

# **GPDQ Documentation**

***Release 0.0.0***

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GPDQ (Gold Particle Detection and Quantification) is a tool for the analysis of images obtained by immunogold labeling.

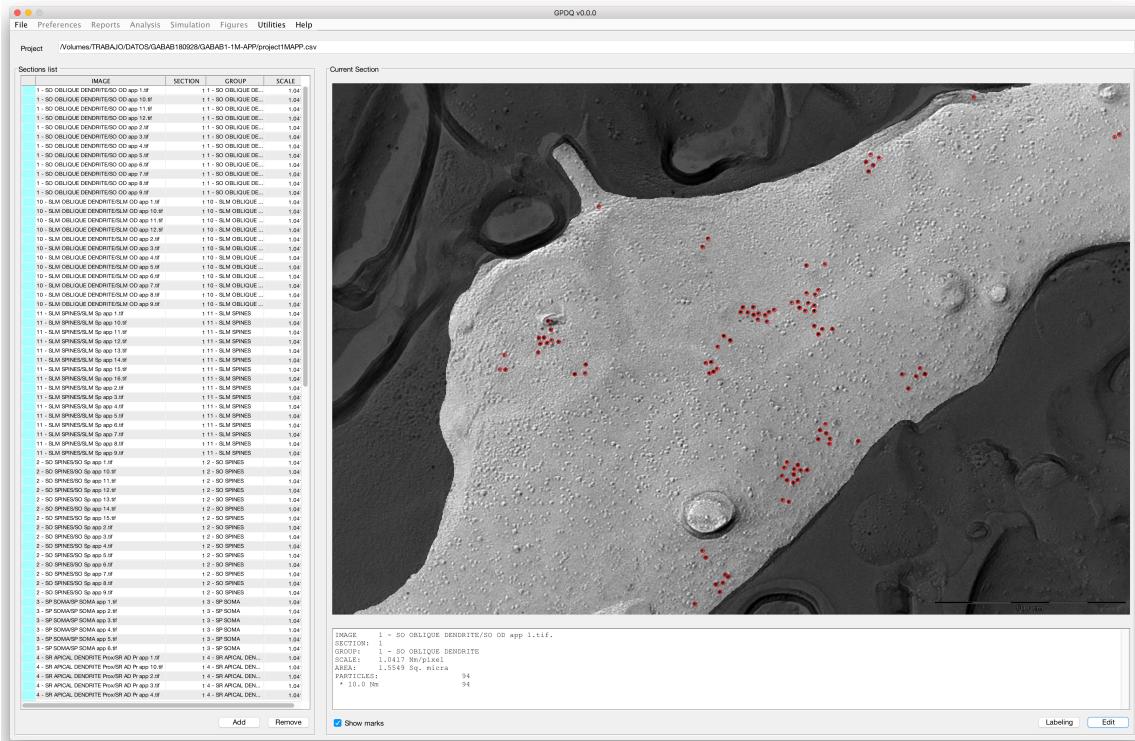


Figure 1. Main application for project management.

Provides functionalities for:

- Managing projects and experimental series
  - Automatic and semiautomatic labeling of images
  - Basic image processing
  - Analyzing data
  - Generating and exporting reports.

The Matlab APP covers the whole analysis process, and uses a transparent representation of the information (structures, images and csv files) so that it can be used as well as a set of objects and functions that complement the work with other tools or statistical packages.

```
project = GPDQProject.readFromFile('DATA/GABAB1-6M-WT/','project.csv');  
report = reportNNStats(project.getProjectData(),2);  
report.save('GABAB1-6M-WT.csv');
```

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**Quickstart: GUI App**

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Brief description of the main application



## **Projects**

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Description of a project, how it is structured



### Utility Functions

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How to use each function separately



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## **Creating New Modules**

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How specific modules can be created



**Code**

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Packages



### Snippets

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Packages

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**Note** This is a note box (blue)

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And so on



## **Requirements**

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GPDQ v1.0.0 has been written on Matlab R2018b. It requires these toolboxes:

- Image Processing Toolbox (Version 10.3)
- Parallel Computing Toolbox (Version 6.13)



## **Credits**

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### License

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