TB
				⊠ Model		□NA
				☐ Software		
				☐ Other:		
Derived and	Documentation	☐ Generate new data	⊠ Digital	☐ Audiovisual	-Text files: Rich Text Format (.rtf), MS	□ < 1 GB
compiled	generated by the	☐ Reuse existing data	☐ Physical	☐ Images	Word (.doc/.docx), Adobe Portable	⊠ < 100 GB
dataset 1 –	research and			Sound	Document Format (.pdf)	□ < 1 TB
Research	technical staff or			⊠ Numerical	-Quantitative tabular data: comma-	□ < 5 TB
documentation	collected from				separated value files (.csv), MS Excel	□ > 5 TB

	online sources and from collaborators, including ethical approval documents, laboratory notes and protocols.			☐ Model ☐ Software ☐ Other:	(.xls/.xlsx), MS Access (.mdb/.accdb)	□NA
Derived and compiled dataset 2 - Manuscripts	Manuscripts resulting from the project	☑ Generate new data☐ Reuse existing data	⊠ Digital □ Physical	 ☐ Audiovisual ☐ Images ☐ Sound ☑ Numerical ☑ Textual ☐ Model ☐ Software ☐ Other: 	-Text files: Rich Text Format (.rtf), MS Word (.doc/.docx), Adobe Portable Document Format (.pdf)	☐ < 1 GB
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 described under documentation/metadata. RDM Guidance on data						
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.		such as bacteri part of the Exp We will also re (https://doi.org https://doi.org	a strains, mam erimental data use part of the g/10.1038/s41/10.1101/2023	nmalian cell lines a aset 1, 2, 3 as desc e digital datasets t 380-022-01518-6, 3.09.09.556900) a	t were generated in our laboratory in previous and vectors for expression. These datasets are ribed above. hat were generated in our laboratory in previous, https://doi.org/10.15252/embj.2022111084 well as published such as Cryo – EM structudataset 7 and described above.	e included as ious projects

Are there any ethical issues concerning the	☐ Yes, human subject data; provide SMEC or EC approval number:
creation and/or use of the data	☐ Yes, animal data; provide ECD reference number:
(e.g. experiments on humans or animals, dual	☐ Yes, dual use; provide approval number:
use)? If so, refer to specific datasets or data	⊠ No
types when appropriate and provide the	Additional information:
relevant ethical approval number.	
Will you process personal data ⁴ ? If so, please	☐ Yes (provide PRET G-number or EC S-number below)
refer to specific datasets or data types when	⊠ No
appropriate and provide the KU Leuven or UZ	Additional information:
Leuven privacy register number (G or S number).	
Does your work have potential for commercial	⊠ Yes
valorization (e.g. tech transfer, for example spin-	□ No
offs, commercial exploitation)?	If yes, please comment:
If so, please comment per dataset or data type	We do not exclude that the proposed work could result in research data with potential for tech transfer and
where appropriate.	valorization. Ownership of the data generated belongs to KU Leuven and VIB in accordance with the
	framework agreement of both institutes. VIB has a policy to actively monitor research data for such
	potential. If there is substantial potential, the invention will be thoroughly assessed, and in a number of
	cases the invention will be IP protected (mostly patent protection or copyright protection). As such the IP
	protection does not withhold the research data from being made public. In the case a decision is taken to file
	a patent application it will be planned so that publications need not be delayed.
Do existing 3rd party agreements restrict	☐ Yes
exploitation or dissemination of the data you	⊠ No
(re)use (e.g. Material/Data transfer agreements,	If yes, please explain:
research collaboration agreements)?	No third-party agreement restricts dissemination or exploitation of the data or strains generated from this
If so, please explain to what data they relate and	project. In particular, existing agreements between VIB and KU Leuven do not restrict publication of data.
what restrictions are in place.	

⁴ See Glossary Flemish Standard Data Management Plan

Are there any other legal issues, such as	☐ Yes
intellectual property rights and ownership, to be	⊠ No
managed related to the data you (re)use?	If yes, please explain:
If so, please explain to what data they relate and	
which restrictions will be asserted.	

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.

Data will be generated following standardized protocols. Clear and detailed descriptions of these protocols will be stored in our lab protocol database, and published along with the results. Metadata will be documented by the research and technical staff at the time of data collection and analysis, by taking careful notes in the electronic laboratory notebook (e-lab journal) and/or in hard copy lab notebooks that refer to specific datasets.

Cryotubes of biological samples (bacterial strains, mammalian cell lines) stored at -196°C will be labelled with a reference number that links to an entry or database.

All datasets will be accompanied by a README.txt file containing all the associated metadata (see more details below).

