



Turun yliopisto  
University of Turku

# 2013

ANNUAL REPORT



# THE UNIVERSITY OF TURKU IS

OPEN

CRITICAL

A COMMUNITY

CREATIVE

ETHICAL

## Strengths in Research

- Molecular biosciences
- Cardiovascular and metabolic research
- Ecological interactions and genetics research
- Learning and education
- Futures research
- Institutional design and social mechanisms

## The Academy of Finland's Centres of Excellence at the University of Turku in 2008-2013:

- Aro, Eva-Mari: CoE in Integrative Photosynthesis and Bioactive Compound Research at Systems Biology Level
- Jalkanen, Sirpa: CoE in Host Defence Research
- Knuuti, Juhani: CoE in Molecular Imaging in Cardiovascular and Metabolic Research
- Nurmi, Hannu: CoE in Public Choice Research



## Deans

FACULTY OF HUMANITIES  
Dean Eija Suomela-Salmi

FACULTY OF MATHEMATICS AND NATURAL SCIENCES  
Dean Reijo Lahti

FACULTY OF MEDICINE  
Dean Tapani Rönnemaa

TURKU SCHOOL OF ECONOMICS  
Dean Markus Granlund

FACULTY OF LAW  
Dean Jukka Mähönen

FACULTY OF SOCIAL SCIENCES  
Dean Kimmo Rentola

FACULTY OF EDUCATION  
Dean Marja Vauras

Deans discuss the highlights of the faculties  
in 2013 on p. 6-10.

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The University's 3 missions





# RECTOR'S REVIEW 2013

2013 was an eventful and active year for the University of Turku. It was also profitable.

This year, the efforts of the whole staff and especially students were rewarded by better learning results. A total of 1 461 students completed a lower academic degree, 1 633 completed a higher academic degree and 162 Doctoral Candidates finished their doctorate. We have finally reached the number of

graduates we have been aiming at. Now we have a great opportunity to concentrate on developing the quality and making sure that the level of completed degrees remains this high.

In addition, more research results were published than before. As a whole, our researchers published over ten scientific articles every day of the year. What is particularly significant is that the number of articles published in the most prestigious journals has increased. The solving of one scientific problem almost always creates new questions, so the preconditions for the continuous development of the quality of our research seem great. Furthermore, the number of inventions has increased by almost a third from the previous year.

In 2013, we made several structural reforms concerning our independent units and industrial and commercial activities. We combined separate independent units into larger operational units and transferred some

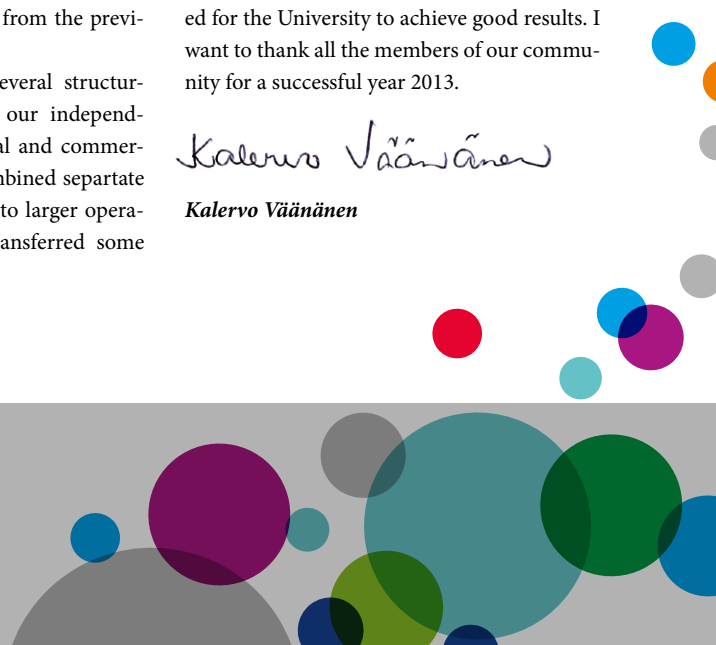
of them back under the administration of the faculties. The goal of these actions is to improve our influence in the society and secure our economic stability in the future.

