

# MM-PCSeg Dataset: Microscopic Images of Multiple Myeloma Cancer

This file contains annotation of plasma cells via black arrows in each slide.

This dataset belongs to three papers listed below. Further, this data is provided after stain normalization.

Users of this data are requested to cite the below papers:

- 1) Anubha Gupta, Pramit Mallick, Ojaswa Sharma, Ritu Gupta, and Rahul Duggal, "PCSeg: Color Model Driven Probabilistic Multiphase Level Set based Tool for Plasma Cell Segmentation in Multiple Myeloma", Accepted, PLOSOne Journal, 2018.
- 2) Anubha Gupta, Rahul Duggal, Ritu Gupta, Lalit Kumar, Nisarg Thakkar, and Devprakash Satpathy, "GCTI-SN: Geometry-Inspired Chemical and Tissue Invariant Stain Normalization of Microscopic Medical Images," under review.
- 3) Ritu Gupta, Pramit Mallick, Rahul Duggal, Anubha Gupta, and Ojaswa Sharma, "Stain Color Normalization and Segmentation of Plasma Cells in Microscopic Images as a Prelude to Development of Computer Assisted Automated Disease Diagnostic Tool in Multiple Myeloma," 16<sup>th</sup> International Myeloma Workshop (IMW), India, March 2017.









































































































































































