
Plan Overview

A Data Management Plan created using DMPOnline

Title: B Cell Vaccine Against Autoantigen in Solid Tumour

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Project abstract:

Cancer and the therapy represent major health challenges worldwide. Cancer immunotherapy has shown a big success, but harnessing the immune system to specifically target individual cancer expressed antigens is a major challenge, mainly due to immune responses to autoantigens being inhibited through immunological tolerance. Recently, we developed an active vaccination protocol that efficiently induces specific polyclonal autoantibodies targeting self-antigens expressed on tumour vessel endothelium (e.g. Robo4) resulting in the reduction of tumour growth in mice. In this project we will use clinically relevant cancer target Her2, known to be able to targeting by antibody, to understand how this vaccine protocol breaches immune tolerance in cancer, with the ultimate aim to improve cancer therapy.

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B Cell Vaccine Against Autoantigen in Solid Tumour

Data description

What types of data will be used or created?

The type of data that will be created is experimental data along with physical samples. Digital data: Tabular data on excel and Canvas files, text on word, Images as TIFF and on PPT. Labook scans in PDF. Physical data: Labook. Physical samples: All stored at 4 degrees or -20 degrees properly labeled to easy search on lab book or protocols in the digital data. The formats choosen are based on staff expertise. The data for long term value would be the data used for publication, and also the labbook in it physical and digital format, this data should be preserved.

How will the data be structured and documented?

Different folders per year of study will be made and fill with the data obtain during that year. Subfolders with the name of the source of the data will be used (PCR, FACS, Western Blots, etc).

All files will be named following the next coding:

DA TE(YEARMMD)_EXPERIMENTTYPE_NAMEEXPERIMENT_VERSION

Example: 20200416_PCR_LinealFrc_1

The quality of the data collected will be review on frequent lab meetings, peer review and on supervision meetings.

Data storage and archiving

How will your data be stored and backed up?

The University of Birmingham provides a Research Data Store (RDS); access to the RDS is restricted to project members. Backup copies of data are taken on a daily basis and data is stored in separate buildings from the live data. The RDS has a backup and retention policy on how it looks after the data including archiving of primary data here : <https://intranet.birmingham.ac.uk/it/teams/infrastructure/research/bear/research-data-service/RDS/BackupRetentionPolicy.aspx>

Is any of the data of (ethically or commercially) sensitive nature? If so, how do you ensure the data are protected accordingly?

The data does not include information from human subjects and is not involved with any intellectual property request.

Where will your data be archived in the long term?

At the publication of a paper, a subset of the data that underpins the paper will be transferred to the UoB BEAR Archive. Once transferred the data will be set to read-only to prevent any inadvertent additions or deletions of the dataset, Any changes will result in a new dataset, which will be archived separately. The BEAR Archive solution has been created to be highly resilient and is located at two data centers in two different sites, with a backup placed in a third site. Data will be stored for 10 years, should access to the data be requested within a 10 year period, the 10 year clock is then reset from the point of last access. After the 10 year period the data will be deleted

Data sharing

Which data will you share, and under which conditions? How will you make the data available to others?

Data will be shared through the University of Birmingham's eData repository (<https://edata.bham.ac.uk/>) which makes the datasets discoverable through search engines like Google. eData uses Dublin Core as a metadata standard and the minimum metadata provided for published datasets will cover amongst others title, type of data, creators, publication date and related publications.