The number of the teaching and research staff in the faculties increased slightly and the number of the administrative staff decreased by 3%. In 2013, the University staff completed 3 314 person-years, which is 32 more than in the previous year. The increase in the facility costs slowed down considerably from the last few years.

Success requires a great amount of work. The commitment and enthusiasm of the whole university staff and students are needed for the University to achieve good results. I want to thank all the members of our community for a successful year 2013.



**Kalervo Väänänen**





## Publications

Peer reviewed



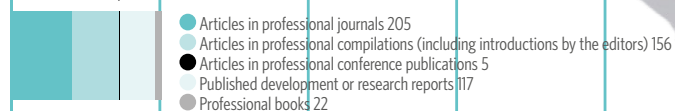
Non-peer reviewed



Scientific books



Publications for professional audiences



Publications for the general public



Audiovisual materials and ICT programs



0 500 1000 1500 2000 2500

4 874

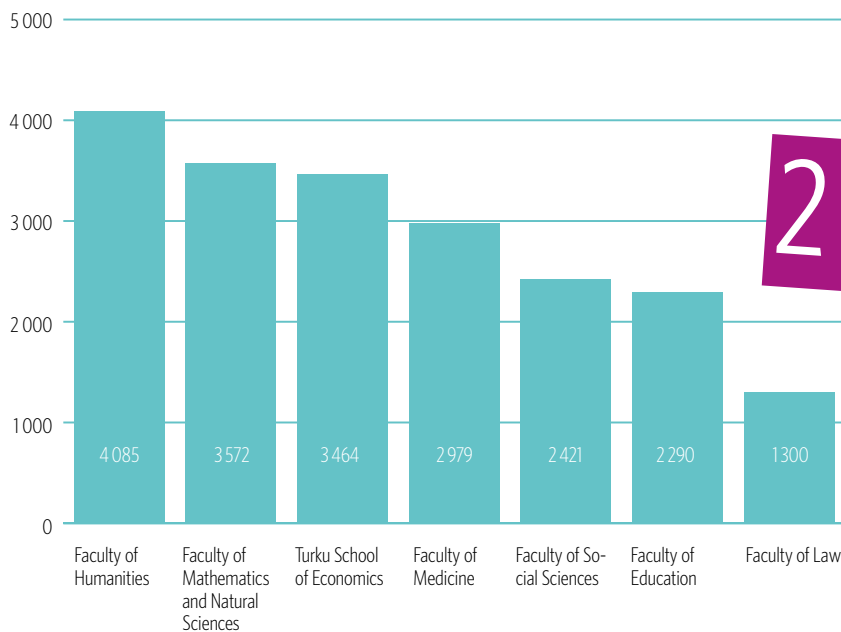
publications  
reported to  
the ministry.



# EDUCATION CREATES CONTINUITY

Seven faculties offer a variety of subjects in different fields. There are nearly 100 major study programmes and 40 minor study modules. According to a survey of sixth-formers in 2013, the University of Turku is the second most interesting and well-known multidisciplinary university in Finland. The teaching also produces results. The number of both Master's and doctoral degrees exceeded the goals set by the University with the Ministry of Education and Culture.

**Students per Faculty 2013**



"The Faculty made a complete educational structure reform in the undergraduate studies."

Faculty of Mathematics and Natural Sciences

"Our students continue to graduate so fast that even the Rector is amazed. We have been preparing for a great change: joint entrance exams in political sciences and in social sciences. As a result, we will combine some of the basic studies as well. Another great change has already begun, the doubling of the student intake in social sciences which will meet the needs of the society."

Faculty of Social Sciences

**2 634** new undergraduate students began their studies in the autumn

The total number of students:

**20 111**

Work on the syllabi for the new units and the clarification of study tracks in different subjects has begun well. Especially the School of Language and Translation Studies made significant progress in creating more extensive study modules.”  
Faculty of Humanities

“In August, the Faculty initiated the new training programme for the licentiate of medicine with an extended intake of students, 155 of them.”  
Faculty of Medicine

“We drafted an extensive plan for modernising the study environments. Modern spaces for education will be built in Educarium, which will function as models for new study environments and teaching technology on both the Turku and Rauma campuses. We also designed an early support model for preventing, mediating and solving conflicts between students and teachers.”  
Faculty of Education

