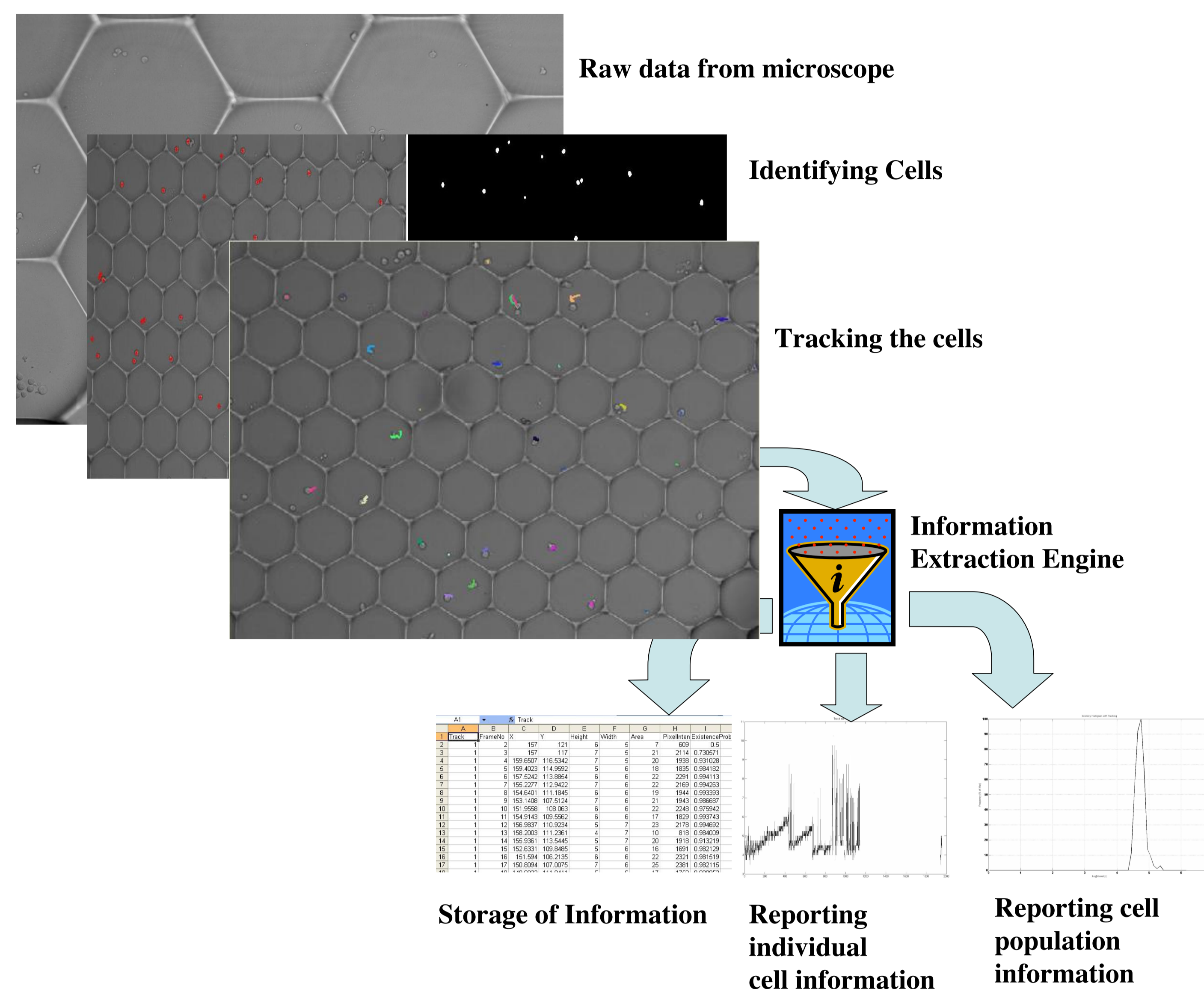


Automated Microscopic Cell Tracking



Prof. Subhash Challa

Design and develop a robust, flexible and accurate system that extracts relevant information from video microscopy data



Research Objective

- Targeting modern high throughput video microscopy technology
- Replacing the slow manual analysis by much faster automated analysis
- Offering immense potential for cell biology researchers and drug industry.

Research Approach

- Bayesian Data Fusion Technologies for robust image processing
- Sophisticated algorithms for tracking multiple cells under complex scenario
- Probabilistic methods and modeling for accurate information extraction and analysis.

Looking Ahead

- Completed MATLAB based development for technology demonstration
- Initiated effort to build commercially ready prototypes
- Product demonstration to potential end-users

Collaborator : Walter and Eliza Hall Institute (WEHI)

For more Info, please visit : <http://www.nicta.com.au/research/projects/midas>