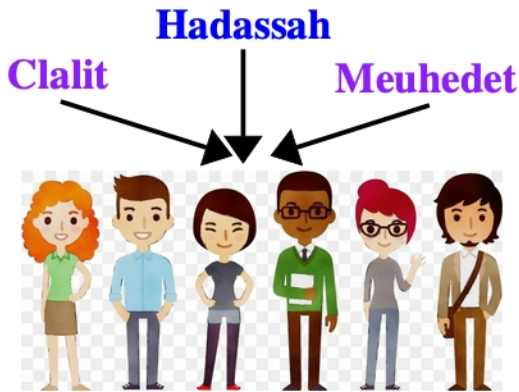
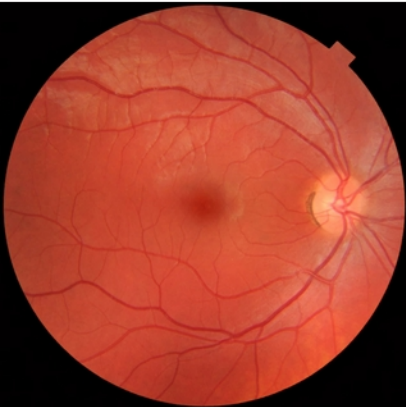


Inherited retinal diseases: from national-scale discovery of genes and risk factors to development of novel personalized therapeutics
Dror Sharon, Eyal Banin, Shay Ben-Aroya, Shai Carmi

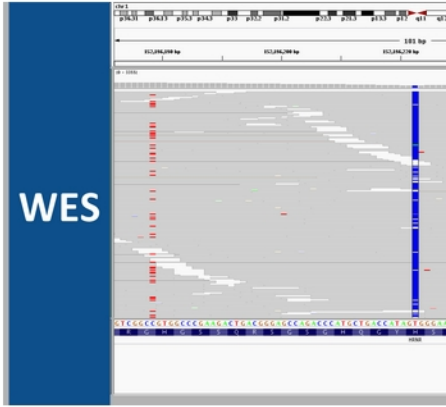
Cohort- retinal diseases
4000-5000 patients



Clinical characterization



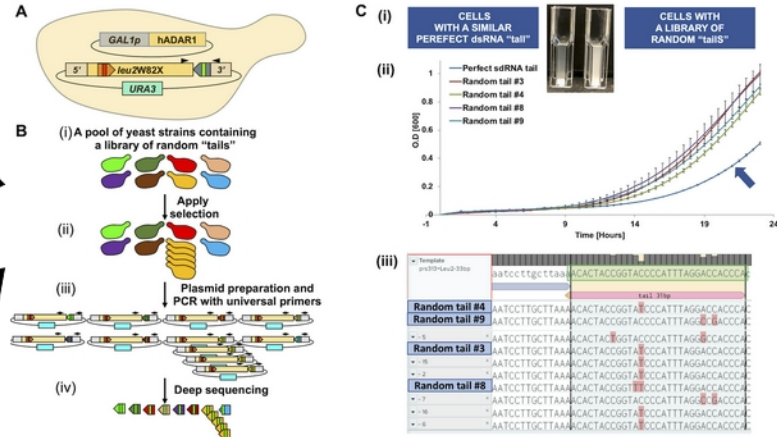
Genetic analysis



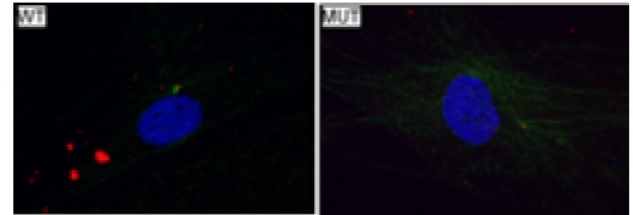
Statistical analysis for the identification of Genetic and environmental modifiers

RNA editing
A-to-I by ADAR

Improve ADAR efficiency



Test ADAR on cell-lines



Test ADAR on KI mice models as a novel therapy



Outcomes:

- 1. Clinical and genetic characterization of patients with retinal diseases**
- 2. Identification of modifier genes and gene-environment interactions**
- 3. Developing of cell lines and mouse models for retinal diseases.**
- 4. Developing a novel therapeutic modality for retinal disease by RNA editing**