

Interfering with Bcl-XL/IP3R complex formation: from molecular determinants to proof of principle in a cancer-relevant context

DPIA

DPIA

Have you performed a DPIA for the personal data processing activities for this project?

- Not applicable

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GDPR

GDPR

Have you registered personal data processing activities for this project?

- Not applicable

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Application DMP

Questionnaire

Describe the datatypes (surveys, sequences, manuscripts, objects ...) the research will collect and/or generate and /or (re)use. (use up to 700 characters)

Western blots: .scn (Biorad ImageLab)
Fluorescent microscopy (intracellular Ca²⁺ imaging & immunofluorescence): ziar, zistream, zvi, .txt, .csv, .tif
Flexstation analysis (e.g. intracellular Ca²⁺): .pda (Molecular Devices SoftMax Pro) and .txt
Cytometry: .fcs (FlowJo)
Incucyte analysis are obtained as incucyte zoom files and saved as .xls, .tif and .mp4
Accompanying data and processed data (including also resulting presentations, reports, posters and publications): .txt, .docx, .jpeg, .tiff, .ppt, .xlsx, .mp4
514

Specify in which way the following provisions are in place in order to preserve the data during and at least 5 years after the end of the research? Motivate your answer. (use up to 700 characters)

1. Designation of responsible person (If already designated, please fill in his/her name.)
2. Storage capacity/repository
 - during the research
 - after the research

Data preservation is ensured by lab manager Tomas Luyten. All original and processed data are kept under electronic format or in the lab notebooks (paper version). Electronic data are kept during the project on the LMCS-shared network J-drive and the electronic lab notebook. After completion of the project all published data are archived (KU Leuven archive K-drive).

J-drive: 1Tb, with back-ups every 4h

K-drive: 1Tb, with daily back-ups

Electronic notebook: 1Tb, back-up to J-drive

In addition, we are implementing external and public storage through Mendeley Data. This has been done successfully for the data of one of our latest publication: <https://data.mendeley.com/datasets/tbxj2n99hv/4>

What's the reason why you wish to deviate from the principle of preservation of data and of the minimum preservation term of 5 years? (max. 700 characters)

NA

Are there issues concerning research data indicated in the ethics questionnaire of this application form? Which specific security measures do those data require? (use up to 700 characters)

NA

Which other issues related to the data management are relevant to mention? (use up to 700 characters)

NA

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FWO DMP (Flemish Standard DMP)

1. 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.

				Only for digital data	Only for digital data	Only for digital data	Only for physical data
Dataset Name	Description	New or reused	Digital or Physical	Digital Data Type	Digital Data format	Digital data volume (MB/GB/TB)	Physical volume
		Please choose from the following options: Generate new data Reuse existing data	Please choose from the following options: Digital Physical	Please choose from the following options: Observational Experimental Compiled/aggregated data Simulation data Software Other NA	Please choose from the following options: .por, .xml, .tab, .csv, .pdf, .txt, .rtf, .dwg, .gml, ... NA	Please choose from the following options: <100MB <1GB <100GB <1TB <5TB <10TB <50TB >50TB NA	
Western Blots		N	D	Experimental	tiff	<100GB	
Fluorescent and Confocal microscopy	Imaging files from microscopes	N	D	Experimental	zlar, zistream, zvi (Zeiss) and (Nikon), txt files	<1TB	
Flexstation	fluorescence/absorbance/luminescence measurements	N	D	Experimental	pda (softmax pro) and .txt	<1GB	
45Ca2+ unidirectional flux experiments		N	D	Experimental	.rtf and .xlsx	<1GB	
FACS	Cell death measurements via FACS analysis	N	D	Experimental	.fcs (flow jo files).	<1GB	
Incucyte	Cell death/cell proliferation experiments via Incucyte analysis	N	D	Experimental	.xls, .tif and .mp4	<100GB	
Cytometry		N	D	Experimental	.fcs	<100GB	
BLI and MST		N	D	Experimental	tif, txt	<1GB	
DNA Sequences		N	D	Experimental	txt	<1GB	

Cell line datafiles		E and N	D and P	Experimental and Compiled/aggregated data	txt, xls,	<1GB	1 kaft per cellijn
ELN stored data	Data analyses experiments and manuscript preparation	N	D	Experimental and Compiled/aggregated data	pdf, json, .eln	<1GB	
graphpad prism	data analyses	N	D	Experimental and Compiled/aggregated data	.pzfx	<10GB	
NMR	compound characterization	N	D	Experimental	NA	<10GB	
LCMS	compound characterization	N	D	Experimental	NA	<100GB	
cell lines Human		N and R	P	Experimental			as needed
cell lines animal		N and R	P	Experimental			as needed

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:

NA

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? Describe these issues in the comment section. Please refer to specific datasets or data types when appropriate.

- No

Will you process personal data? If so, briefly describe the kind of personal data you will use in the comment section. Please refer to specific datasets or data types when appropriate.

- No

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.

- No

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 in the comment section to what data they relate and what restrictions are in place.

- No

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 in the comment section to what data they relate and which restrictions will be asserted.

- No

2. 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).

According to good laboratory practices, each researcher involved in the project, provides detailed descriptions of his/her experimental data acquisition and/or on the generation of new biological materials in his/her (electronic) laboratory notebooks as appropriate, thereby cross-referring any paper notes that might be used to the electronic files containing the data, and to the biological samples used.

