

## Plan Overview

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*A Data Management Plan created using DMPTool*

**Title:** Covalent immobilization of antimicrobial peptides (AMPs) onto porous titanium oxide surfaces: a new strategy to fight infections and its impact on osteogenic and degradation properties of dental implants

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# **Covalent immobilization of antimicrobial peptides (AMPs) onto porous titanium oxide surfaces: a new strategy to fight infections and its impact on osteogenic and degradation properties of dental implants**

## **Data Collection**

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### **What data will you collect or create?**

Text documents, figures, graphs and tables/spreadsheets as digital data.

### **How will the data be collected or created?**

The data will be collected or created from different characterizations (morphological, topographic, structural, chemical, and another types) or processing steps of the experimental samples.

The data will be organized into digital folders/files, being named according to the characterization technique performed and sample designation.

To ensure consistency and quality of data collection, processing and characterization protocols will be followed and sample replicates will be used.

## **Documentation and Metadata**

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### **What documentation and metadata will accompany the data?**

Metadata will include the data title, ORCID ID of the responsible, date of creation, description of the experimental method, keywords, and financial support details.

## **Ethics and Legal Compliance**

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### **How will you manage any ethical issues?**

Identity protection and/or approval from Ethics Committees are not needed to this project.

### **How will you manage copyright and Intellectual Property Rights (IP/IPR) issues?**

The data of this project can be used in future studies as long as its source is properly acknowledged.

Also, although it is not the main objective of this project, eventually some results which demand actions of Intellectual Property can be obtained. In this scenario, privacy and confidentiality will be

ensured by the *Agência Unesp de Inovação* (AUIN).

## **Storage and Backup**

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### **How will the data be stored and backed up during the research?**

During research period, the data will be stored on different locations to significantly increase the chances for its recovery (if needed), which include personal laptops, computer hard drives, external storage devices, and cloud storage services, allowing both manual and automatic backup processes. Manual backups will be performed monthly.

### **How will you manage access and security?**

All collaborators will have secure access to the data through passwords (confidential and non-transferable) and also by using controlled sharing functions provided by the cloud storage services.

## **Selection and Preservation**

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### **Which data are of long-term value and should be retained, shared, and/or preserved?**

All data will be preserved.

### **What is the long-term preservation plan for the dataset?**

The data will be available as long as the institutional repository exists.

## **Data Sharing**

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### **How will you share the data?**

The data will be shared via institutional repository after its respective publication in scientific papers, or eventually after discussion and agreement in case of data under Intellectual Property actions.

### **Are any restrictions on data sharing required?**

There are no restrictions on sharing the data already published, except in case of data under

Intellectual Property actions. In this last scenario, restrictions on data sharing will comply confidentiality agreements established.

## **Responsibilities and Resources**

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**Who will be responsible for data management?**

The data management will be carried out by the responsible researchers for this project.

**What resources will you require to deliver your plan?**

No additional resources are required to deliver this plan.

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