
Capture and detection of waterborne parasites such as cryptosporidium and/or giardia using existing and emergent technologies

A Data Management Plan created using DMPOnline

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Start Date: 2021-09-13

End Date: 2024-03-31

Faculty: Faculty of Engineering

Faculty: Faculty of Engineering

School: Grad. School of Biomedical Eng

Research Area: Capture and detection of waterborne parasites such as cryptosporidium and/or giardia using existing and emergent technologies

RDMP Id: H0408826

DMPOnline Id: 6296

Ethic Approval Number: false

What is the highest/most secure data classification level that applies to any component of the data?:

Private

Project abstract:

Detection of waterborne protozoa using existing technologies such as chemiluminescence and LFA, as well as emergent technologies such as CRISPR and aptamers.

Last modified: 03-06-2022

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Capture and detection of waterborne parasites such as cryptosporidium and/or giardia using existing and emergent technologies

Data Collection

Cryptosporidium is a waterborne parasite of global health significance. Sensitive monitoring for these organisms in environmental water supplies is essential for ensuring public health. This project will use various detection methods to try and improve sensitivities and efficiency of water testing labs. Data will be quantitative and qualitative analysis of capture and detection of waterborne parasites, particularly Cryptosporidium. Data will be a combination of visual observations, measurements by plate reader, and similar instruments.

- Joint photographic experts group (.jpg)
- Plain text file (.txt)
- Audio/Video interleaved format (.avi)
- Comma separated values (.csv)
- Microsoft excel (.xls)
- Portable document format (.pdf)
- Tagged image file format (.tiff)

- No

Will be using equipment such as plate readers, spectrometers etc. Data is typically exported in excel or jpg formats.

Spectramax plate reader software.
Axxin Kinetic Designer software
Excel
Camera

Documentation and Metadata

Notes, dates, additional observations

Data will be stored in digital folders on OneDrive and backed up locally on PC. Folders organised by date experiments were performed and grouped by research topic (i.e. Chemiluminescent detection, CRISPR detection, LFA, etc)

No special codes, but data grouped into area of research and dates they were performed

Ethics and Legal Compliance

- UNSW
- Other

- UNSW
- Other

Data is original and will be owned by UNSW and myself, IP issues should not be relevant however future products developed from this research may be jointly owned by UNSW and Biopoint who is partly funding my PhD.

No ethical issues are forecast as no patient data or sensitive information is being shared.

Storage and Backup

Data is stored on OneDrive UNSW server with local PC storage auto back up. Important documents are saved in multiple locations.

Access is shared with supervisor Ewa Goldys

- Other

Selection and Preservation

Not yet determined

Not yet determined

Data Sharing

Data is shared with supervisor Ewa Goldys

No

Yes

Responsibilities and Resources

Myself

PC access, internet access. harddrive storage