Protocols and products used are indicated and cross-referenced in the laboratory notebooks. Each experiment in the (E)LN will contain all data files with the exclusion of the microscopy data file (this will be stored on an external drive and cross-referenced) a metadata file with information about the specific dataset or links to other datasets including unique identifier numbers is included in the ELN. Revision history is maintained. JSON formatted files with metadata are included in the ELN.

The researchers involved will store work files on the J-drive or the KU Leuven Enterprise onedrive instead of his/her own laptop hard drive to prevent loss of data.

Cell lines will be documented in a standardized way inside the LMCS cell line database (format: .xlsx; location: J-drive) Write access only by the personnel affiliated to our cell culture facility. In 2025 this information will be transferred to the biobank database of the UZ/KU Leuven.

Plasmids in the LMCS lab will be documented in the ELN database. Information including DNA sequences of primers or other constructs or amino acid sequences of peptides generated or obtained during the project: .txt and .docx files and in ELN.

Will a metadata standard be used to make it easier to find and reuse the data? If so, please specify (where appropriate per dataset or data type) which metadata standard will be used. If not, please specify (where appropriate per dataset or data type) which metadata will be created to make the data easier to find and reuse.

- Yes

Metadata will be used. During and after the project all data is available on the LMCS-shared network J-drive and/or via the electronic laboratory notebooks of the researchers involved. This will make the data available to researcher within the research group. Data and all other information related to peer-reviewed publications will, at present, be archived on the LMCS Archive K-drive (1 TB presently available, can be expanded whenever necessary) as soon as possible after publication.

We will also make use of the KU Leuven research data repository. Data will be prepared according to the guidelines set by the university (DataCite).

3. Data storage & back-up during the research project

Where will the data be stored?

Data is stored on network drives of the KU Leuven (J-drive, K-drive) with automatic backup at least once per day for these drives by ICT. Experimental data is also stored in our electronic lab notebooks and are backed up once a day. The individual researcher will also back-up experiments of the ELN to their respective onedrive of the KU Leuven as a secondary back-up option.

Microscopy data will be saved on external hard drives due to the amount of data storage needed.

How will the data be backed up?

Standard back-up provided by KU Leuven ICTS for my storage solution

Automatic back-ups are created from the electronic lab notebook system we use in addition to the automatic backups provided

by KU Leuven ICTS for the J-drive.

**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

At the moment some of the drives are almost at capacity, but these can be extended when required. The additional cost will be divided at ratio by all current grants.

Available (drives can be expanded whenever needed):

- ELN: 800GB space, currently 10GB used
- research group networked-drive: 1TB space, currently 600GB used
- K-drive: 500GB space (for archiving purposes)
- Each individual researcher: Professional Onedrive (2TB)

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

All data from published papers is archived on our archive drives at the KU Leuven.

This drive is write only and can only be accessed by the lab manager and the PI's of the research group. Data can only be written and read, not modified or deleted.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

ELN: €121 / 1TB

J-drive: €51.9 / year/ 100GB

K-drive: €156 / year / 1TB

MySQL: €41.41 / year

Extension, Reparation or replacement costs for other hardware will be covered by the allocated 'consumables' budget of the projects ongoing in the lab

4. 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...).

All data will be preserved for 10 years according to KU Leuven RDM policy

Where will these data be archived (stored and curated for the long-term)?

Large Volume Storage (longterm for large volumes) Shared network drive (J-drive) KU Leuven RDR

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

ELN: €121 / 1TB

J-drive: €51.9 / year/ 100GB

K-drive: €156 / year / 1TB

MySQL: €41.41 / year

5. Data sharing and reuse

Will the data (or part of the data) be made available for reuse after/during the project? In the comment section please explain per dataset or data type which data will be made available.

- Yes, in an Open Access repository

Preliminary data will be presented in seminars and at national and international meetings as poster/oral communications/invited lectures.

Definitive data will be published in peer-reviewed, international journals (Open Access as per KU Leuven policy).

All data will be published in academic-peer reviewed journals as soon as possible. We aim to publish open access according to KU Leuven policy and publications will be available via Lirias 2.0. Data from published papers will in future be deposited in the KU Leuven research data repository.

Datasets will be uploaded to the university research data repository upon publication.

If access is restricted, please specify who will be able to access the data and under what conditions.

NA

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 in the comment section per dataset or data type where appropriate.

- No

Where will the data be made available? If already known, please provide a repository per dataset or data type.

KU Leuven RDR (Research Data Repository)

When will the data be made available?

Upon publication of research results

Which data usage licenses are you going to provide? If none, please explain why.

CC-BY 4.0 (data)

Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, you have the option to provide it in the comment section.

- Yes

What are the expected costs for data sharing? How will these costs be covered?

Publication costs (Open Access if possible) will be covered by the consumables budget. There is no cost involved at the moment

for using the KU Leuven data repository. 50GB available per researcher per year for free.

6. Responsibilities

Who will manage data documentation and metadata during the research project?

All researchers involved in the project are responsible for their own part. The PI's will supervise this process and deal with the long-term storage of data sets.

Who will manage data storage and backup during the research project?

All researchers involved in the project are responsible for their own part. The Lab managers in the research groups involved will supervise this process.

Who will manage data preservation and sharing?

The PI in the project together with the lab manager

Who will update and implement this DMP?

The PhD student, Lab ,manager and PI involved in the project