

# Red Blood Cell Surface Scan via Atomic Force Microscope

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## ABSTRACT

There has been extensive research into erythrocytes or red blood cells (RBCs) over the years due to their relatively simple structure and the ease of isolation. RBCs are biconcave in shape. Each RBC has an approximate thickness of 2-3 microns and a diameter of around 7.0 microns. A complete understanding of the structure and features of these cells is important because of their immense role in the transportation of oxygen and carbon dioxide in the body. Using atomic force microscopy, we initiate a series of preliminary investigation into the dynamical and mechanical properties of these cells.

**Keywords:** red blood cell (RBC), atomic force microscope (AFM)