

This brief provides highlights of the 2015 President's Report of The Hebrew University of Jerusalem. The version published online at: <a href="mailto:support.huji.ac.il/presidentsreport">support.huji.ac.il/presidentsreport</a> contains the full report and accounts.

# President's Remarks

in Honor of the 90th Anniversary of the Opening of The Hebrew University of Jerusalem



Ninety years ago, the opening ceremony of the Hebrew University took place in the amphitheater on Mount Scopus. The vision of the founders of our University was unique: to establish a scientific institution that would serve as the first national institution in the land of Israel; a university that pursues the universal values of science together with a unique Hebrew University in the land of Israel; a center of research built within the British Empire in the spirit of the West while being firmly rooted in the Middle East.

Looking back over the past 90 years, it is clear that the vision of the University's founding fathers has been realized above and beyond their expectations. The Hebrew University has produced generations of scholars who have opened new worlds through modern scientific research methods and educated thousands of students.

Today, too, we remain loyal to the basic principles of the founding vision: rigorous scientific inquiry along with service to society through research. In addition, we must serve as an exemplar of a multi-cultural, pluralistic, socially-aware community characterized by mutual respect and cooperation.

As we face the coming decades, we emphasize our determination to continue to be the leading research university in Israel and amongst the top universities worldwide, by creating new, cutting-edge research knowledge that extends frontiers of science and advances society and by preserving and managing it; by high quality teaching that trains the leaders of tomorrow; and by strengthening interdisciplinary research and teaching in order to position the University as a leader in the international academic community.

We hope that the generations that come after us will take pride in our legacy as we take pride in and are graced by the legacy of those who came before us.

Mewh & Sum Professor Menahem Ben-Sasson

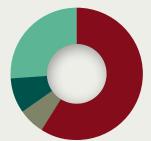
President

#### Expenditure & Income

2013-2014 (in US \$ millions)

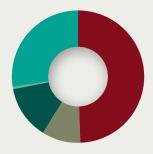
#### Expenditure

Total Expanditura 922		
	Other	217
	Scholarships	71
	Acquisitions	53
	Salaries & Pension	492



#### Income

Total Income 819	
Other	224
Yissum	5
<ul><li>Friends of HU</li></ul>	106
<ul><li>Student Fees</li></ul>	79
<ul><li>Government (PBC)</li></ul>	405



#### Research Budget According to Groups

2013-2014 (in US \$ thousands)

•	Faculty of Science, School of Engineering & Computer Science	73,116
	Faculty of Medicine, School of Pharmacy, Faculty of Dental Medicine	42,139
	Faculty of Humanities, School of Education, School of Business Administration	17,446
	Faculty of Agriculture, Food & Environment	22,668
•	Faculty of Social Sciences, School of Social Work & Social Welfare	11,390
	Faculty of Law	1,610



## Amounts Received from Friends Organizations

2013-2014 (in US \$ thousands)\*

Total Income

Source of Income	Total Income	Percentage of Total
USA	49,499	46.3%
Israel	15,939	14.9%
Europe	11,848	11.1%
UK	8,830	8.3%
Canada	7,559	7.1 %
Australia	6,714	6.3%
Other Countries	6,412	6.0%
Total	106 801	100.0%

168,366

\* The dollar values above are translated from the amount shown in the University's books in New Israeli Shekels at the rate of exchange on the day of transaction.







## **Alumni**

Establishing a Community of Outstanding Graduates

The tens of thousands of Hebrew University alumni constitute an elite group that has made significant contributions around the world and are a great source of pride to the University.

In 2014 the University embarked on a strategic plan for establishing an alumni organization in Israel and abroad. Programs, which have included cultural events, mentoring sessions and meetings with business leaders, have all been met with great success. This spring, hundreds of the most prominent alumni in Israel came together from political, judicial, business and cultural spheres in Israel. Programming in the US has targeted the more than 60,000 alumni living there, and in Canada, a variety of programs are implemented to strengthen the ties between alumni and the Hebrew University family.

To link alumni throughout the world, Hebrew University has initiated HUJIconnect.com, an online alumni network where alumni can communicate directly with one another. This platform offers discussion as well as job postings, event updates, and more which encourage alumni network building.