Will a metadata standard be used to make it easier to **find and reuse the data**?

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.

REPOSITORIES COULD ASK TO DELIVER METADATA IN A CERTAIN FORMAT, WITH SPECIFIED ONTOLOGIES AND VOCABULARIES, I.E. STANDARD LISTS WITH UNIQUE IDENTIFIERS.

 \boxtimes Yes

☐ No

If yes, please specify (where appropriate per dataset or data type) which metadata standard will be used:

While specific data types might require particular metadata, as a general rule the metadata are based on a generalized metadata schema such as Dublin Core or DataCite, including the following elements:

- Title: free text
- Creator: Last name, first name, organization
- Date and time reference
- Subject: Choice of keywords and classifications
- Description: Text explaining the content of the data set and other contextual information needed for the correct interpretation of the data, the software(s) (including version number) used to produce and to read the data, the purpose of the experiment, etc.
- Format: Details of the file format,
- Resource Type: data set, image, audio, etc.
- Identifier: DOI (when applicable)
- •Access rights: closed access, embargoed access, restricted access, open access.

For specific datasets, additional metadata will be associated with the data file as appropriate. Mass spectrometry metadata will be generated at the VIB Proteomics Core facility. A copy of the results (data) will be stored at the VIB-KU Leuven Proteolytic Mechanisms mediating Neurodegeneration laboratory. Cryo – EM data will be generated at the CryoEM facility BECM (VIB – VUB, Brussels) and stored and analyzed there on a server owned by the applicant (Chávez-Gutiérrez) laboratory. Additionally, a back-up copy of the data will be stored on datatape and maintained for 10 years.

4. Data Storage & Back-up during the Research Project
M Charact naturally drive / I drive)
Shared network drive (J-drive)
Personal network drive (I-drive)
☐ OneDrive (KU Leuven)
☐ Sharepoint online
☐ Sharepoint on-premis
□ Large Volume Storage □ Storag
☐ Digital Vault
⊠ Other:
Digital files are stored on KU Leuven servers.
Other types of data are stored in different forms as follows;
 Vectors: Vectors will be preserved in a form of purified DNA (in -20°C freezer).
- Cell lines: Cryo preserved cell lines will be stored locally in the laboratory in liquid nitrogen tank. At
least two vials per cell line derived from independent freezings will be stored.
- Other biological and chemical samples: storage at 4°C and/or as frozen samples as appropriate.
 Nucleic acid and protein sequences: All nucleic acid and protein sequences generated during the
project will be stored on KU Leuven servers.
 Proteomics data: Proteomics data generated during the project will be stored on KU Leuven
servers.
- All other digital data (research documentation and manuscripts) will be stored on KUL servers.
Standard back-up provided by KU Leuven ICTS for my storage solution
☐ Personal back-ups I make (specify)
☐ Other (specify)
KU Leuven drives are backed-up according to the following scheme:
- Data stored on the "L-drive" is backed up daily using snapshot technology, where all incremental changes in
respect of the previous version are kept online; the last 14 backups are kept.
- Data stored on the "J-drive" is backed up hourly, daily (every day at midnight) and weekly (at midnight
between Saturday and Sunday); in each case the last 6 backups are kept.

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.	 Yes No There is sufficient storage and back-up capacity on all KU Leuven servers: - The "L-drive" is an easily scalable system, built from General Parallel File System (GPFS) cluster with NetApp eseries storage systems, and a CTDB samba cluster in the front-end. - The "J-drive" is based on a cluster of NetApp FAS8040 controlers with an Ontap 9.1P9 operating system.
How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons? 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. Guidance on security for research data	Security of digital datasets in KU Leuven drives: Both the "L-drive" and "J-drive" servers are accessible only by laboratory members, and are mirrored in the second ICTS datacenter for business continuity and disaster recovery so that a copy of the data can be recovered within an hour. Security of the physical datasets that are stored in the laboratory unit are ensured by allowing access only to the laboratory members through KU Leuven ID card access.
What are the expected costs for data storage and backup during the research project? How will these costs be covered?	The total cost of data storage during the project is projected to be max. 15 000 € per year. This includes the following costs: The costs of digital data storage are as follows: 174 € /TB per year for the "L-drive" and 519 € /TB per year for the "J-drive" and 17.7 €/TB per year for data tape storage. These costs will be covered by the VIB dotation budget assigned to the laboratory of Lucía Chávez-Gutiérrez.

