



From Discoveries to Products

Ramot at Tel Aviv University



Tel Aviv University

An Interdisciplinary Research Community



Tel Aviv University

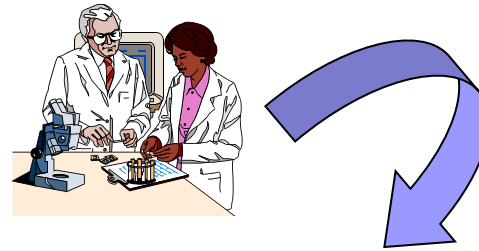
Largest Research University in Israel

- faculties, 27 schools, 98 departments
- 133 research centers & institutes
- students
 - 14,000 graduate students
- 1,100 senior faculty members



Ramot's Activities

- ❑ Ramot leads the transfer of new technologies from TAU laboratories to the marketplace
- ❑ 120 new invention disclosures per year
54 granted patents in 2010
- ❑ Deal Flow: >25 license and option agreements with industrial companies (2010)
- ❑ Bridging the Development Gap



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Development Pipeline - Therapeutics

| Disease/Condition | Development Stage | Company |
|----------------------------------|--------------------------|-------------------------------------|
| Alzheimer's Disease | Clinical Phase III | Pfizer / Janssen AI |
| | Clinical Phase II | Pfizer / Janssen AI |
| | Clinical Phase II | Allon Therapeutics |
| | Pre-Clinical | Merz Pharmaceuticals |
| | Pre-Clinical | Neurophage Pharmaceuticals |
| Frontotemporal Dementia | Pre-Clinical | NasVax |
| | Clinical Phase II (late) | Allon Therapeutics |
| Schizophrenia | Clinical Phase II (late) | BioLineRx |
| | Clinical Phase II | Allon Therapeutics |
| Neuropathic Pain | Clinical Phase I | BioLineRx |
| ALS | Clinical Phase I | BrainStorm Cell Therapeutics |
| Parkinson's Disease | Clinical Phase I | Allon Therapeutics |
| | Pre-Clinical | BrainStorm Cell Therapeutics |
| | Clinical Phase II (late) | Concordia Pharmaceuticals |
| Cancer | Pre-Clinical | Sepal Pharmaceuticals |
| | Pre-Clinical | Procognia |
| | Pre-Clinical | Quiet Therapeutics |
| siRNA Drug Delivery | Pre-Clinical | Quiet Therapeutics |
| Cardiovascular | Pre-Clinical | Pep2life |
| Anti-Virus Nutraceuticals | Pre-Clinical | Frutarom |
| Therapeutic Antibodies | Pre-Clinical | Fusimab Ltd. |

Development Pipeline - Medical Devices

| Disease/Condition | Development Stage | Company |
|-----------------------|-------------------|-----------------|
| Wound Healing | Clinical Phase | EnzySurge |
| Radiotherapy | Pre-Clinical | Althera Medical |
| Cardiovascular | Pre-Clinical | NewCo |

Products on the Market

Lipimix | Tubilux[®] Pharma



Circadin[®] | Neurim Pharmaceuticals



Dentyl[®] pH | Blistex[®] Inc.



x4[™] Flash Memory | SanDisk

SanDisk

ER Bar Code Scanners | Motorola



Bioremediation | BPC



Optical Fibers | Polymicro Technologies

Polymicro
TECHNOLOGIES

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Available Technologies in:

- ❑ Biotechnology
- ❑ Pharmaceuticals
- ❑ Chemistry
- ❑ Diagnostics
- ❑ Information & communication technology
- ❑ Nanotechnology
- ❑ Cleantech
- ❑ Mechanical engineering
- ❑ Medical devices
- ❑ Material Sciences
- ❑ Electro-optical
- ❑ Agri-Bioscience

Bridging the Development Gap



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TAU-Tech 1



TAU Future Technology Partnership (TAU-Tech)

investment
\$8.5M

Return on
investment



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TAU-Tech Projects

- Biotechnology
 - Drug candidates for Alzheimer's Disease **R&L**
active commercialization, Diabetes – IAPP inhibitors (funded research)
 - Drug candidates for type II diabetes **active commercialization**
 - Novel cancer targeted drug delivery system **R&L (siRNA)**
TS signed
- Medical Devices
 - Direct lung fluid monitoring system for congestive heart failure patients
TS signed
 - Optical Micro-Biosensors for Biomedical Diagnosis **active commercialization**
- Energy
 - Fuel cells for mobile electronics **active commercialization**
and industrial applications (secondary-cells) **R&L**
 - Micro-battery on a chip **TS signed**

Philanthropic Funds



Tel Aviv University Fund for Applied Research*

The Colton Family Next Generation Technologies Institute

- ❑ **“TAU Fund for Applied Research” supported 7-10 projects ~\$1M per year**
- ❑ **“The Colton Institute” - Matching funds by Johnson & Johnson**
 - Projects are selected following a stringent process by Ramot and a professional committee, to meet commercial as well as scientific criteria

* Funded by the Yeshaya Horowitz Association, Jerusalem

Industry Sponsored Applied Research Fund

- ❑ Funds allocated by a corporate partner
- ❑ Joint steering committee evaluates and selects projects
- ❑ Project selection:
 - IP position
 - development plan
 - clearly defined commercialization path
- ❑ Ramot provides strategic and scientific guidance with a clear market focus
- ❑ The corporate partner has certain rights
- ❑ Two such multi-million dollar funds are currently operational, in the fields of nano-technology and smart-cards



Government funding programs: Office of the Chief Scientist (OCS)



Ministry of Industry, Trade & Labor
Office of the Chief Scientist



- ❑ **Magneton**: supports mutual cooperation between one academic group and one industrial company. The purpose is to foster technology transfer for increasing feasibility of a technology resulting from an academic research, before implementation by the company for further development. (grant 66% of budget; 2 yrs \$800K)
- ❑ **Noffar**: supports applied academic research in order to promote technology transfer to the industry. The goal is to achieve a milestone for further R&D investment by the company. (grant 90% of budget; 1 yr \$100K)
- ❑ **Kamin**: supports academic research with the potential for industrial and commercial application in Israel (launched May 2011) (grant 90% of budget; 2 yr \$200K)
- ❑ **Incubators**: supports start-up companies

Collaborating with Ramot

Ramot is eager to partner with companies and research institutions for the mutual benefit through

- Research Services
- Research Collaborations
- Out-licensing of Technologies



www.ramot.org