

MP-IDB: The Malaria Parasite Image Database for Image Processing and Analysis

URL:

<https://github.com/andrealoddo/MP-IDB-The-Malaria-Parasite-Image-Database-for-Image-Processing-and-Analysis>

Note:

Please indicate the following in case of use of this dataset in your own work:

@InProceedings{10.1007/978-3-030-13835-6_7, author="Loddo, Andrea and Di Ruberto, Cecilia and Kocher, Michel and Prod'Hom, Guy", editor="Lepore, Natasha and Brieva, Jorge and Romero, Eduardo and Racocceanu, Daniel and Joskowicz, Leo", title="MP-IDB: The Malaria Parasite Image Database for Image Processing and Analysis", booktitle="Processing and Analysis of Biomedical Information", year="2019", publisher="Springer International Publishing", address="Cham", pages="57--65", isbn="978-3-030-13835-6" }

Description:

MP-IDB is the public image dataset described in the following article: https://link.springer.com/chapter/10.1007/978-3-030-13835-6_7 Authors: Andrea Loddo, Cecilia Di Ruberto, Michel Kocher, Guy Prod'Hom.

MP-IDB comprises four species of Malaria parasites: Falciparum, Malariae, Ovale, Vivax. For each species, there are four distinct stages of life, described in the filenames as follows:

- R: indicates the presence of 1 or more than 3 Ring stage parasites
- T: indicates the presence of 1 or more than 3 Trophozoite stage parasites
- S: indicates the presence of 1 or more than 3 Schizont stage parasites
- G: indicates the presence of 1 or more than 3 Gametocyte stage parasites.

Each original image has its own ground-truth, provided by expert pathologists, while every image has been analyzed from left to right, therefore every filename indicates the presence of the parasites following this indication.