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A decision support system for Type 1 Diabetes Mellitus diagnostics based on dual channel analysis of red blood cell membrane fluidity

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Highlights

- Investigate the use of human cells membrane fluidity for type 1 diabetes monitoring
- We present a decision support system that classifies type 1 diabetes mellitus patients
- The experiments were carried out on a wide dataset of images from the subjects
- The results outperform the glycosylated hemoglobin test used in the state-of-the-art

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