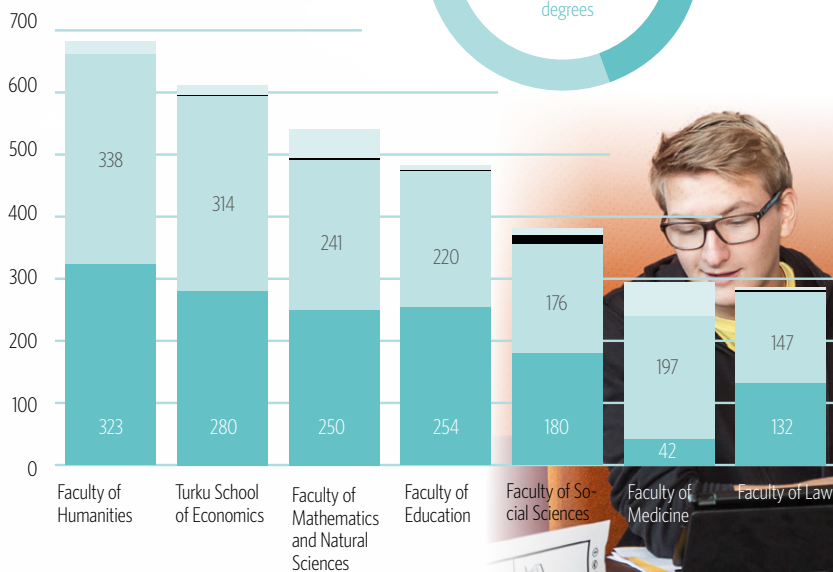
“We gave the larger intake of students an even better basis for their studies at the University. Larger quantity doesn't have to decrease quality.”  
Faculty of Law

“The number of completed degrees rose to an excellent level after a few difficult years”  
Turku School of Economics

The proportion of students who completed their degree in the allotted time **73.4%**

## Completed Degrees in 2013

- Doctoral degrees
- Licentiate degrees
- Higher academic degrees
- Lower academic degrees





# CREATIVE RESEARCH

The core of the University of Turku is versatile and high-quality research. In 2013, our research took a leap forward. A larger proportion of the personnel work in research than before, partly thanks to the several research projects: 31% of the personnel are research staff. The reformation of the Graduate School also created a strong basis for research.

## 16 Doctoral Programmes in the New Graduate School

The Graduate School of the University of Turku UTUGS was reformed in the Autumn of 2013. Altogether 16 Doctoral Programmes were established at the Graduate School and 100 new doctoral training positions funded by the University were opened for application.

The number of the doctoral training positions increased by nearly 14%. All in all, there are 200 places, a quarter of which will be opened for application each year. Over 800 Doctoral Candidates applied for the first hundred places that were opened. Over a third of the applications came from abroad.

Since the reformation in the summer of 2013, all of the approximately 1 800 Doctoral Candidates of the University belong to one of the University's Doctoral Programmes which cover all the faculties.

In 2013, the evaluation of the applications for the Doctoral Programmes was carried out on the level of the whole University for the first time. When deciding on the programmes and the number of the positions, the University considered information about the supervisors' research, the total of completed degrees, the number of completed degrees by foreign students, the programmes' operations and syllabi as well as the networking of the programme.

The establishment of the Graduate School in 2011 has made the graduation of Doctoral Candidates remarkably more effective. Instead of the approximately 150 doctors that graduated in earlier years, 182 doctors graduated in 2012 and 162 in 2013.

"Our Doctoral Programme strengthened and will ensure a larger number of graduates in the future"

Faculty of Law

"The great success of the Departments of Psychology and Philosophy in international rankings has continued and now history has joined the group as well. In addition, the media success of Professor Jani Erola's social class research and his ERC grant were particularly gratifying."

Faculty of Social Sciences

"Both the publication activity and the number of doctoral degrees remained on a high level. We had more international doctoral graduates than ever before. The two doctoral programmes of the Faculty, Utuling and Juno, continued their successful operations after the reformation of the Graduate School."

Faculty of Humanities

"The Functional Food Forum and Central Animal Laboratory will be transferred into the Faculty at the beginning of 2014. The Academy of Finland acknowledged the high-quality of our research by giving us two Centres of Excellence."