## **Teacher-Scholars**

Bringing the University to the Community

The performance of Israeli school children in international assessment tests in science and mathematics has been showing steady decline since the early 1970s. Developed by Hebrew University faculty members who are also parents and thus firsthand witnesses to the challenges facing the educational system, the Teacher-Scholar Program is an out-of-thebox plan to enable Ph.D. graduates who will not be continuing full time in academia to truly contribute to high school teaching in the city of Jerusalem, while simultaneously maintaining their connection to the research community at the University. The Teacher-Scholar model injects the education system with a cadre of new, energetic, and highly qualified science teachers who are not only continually updating their science knowledge but are also providing their pupils with an exciting introduction to the world of research.

The program is a win-win collaboration between the Hebrew University and the Municipality of Jerusalem that will improve the quality of teaching in local schools while helping the University fill essential non-tenured research positions.

# Translational Medicine

Towards a Healthier Community

Hebrew University's Faculty of Medicine continues to lead Israel's medical community. The Faculty engages in cutting-edge translational medical research to improve the health of individuals and the community by "translating" basic science into diagnostic tools and treatments, as well as policies and education. By working from "[lab] bench to beside," and with its affiliations with Hadassah, Shaarei Tzedek and other hospitals, the Faculty is ideally placed to advance this agenda.

An example of such research can be found in the lab of Prof. Yuval Dor. Type 2 diabetes has reached epidemic proportions throughout the world. A central feature of the disease involves the collapse of insulin-producing beta cells in the pancreas when exposed to high levels of glucose. Why does this "glucotoxicity" of beta cells occur? Professor Dor, in collaboration with Professor Benjamin Glaser (Hadassah Medical Center) has used molecular biology and genetic engineering techniques as well as clinical samples from patients to address this question. They have found a surprising process that appears to be at the heart of glucotoxicity: double stranded breaks to the DNA of beta cells. While DNA damage has been known to contribute to cancer initiation and progression, its role in diabetes has not yet been recognized. Their findings suggest new approaches for reducing glucotoxicity and improving metabolic health in diabetic patients.



# Center for Multiculturalism

Embracing our Diverse Community

How can Israel create a common public sphere in which all diverse communities can feel a sense of belonging - in which they can connect? Can there be a national identity or characteristics of a core, shared citizenship with which everyone can identify? To what extent should diversity be accommodated? To address these challenges, the Hebrew University created its new Center for the Study of Multiculturalism. The Center serves as an advocate for multiculturalism on campus, providing not only a setting for the academic exploration of multiculturalism, but also a comfortable space within the University for people of all backgrounds to meet, study, work and socialize together while being exposed in a very real sense to the concept of diversity as life enhancing.

The Center will provide the framework for a new approach to this essential challenge for the country and will serve as a model where students, faculty and members of the wider public will be imbued with the spirit of diversity to the benefit of all segments of Israeli society.



# Community Social Work

Creating Stronger Communities

Students in the Community Social Work track of the Paul Baerwald School of Social Work and Social Welfare engage in building community and enhancing quality of life for residents. Their activities within various Jerusalem neighborhoods encompass identifying and analyzing problems, identifying stakeholders, promoting awareness, lobbying for social rights and developing and implementing interventions.

This year, projects included creating a learning center for Arab youth which combined homework assistance with soccer games; bringing Jewish and Arab women from adjacent neighborhoods together to learn Arabic and Hebrew; and increasing fan involvement in soccer leagues. Another initiative increased public interaction with local artists by making their work more accessible in a shopping center. A major recent accomplishment of the program has been student involvement in initiating the creation of a park alongside the old train tracks in Jerusalem. The resulting tree-lined lush green boulevard with pedestrian and bicycle paths is a highlight of the city and a meeting place for all its residents.