5. Data Preservation after the end of the Research Project

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). Guidance on data preservation	 ✓ All data will be preserved for 10 years according to KU Leuven RDM policy ☐ 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 ☐ Certain data cannot be kept for 10 years (explain)
Where will these data be archived (stored and	☐ KU Leuven RDR
curated for the long-term)?	☐ KO Leaven KBK ☐ ☐ Large Volume Storage (longterm for large volumes)
curated for the long-term):	☐ Shared network drive (J-drive)
<u>Dedicated data repositories</u> are often the best place	☑ Shared network drive (3-drive) ☑ Other (specifiy):
to preserve your data. Data not suitable for	As a general rule, datasets will be made openly accessible, whenever possible via existing platforms that
preservation in a repository can be stored using a KU	support FAIR data sharing (www.fairsharing.org), at the latest at the time of publication.
Leuven storage solution, consult the interactive KU	For all other datasets, long term storage will be ensured as follows:
Leuven storage guide.	- Digital datasets: files will be stored on the "L-drive".
	- Vectors: vectors are preserved in the form of purified DNA (in -20°C freezer).
	- Cell lines: cell lines are stored locally in the laboratory (liquid nitrogen).
	- Other biological and chemical samples: storage either at 4°C and/or as frozen, as appropriate, locally in
	the laboratory of Proteolytic Mechanisms mediating Neurodegeneration.
What are the expected costs for data	The total estimated cost of data storage during the 10 years after the end of the project is approx. 40 000€
preservation during the expected retention	These costs will be covered by the VIB dotation budget assigned to the laboratory of Lucía Chávez-Gutiérrez.
neriod? How will these costs he covered?	, , , , , , , , , , , , , , , , , , , ,

6. Data Sharing and Reuse

Will the data (or part of the data) be made	
available for reuse after/during the project?	\square Yes, as embargoed data (temporary restriction)
Please explain per dataset or data type which	\square Yes, as restricted data (upon approval, or institutional access only)
data will be made available.	☐ No (closed access)
	☐ Other, please specify:
Note that 'available' does not necessarily mean that the	All research outputs supporting publications will be made openly accessible.
DATA SET BECOMES OPENLY AVAILABLE, CONDITIONS FOR ACCESS	We aim at communicating our results in top journals that require full disclosure upon publication of all
AND USE MAY APPLY. AVAILABILITY IN THIS QUESTION THUS ENTAILS	included data, either in the main text, in supplementary material or in a data repository if requested by the
BOTH OPEN & RESTRICTED ACCESS. FOR MORE INFORMATION: HTTPS://WIKI.SURFNET.NL/DISPLAY/STANDARDS/INFO-EU-REPO/#INF	journal and following deposit advice given by the journal. Depending on the journal, accessibility restrictions
OEUREPO-ACCESSRIGHTS	may apply.
	Sharing policies for specific research outputs are detailed below:
	- Physical experimental datasets described above (cell lines, vectors, recombinant proteins and
	compounds) will be stored as appropriate in the laboratory. Within availability, they will be reused
	during and after the project.
	- Digital experimental datasets (nucleic acid and protein sequences, images, and spectrometry data):
	they are stored on the servers and can be made available for reuse.
	- Research documentation: All protocols used to generate published data will be described in the
	corresponding manuscript(s), and the related documentation will be included as supplementary
	information. These data and all other documents (daily logs, raw data) deposited in the E-Notebook
	are accessible to the PI and the research staff, for reuse during/after project.
	- Manuscripts: All scientific publications will be shared openly. At the time of publication, research
	results will be summarized on the VIB website and post-print pdf versions of publications or links to
	them will be made available there if allowed by copyright agreements, possibly after an embargo as
	determined by the publisher. Before the end of the embargo or in cases where sharing the post-print
	is not allowed due to copyright agreements, a pre-print version of the manuscript will be made
	available.
If access is restricted, please specify who will be	X
able to access the data and under what	
conditions.	

Are there any factors that restrict or prevent the	☐ Yes, privacy aspects
sharing of (some of) the data (e.g. as defined in	
an agreement with a 3rd party, legal	☐ Yes, ethical aspects
restrictions)? Please explain per dataset or data	☐ Yes, aspects of dual use
type where appropriate.	☐ Yes, other
	□ No
	Structural data and novel compound structures, identified in this project, may be subjected to IP rights protection.