Faculty of Medicine

"We were successful in the Academy of Finland's Future of Learning, Knowledge and Skills research programme: together, three projects received nearly 2 million euro in funding. In addition, 23 students were selected for our two Doctoral Programmes."

Faculty of Education

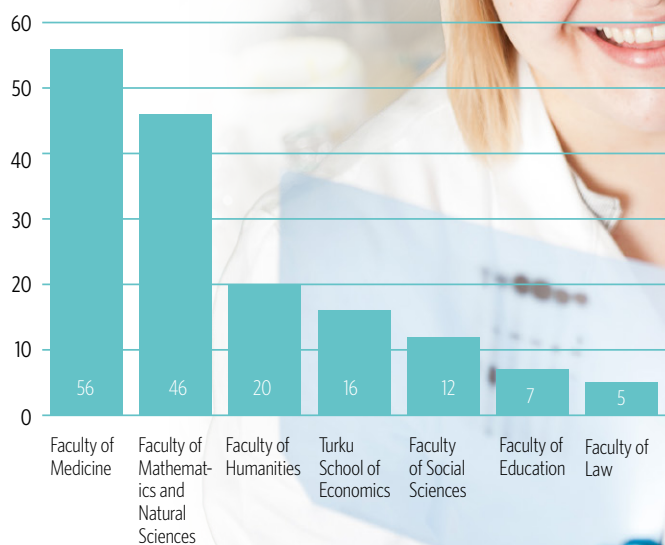
"Because of the reformation of the Graduate School, the Doctoral Programmes of the School of Economics received substantially better resources."

Turku School of Economics

"We received a great amount of outside funding; for example, a Centre of Excellence and an Academy Professorship from the Academy of Finland. In addition, our researchers published their results in prestigious international journals which is an indication of the high-quality of our research"

Faculty of Mathematics and Natural Sciences

### Completed Doctoral Degrees in Each Faculty



# INTERACTION WITH THE SOCIETY

All the operations of the University of Turku influence the function and development of the society within different spans of time. The University offers multiple services; for example, new innovations and cooperation with companies as well as different kinds of collaboration between employers and students. Through science communications and the popularisation of science, the most recent research results are brought to the awareness of the public.

"The Biobank Act came into force in September and together with the hospital districts of western Finland the Faculty has done intensive groundwork for establishing the Auria Biobank. We hired two professors and three other members of staff for the bank."

Faculty of Medicine

"We have active and multiple operations in the region and are one of the most visible faculties of the University."

Faculty of Mathematics and Natural Sciences

"We developed our strategy with the help of a new, international Advisory Board and continued active participation in the ICT and maritime industry development projects."

Turku School of Economics

"Active interaction with the society helps us to develop the societal relevance of the education."

Faculty of Humanities

"Our diverse continuing education programme was even more successful than before and it is our most central way to interact with the society."

Faculty of Law

"The development of the export of teacher training continued strongly and we also planned extensive module-based education. At Rauma, the beginning of the uniform basic education increased the cooperation between the city and the University. We participated strongly in the discussion about educational policy in regard to the equality of Finnish education."

Faculty of Education

"The education of social work increased, sociologists are carrying out significant research on social class, the KiVa School project of the Department of Psychology remains successful and the researchers of the Faculty are sought after by the public, especially those of the Centre for Parliamentary Studies."

Faculty of Social Sciences

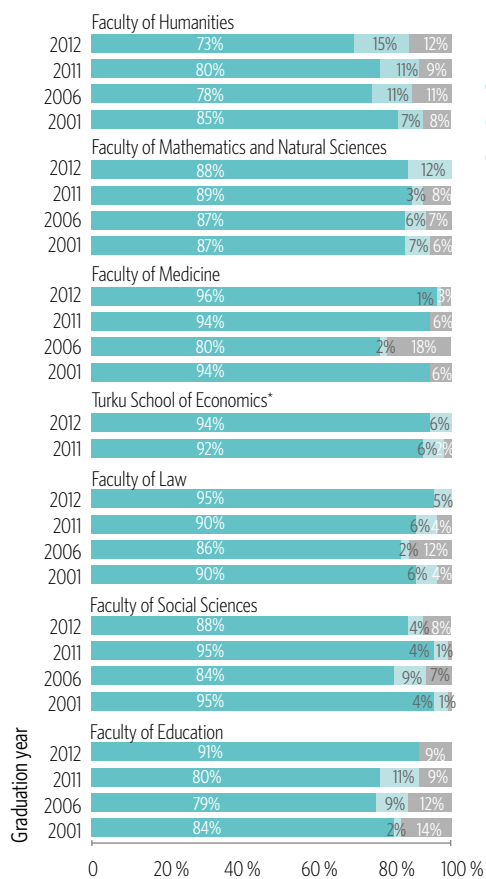


MASTERS FIND  
EMPLOYMENT!

