# FWO DMP 1131322N

1. General Information		
Name applicant	lan de Ridder	
FWO Project Number & Title	1131322N: IP3 receptor modulation by anti-apoptotic Bcl-2: from novel molecular determinants to impact	
	of disease-related mutations	
Affiliation		
	☐ Universiteit Antwerpen	
	☐ Universiteit Gent	
	☐ Universiteit Hasselt	
	☐ Vrije Universiteit Brussel	
	☐ Other:	
2. Data description		
Will you generate/collect new data and/or make	☐ ☑ Generate new data	
use of existing data?	☐ Reuse existing data	

Describe the origin, type and format of the data Biological material: cell lines, plasmids, primers, peptides, antibodies, purified proteins,... (per dataset) and its (estimated) volume Experimental data: • Western blots: .scn (imagelab files), TIFF If you **reuse** existing data, specify the **source** of these Fluorescent microscopy data: ziar, zistream, zvi (Zeiss) and ....(Nikon), txt files data. Distinguish data **types** (the kind of content) from Flexstation analysis: .pda (softmax pro) and .txt data formats (the technical format). 45Ca2+ unidirectional flux experiments: .rtf and .xlsx Cell death measurements via FACS analysis as .fcs (flow jo files). Cell death/cell proliferation experiments via Incucyte analysis are obtained as incucytezoom files and saved as .xls, .tif and .mp4 DNA Sequences and all relevant information is stored in a database Cell line datafiles will be preserved in the inventory management section of an electronic lab notebook and linked to the experiments. The data in the ELN is stored in a database. Both the raw data and the processed data of experiments including graphs will be preserved, as well as the resulting manuscripts. Analysis of the various techniques and storage of overall lab data will be in electronic notebooks or on the network drives of the university. Please note that the volume of most data is not going to be large enough to cause problems with our storage capacity. For the microscopy data we only will keep the original .ziar or ..... and .txt files for long term storage as these are sufficient to generate the other files. 3. Ethical and legal issues

# Will you use personal data? If so, shortly describe the kind of personal data you will use AND add the reference to your file in your host institution's privacy register. 3. Ethical and legal issues □ Yes □ No

Are there any ethical issues concerning the	☐ Yes
creation and/or use of the data (e.g.	⊠ No
experiments on humans or animals, dual use)? If	If yes:
so, add the reference to the formal approval by	- Reference to ethical committee approval:
the relevant ethical review committee(s).	
Does your work possibly result in research data	⊠ Yes
with potential for tech transfer and valorisation?	□ No
Will IP restrictions be claimed for the data you	If yes, please comment: This research project is more fundamental in nature. If this would be the case we
created? If so, for what data and which	will evaluate this on a case by case basis in collaboration with LRD.
restrictions will be asserted?	
Do existing 3 <sup>rd</sup> party agreements restrict	⊠ Yes
dissemination or exploitation of the data you	□ No
(re)use? If so, to what data do they relate and	If yes, please comment: Some cell lines or other biological materials (e.g. probes) that we may want to use
what restrictions are in place?	in the progress of this project can be covered by an MTA.

### 4. Documentation and metadata

What documentation will be provided to enable According to good laboratory practices, each researcher involved in the project, provides detailed understanding and reuse of the data descriptions of his/her experimental data acquisition and/or on the generation of new biological materials in collected/generated in this project? 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 ELN 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. Plasmids 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 FLN. Will a metadata standard be used? If so. X Yes □ No describe in detail which standard will be used. If not, state in detail which metadata will be If yes, please specify: Metadata will be used. During and after the project all data is available on the LMCScreated to make the data easy/easier to find shared network J-drive and/or via the 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 peerand reuse. 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 in future also make use of the KULeuven research data repository, launching in 2022. Data will be prepared according to the guidelines set by the university.

