Plan Overview

A Data Management Plan created using DMPTool-Stage

DMP ID: https://doi.org/10.48321/D10K5Q

Title: Structural organization of rat tendon components under in vitro culture

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Project abstract:

The present work proposes to investigate the structural organization of the components of rat tendons cultivated under *in vitro* culture conditions using high-performance polarizing microscopy techniques, cytochemical methods and image analysis. The evaluation of changes in the optical anisotropic properties of the collagen bundles and the nuclear phenotypes of the tenocytes will allow for organizational and macromolecular characteristics of these structures behave in organ explants.

Start date: 02-28-2019

End date: 02-28-2022

Last modified: 08-07-2023

Copyright information:

Structural organization of rat tendon components under in vitro culture

- Polarization microscopy images
- Quantitative data on total birefringence and linear dichroism
- Image analysis data

Data packages.

Wistar rats aged 90 days will be used. The animal care protocol was approved by the Unicamp Institutional Committee for Ethics in Animal Experimentation (protocol no. 5064-1/2018).

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

Raw data on total birefringence and linear dichroism 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 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.

Results of the research will be made available in digital form as PDFs (Adobe Acrobat), spreadsheet tables (XLS/XLSX - Microsoft Excel, Libre Office) and image files (JPEG, TIFF or PNG). The resulting manuscripts will appear as PDFs and contain text, calculations, drawings and images.

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.