Where will the data be made available? ☐ KU Leuven RDR If already known, please provide a repository ☑ Other data repository (specify) per dataset or data type. ○ Other (specify) As a general rule, datasets will be made openly accessible, whenever possible via existing platforms that support FAIR data sharing (www.fairsharing.org), at the latest at the time of publication. Sharing policies for specific research outputs are detailed below: - Vectors: vectors are stored as appropriate in the laboratory. Within availability, they will be shared with interested researchers upon request. - Cell lines: cell lines are stored as appropriate in the laboratory. Within availability, they will be shared with interested researchers upon request. Other digital datasets that support publications (including image files, and mass spectrometry data) are stored on the servers and can be made available upon request. Antibodies, synthetic and recombinant compounds: samples are stored as appropriate in the laboratory. Within availability, they will be shared with interested researchers upon request. Research documentation: All protocols used to generate published data will be described in the corresponding manuscript(s), and the related documentation will be included as supplementary information. These data and all other documents (daily logs, raw data) deposited in the E-Notebook are accessible to the PI and the research staff, and will be made available upon request. Manuscripts: All scientific publications will be shared openly. At the time of publication, research results will be summarized on the VIB website and post-print pdf versions of publications or links to them will be made available there if allowed by copyright agreements, possibly after an embargo as determined by the publisher. Before the end of the embargo or in cases where sharing the post-print is not allowed due to copyright agreements, a pre-print version of the manuscript will be made available. Publications will also be automatically listed in our institutional repository, Lirias 2.0, based on the authors name and ORCID ID. Nucleic acid and protein sequences: they are stored on the KU Leuven servers and can be made available upon request. Data that do not support publication will be made available upon request by email.

When will the data be made available?	 ☑ Upon publication of research results ☐ Specific date (specify) ☐ Other (specify) As a general rule all research outputs will be made openly accessible at the latest at the time of publication. No embargo will be foreseen unless imposed e.g. by pending publications, potential IP requirements – note that patent application filing will be planned so that publications need not be delayed - or ongoing projects requiring confidential data. In those cases, datasets will be made publicly available as soon as the embargo date is reached.
Which data usage licenses are you going to	□ CC-BY 4.0 (data)
provide? If none, please explain why.	□ Data Transfer Agreement (restricted data)
	☐ MIT licence (code)
A DATA USAGE LICENSE INDICATES WHETHER THE DATA CAN BE	☐ GNU GPL-3.0 (code)
REUSED OR NOT AND UNDER WHAT CONDITIONS. IF NO LICENCE IS	☐ Other (specify)
GRANTED, THE DATA ARE IN A GREY ZONE AND CANNOT BE LEGALLY	Whenever possible, datasets and the appropriate metadata will be made publicly available through
REUSED. DO NOTE THAT YOU MAY ONLY RELEASE DATA UNDER A	repositories that support FAIR data sharing. These repositories clearly describe their conditions of use
LICENCE CHOSEN BY YOURSELF IF IT DOES NOT ALREADY FALL UNDER	
ANOTHER LICENCE THAT MIGHT PROHIBIT THAT.	(typically under a Creative Commons CC0 1.0 Universal (CC0 1.0) Public Domain Dedication, a Creative
Check the <u>RDR guidance on licences</u> for data and software sources code or consult the <u>License selector</u>	Commons Attribution (CC-BY) or an ODC Public Domain Dedication and Licence, with a material transfer
tool to help you choose.	agreement when applicable). We will follow the conditions of the repository that the data is submitted to
to help you choose.	regarding the usage licences.
	For data shared directly by the PI, a material transfer agreement (and a non-disclosure agreement if
	applicable) will be concluded with the beneficiaries in order to clearly describe the types of reuse that are
	permitted.
Do you intend to add a PID/DOI/accession	☑ Yes, a PID will be added upon deposit in a data repository
number to your dataset(s)? If already available,	☐ My dataset already has a PID
please provide it here.	□ No
INDICATE WHETHER YOU INTEND TO ADD A PERSISTENT AND UNIQUE	
IDENTIFIER IN ORDER TO IDENTIFY AND RETRIEVE THE DATA.	

What are the expected costs for data sharing?	It is the intention to minimize data management costs by implementing standard procedures e.g. for
How will these costs be covered?	metadata collection and file storage and organization from the start of the project, and by using free-to-use
	data repositories and dissemination facilities whenever possible. Data management costs will be covered by
	the laboratory budget.

7. Responsibilities	
Who will manage data documentation and metadata during the research project?	Metadata will be documented by the research and technical staff at the time of data collection and analysis, by taking careful notes in the electronic laboratory notebook (E-notebook) that refer to specific datasets.
Who will manage data storage and backup during the research project?	The research and technical staff will ensure data storage and back up, with support from René Custers and Alexander Botzki for the electronic laboratory notebook and from Raf De Coster for the KU Leuven drives.
Who will manage data preservation and sharing?	The PI is responsible for data preservation and sharing, with support from the research and technical staff involved in the project, from René Custers and Alexander Botzki for the electronic laboratory notebook and from Raf De Coster for the KU Leuven drives.
Who will update and implement this DMP?	The PI is ultimately responsible for all data management during and after data collection, including implementing and updating the DMP.