## 5. Data storage & backup during the FWO project

Where will the data be stored?	In KU Leuven facilities and servers
How will the data be backed up?	All 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. The electronic lab notebooks 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.
Is there currently sufficient storage & backup	⊠ Yes
capacity during the project? If yes, specify	□ No
concisely. If no or insufficient storage or backup	If no, please specify:
capacities are available, then explain how this	Available (drives can be expanded whenever needed):
will be taken care of.	ELN: 800GB space, currently 5GB
	<ul> <li>used research group networked-drive: 1TB space, currently 700GB used</li> </ul>
	K-drive: 1TB space (for archiving purposes)
	Each individual researcher: Professional Onedrive (2TB)
What are the expected costs for data storage and backup during the 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 Reparation or replacement costs for cell containers, freezers or other hardware will be covered by the allocated 'consumables' budget of the projects ongoing in LMCS
Data security: how will you ensure that the data	Every researcher has his/her own login on the ELN, password, and 2FA protected. Access to the J-drive and
are securely stored and not accessed or	professional one-drive is via password and 2FA.
modified by unauthorized persons?	Archived material on the K-drive will only be accessible to the lab coordinator and the PI's via u-number
	and password. Modifications of the archived data are not possible, write privileges are only for the lab
	coordinator, a read-only privilege only for the PI's. Removal of data is only possible by the ICT department
	upon request by the lab coordinator and agreement of the PI's.

### 6. Data preservation after the end of the FWO project

FWO expects that data generated during the project are retained for a period of minimally 5 years after the end of the project, in as far as legal and contractual agreements allow.

Which data will be retained for the expected 5 year period after the end of the project? In case only a selection of the data can/will be preserved, clearly state the reasons for this (legal or contractual restrictions, physical preservation issues,).	All obtained/generated data will be preserved for at least 5 years (as well the original data as the processed data), as well in Leuven as at our external partner.
Where will these data be archived (= stored for the long term)?	All data underpinning publications (original and processed data), all accompanying information and the files submitted for publication will be archived in a systematic way on the KU Leuven network K-drive or the KU Leuven research data repository.  The data will be stored on the university's central servers (with automatic back-up procedures) for at least 10 years, conform the KU Leuven RDM policy.
What are the expected costs for data preservation during these 5 years? How will the costs be covered?	All obtained/generated data will be preserved for at least 5 years (as well the original data as the processed data), as well in Leuven as at our external partner. See questions above about costs involved.

7. Data sharing and reuse	
Are there any factors restricting or preventing	∑ Yes
the sharing of (some of) the data (e.g. as	∐ No
defined in an agreement with a 3 <sup>rd</sup> party, legal	If yes, please specify:
restrictions)?	Data potentially leading to patent application or important for future applications will not be made
	available or only under restricting conditions.
Which data will be made available after the end	Preliminary data will be presented in seminars and at national and international meetings as poster/oral
of the project?	communications/invited lectures.
	Definitive data will be published in peer-reviewed, international journals (Open Access as per KU Leuven
	policy). Restrictions as mentioned in previous point.

Where/how will the data be made available for reuse?	<ul> <li>☑ In an Open Access repository</li> <li>☐ In a restricted access repository</li> <li>☑ Upon request by mail</li> <li>☑ Other (specify):</li> <li>All data will be published in academic-peer reviewed journals as soon as possible (for restrictions see above).</li> <li>We aim to publish open access according to KU Leuven policy and publications will be available via Lirias</li> <li>2.0. Data from published papers will in future be deposited in the KU Leuven research data repository.</li> </ul>
When will the data be made available?	<ul> <li>Upon publication of the research results</li> <li>Datasets will be uploaded to the university research data repository upon publication.</li> </ul>
Who will be able to access the data and under what conditions?	<ul> <li>Publications (open access).</li> <li>For published data: Via the KULeuven research data repository, conditions to be determined depending on data gathered during the project. Guidelines of the university will be applied.</li> <li>For unpublished data: only the PIs and researchers involved (or their scientific collaborators who will continue and follow up on the research after the completion of present project).</li> </ul>
What are the expected costs for data sharing? How will these costs be covered?	Publication costs (Open Access) will be covered by the consumables budget. There is no cost involved at the moment for using the KULeuven data repository. 50GB available per researcher per year for free.

8. Responsibilities	
Who will be responsible for the data	All researchers involved in the project are responsible for their own part. The Lab managers in the
documentation & metadata?	research groups involved will supervise this process.
Who will be responsible for data storage & back	All researchers involved in the project are responsible for their own part. The PI's will supervise this
up during the project?	process and deal with the long-term storage of data sets.
Who will be responsible for ensuring data	Both the applicant and the promotors of the project will be responsible
preservation and sharing?	
Who bears the end responsibility for updating &	Geert Bultynck
implementing this DMP?	