89% of those who  
graduated in  
2011 were  
employed

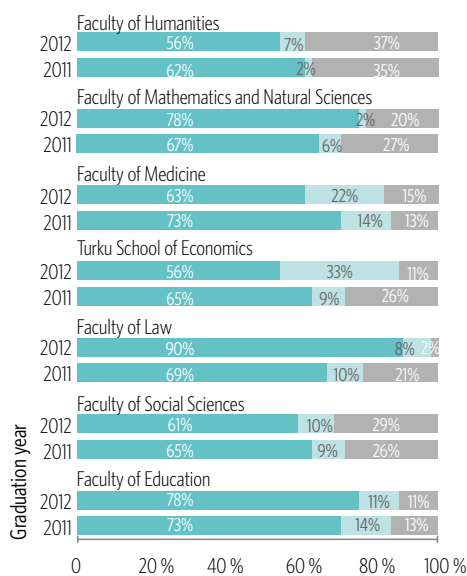
4% of those who  
graduated in 2011 were  
unemployed

## Labour Market Position



\* Turku School of Economics first took part in the survey in 2008.

## Work Corresponds to Education



## Business from Science

The New Knowledge and Business from Research Ideas programme funded four development projects of the University in 2013 and decided to fund two more at the end of the year.

Funded development projects in 2013:

- KiVa School anti-bullying programme
- Whispers-af-detect - detecting atrial fibrillation
- @EduMental - electronic services for mental health work
- the biomarkers of endometriosis

Projects to receive funding:

- development of oligoadjuvant in allergy desensitisation
- Aistila - commercialising research on senses



Functional Foods Forum will receive funding for commercialising research on senses.

- Work corresponds to education
- Work is more demanding than the level of education
- Work is less demanding than the level of education

# EVERY DAY IS INTERNATIONAL

The focal point of the international education is the 16 international Master's degree programmes. In 2013, the target number of the international degree students was clearly exceeded: 843 international degree students studied at the University of Turku when the goal was 500.

International research cooperation, participation in international academic networks and university visits are all part of the University's everyday life. In 2013, education export took a step forward when the universities of Turku, Tampere and Eastern Finland established a joint education export company Finland University Ltd.

## In addition in 2013:

- The University of Turku and the Transnational Health Science and Technology Institute (THSTI) of the Ministry of Science and Technology of India founded a joint diagnostics centre.
- The University of Turku and Fudan University initiated a joint engineer training programme.
- The Department of Education and Centre for Research on Lifelong Learning and Education joined a Nordic Centre of Excellence funded by NordForsk for the period of 2013–2018.
- The Turku science community began cooperation with the Russian Skolkovo Institute of Science and Technology.
- The John Morton Center, which carries out research on North America, was established as a new unit at the Faculty of Social Sciences.

## Most Popular Subjects among the Exchange Students

Discipline the student was primarily accepted to study:

- Finnish Language and Culture for Foreigners
- Turku Law School
- Business Sciences, International Business
- Political History
- Baltic Sea Region Studies
- Education
- Finnish-Nordic Society and Culture
- English
- Nursing Science
- Geography



