

The Pediatric Hematology Research Laboratory, Emek Medical Center (EMC), Afula, affiliated to the Technion, Israel Institute of Technology

One of our primary research areas include non-malignant blood disorders such as congenital anemias (Sickle Cell Anemia and Thalassemia) and platelets coagulation disorders . In our lab we combine clinical and basic research.

In addition to this work we are investigating the role of extra-cellular vesicles in the pathophysiology of Hemoglobinopathies and other hematological diseases. Extracellular vesicles appear to play an important role in the pathophysiology of many diseases and we have already demonstrated their utility as markers of disease severity. We are hoping to advance our understanding of these particles sufficiently to be able to harness them therapeutically.

We study Red Blood Cell morphology and pathophysiology in health and disease; with intend to improve our understanding and to develop new diagnostic tools and treatments. Currently we are participating in research in collaboration with Zurich University, looking at the efficacy of a new treatment for Sickle Cell Anemia in relation to clinical and laboratory parameters. For this investigation we are using a newly developed instrument for micro-fluid analysis of red blood cell morphology and survival, the study of Red Blood Cell membrane proteins and antigens. For this project we are looking for a PhD student

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