## **The Living Lab**

Developmental Science in the Community

Located in the inner lobby of the Bloomfield Science Museum, the Living Lab is a unique collaboration between Dr. Inbal Arnon and Professor Ariel Knafo from the Psychology Department, and the Museum. The Lab is a working experimental lab which aims to educate the general public about child development by involving museum visitors in the process of scientific discovery. Visitors are invited to serve as participants in short studies where they have the ability to learn about the science of child development while simultaneously contributing to it. The Living Lab breaks down barriers between scientists and the public; provides a unique educational experience for both children and adult visitors and allows for novel links between the Hebrew University and the community. Since its inception in January, more than 1000 individuals have participated.

One of the current studies led by Dr. Arnon aims to explain why adults struggle more than children in learning languages, despite their more developed cognitive capabilities.

# Hebrew University in the Press

Press
2014—2015
ebrew University is Ranked First in Israel, Third in Asia, and 70th Worldwide in 2014 Academic Ranking of World Universities
eading Hebrew University Professor, Hermona Soreq, Receives Rappaport Prize for Excellence in Medical Research
MRIC Scientists Find a Surprising Link Between Weaning and Glucose Metabolism
ebrew University's Dr. Ami Citri Wins Adelis Brain Research Award
Cientists Develop a Novel Method to Suppress Malaria Parasite's Virulence Genes, Break the Code of its Immune Evasion
ebrew University and Freie Universität Berlin Sign Agreement for Joint Doctoral Program as Israel and Germany

University Delegation on 70th Anniversary of the Liberation of Auschwitz	Analysts and Diplomats Talk Temple Mount, Israel-Jordan Relations
S cientists Map Brains of the Blind to Solve Mysteries of Human Brain Specialisation	Preakthroughs in Molecular Electronics Paves the Way for DNA-Based Computer Circuits in the Future
ebrew University and Partners Launch the Digital Einstein Papers	entipede's Genome Reveals How Life Evolved on Our Planet
esearchers: Fear of Terrorism Increases Resting Heart Rate and Risk of Death	ebrew University Scientists Create Thereapy-Quality Stem Cells using Cocktail to Reprogram Adult Cells
J oint Research Institute Between Hebrew University, Nanyang Technological University (NTU) in Singapore, and Korea University	western Wall Wearing Away? Discovery of Extreme Erosion Process Could Guide New Preservation Techniques
Presented to Prof. Alexander Levitzki at Medical University of Innsbruck	ebrew University Researchers Find Israel's Deepest Cave
ireless Nanorod-Nanotube Film Enables Light Stimulation of Blind Retina; Breakthrough Could Lead to	hildren from Sderot Visit the Hebrew University for a Fun Science Day
Artificial Retinas for Visually Impaired  ———————————————————————————————————	resident Peres Awards Scholarships to Hebrew University PhD Students Advancing Agriculture, Water and the Environment
Agreement  s Co2 Acidifies Oceans, Scientists Develop New Way to Measure its Effect on Marine Ecosystems	as Da Vinci Wrong? New Paradigm Shows that Friction and Fracture are Interrelated, say Hebrew University Physics Researchers

↑ t Truman Institute Event,

# Hebrew University at a Glance



## **Rankings**

No. 1 in Israe

No. 5 in Asia-Pacific region

No. 70 Worldwide No. 27 Mathematics

No. 51-75 Chemistry and Computer Science



## **Awards for Excellence**

	Technology Transfer	93 42
51	Years of Transferring Technologies	14
8,961	Patents	8
2,508	Inventions (170/year)	1
785	Licenses	1
96	Spin-off companies	1

211	1314C11112C3
93	Rothschild Prizes
42	EMET Prizes
14	Wolf Prizes
8	Nobel Prizes
1	Fields Medal in Mathematics
1	Canada Gairdner International Award
1	Turing Award in Computer Science

	International
262	Academic agreements with institutions in 44 countries
78	Competitive research grants from the European Research Council (ERC) since 2007, totaling over €120 million
220	Postdoctoral researchers from 26 countries
109	University and faculty level student exchanges





## **Students**

23,000	Total student body
12,500	Undergraduates
5,000	Master's students
2,200	Doctoral candidates
3,300	Overseas and pre-academic students, postdoctoral fellows and others



## **Teaching**

6	Campuses
7	Faculties
315	Departments
955	Faculty members
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### The Hebrew University of Jerusalem

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THE HEBREW UNIVERSITY OF JERUSALEM