
Plan Overview

A Data Management Plan created using DMPTool

Title: Thematic Project: Valproic acid action on the structure and function of chromatin

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Project abstract:

The present proposal aims to bring contribution on how the different metabolic pathways following the action of valproic acid/sodium valproate (VPA), a well-known drug prescribed for the treatment of seizure disorders and a classic histone deacetylase inhibitor, express at the chromatin structural and functional levels in some cell models, including HepG2, HeLa, glioblastoma and insect cells. The project also aims to unveil whether VPA has the potential to link directly to DNA and histone molecules, thus affecting their structure.

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Thematic Project: Valproic acid action on the structure and function of chromatin

Descrição dos Dados e Metadados

Quais serão os dados coletados?

Description of data and metadata

- Quantitative data on cell viability after VPA treatments using the MTT assay
- Image analysis and flow cytometry data
- Confocal microscopy images and/or videos
- Western blots. Densitometric quantifications
- Infrared microspectroscopical spectral absorbances (FTIR) for construction of spectral signatures and mathematical calculations

Que metadados serão anotados e qual padrão será seguido?

Data packages.

Aspectos Legais e Facilidade de Acesso aos Dados

Quais são as questões legais e éticas associadas aos dados e relevantes a este projeto?

Ethics and Legal Compliance

Data on routinely used cultured cells and isolated VPA, DNA, histones, and mixture of these molecules do not need approval of the Research Ethics Committees of Unicamp. The use of the insect species *Triatoma infestans* (Klug) and *Panstrongylus megistus* (Burmeister) was approved by the Scientific and Ethics Committee of the Superintendence for Control of Endemic Diseases of the state of São Paulo (SUCEN) (Protocol no. 64.405/2015).

Quais são as políticas a serem utilizadas para o compartilhamento de dados?

Data will be shared in the official repository of Unicamp (REDU) using specific DOIs.

Raw data on cell variability after drug treatments and infrared microspectroscopical spectral absorbances generated from this research could be used without restriction for the sake of contributing with other investigations, provided that the original authors are cited.

For the use of data on images, videos, Western blots and flow cytometry prior to their formal publication, approval from the original authors will be required. After the publication of these data, and depending on the journal where they are published, it is possible that they may be re-used, provided that the articles are cited based on Creative Common CC-BY license. It is possible that some restriction to data sharing occur due to the embargo period imposed by copyright of the scientific journals to which data are subjected.

Gestão de Dados e Armazenamento

Em que formatos serão armazenados os arquivos resultantes da pesquisa em questão? Que software poderá ser utilizado para a manipulação de cada um dos formatos listados?

Results of the research will be made available in digital form as PDFs, spreadsheet tables, tab-delimited files and image and/or video files. Images will be saved in standard image formats such as JPEG, TIFF, or PNG. The resulting manuscripts will appear as PDFs and contain text, calculations, drawings, plots and images.

Como e onde estes arquivos serão mantidos? Por quanto tempo ocorrerá esta preservação? Como será realizado o backup destes dados?

Storage and backup (Archiving of data)

Data from this research will be stored in the official repository of the University of Campinas (REDU/CGDP) and will get a specific DOI generated as unique and persistent identifier. They will be retained dependent upon storage capacity.

Data will also be stored in personal computers and external hard-drives of the researchers involved in the present study. In this case, storage will last up to 5 years after the end of the study.