The number and destination of  
outgoing exchange students

**Germany** 96

**Sweden** 68

**Spain** 66

**France** 66

**Britain** 53

**China** 42

**The Netherlands** 40

**United States** 39

**Belgium** 27

**Austria** 25

**Russia** 25

**Thailand** 24

**Italy** 20

**Lithuania** 17

**Switzerland** 17

**Estonia** 17

**Japan** 16

**Canada** 16

**Hungary** 16

**The Czech Republic** 15

**Chile** 14

**South Korea** 14

**Greece** 14

**Turkey** 14

**Indonesia** 13

**Ireland** 12

**Portugal** 12

**Denmark** 11

**Australia** 10

**Kenya** 9

**Malaysia** 9

**Peru** 9

**Brazil** 8

**India** 7

**Norway** 6

**Iceland** 4

**Mexico** 4

**Israel** 3

**Liechtenstein** 3

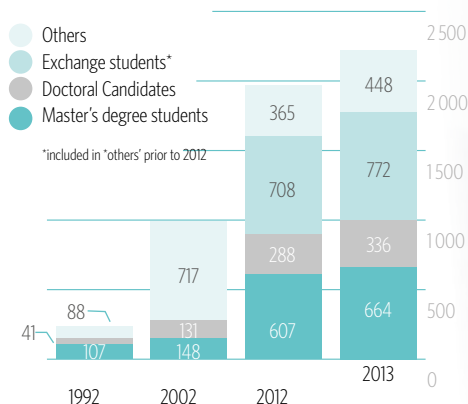
**Ghana** 2

**Croatia** 2

**852**

outgoing  
exchange  
students

## International Students Enrolled at the University of Turku



**2220** international  
students at the  
University of  
Turku

Sweden 19  
Mexico 17  
Romania 17  
Latvia 16  
Ghana 15  
Brazil 14  
Switzerland 14  
Belarus 14  
Canada 12  
Serbia 12  
Kenya 11  
Australia 9  
Iraq 9  
Cameroon 9  
Portugal 9  
Egypt 7  
Colombia 7  
Cyprus 7  
Iceland 6  
Slovenia 6  
Denmark 6  
Albania 5  
Hongkong 5  
Ireland 5  
Israel 5  
Croatia 5  
Libya 5  
Tanzania 5  
Thailand 5  
Azerbaijan 4  
Bulgaria 4  
Malaysia 4  
Ecuador 3  
Indonesia 3  
Kazakhstan 3  
Moldova 3  
Norway 3  
Tajikistan 3  
Taiwan 3  
Algeria 2  
Armenia 2  
Bosnia-Herzegovina 2  
the Philippines 2  
Georgia 2  
Senegal 2  
Sri Lanka 2  
New Zealand 2  
Chile 1  
Costa Rica 1  
Eritrea 1  
South Africa 1  
Guatemala 1  
Honduras 1  
Yemen 1  
Cambodia 1  
Congo 1  
North Korea 1  
Luxembourg 1  
Macedonia 1  
Malawi 1  
Morocco 1  
Syria 1  
Uganda 1  
Venezuela 1



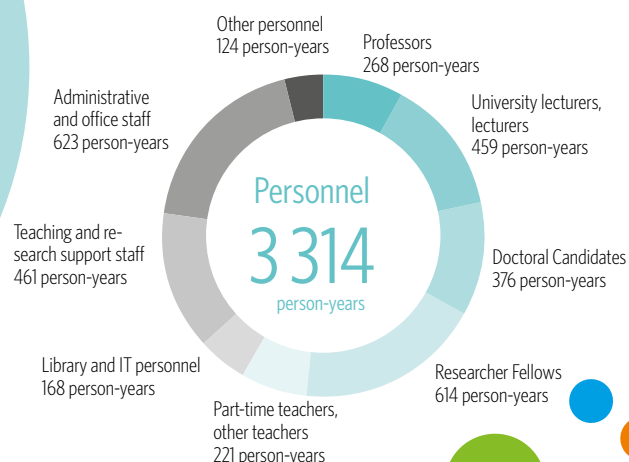
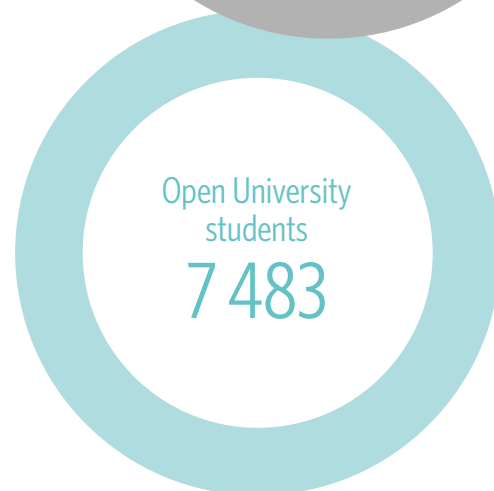
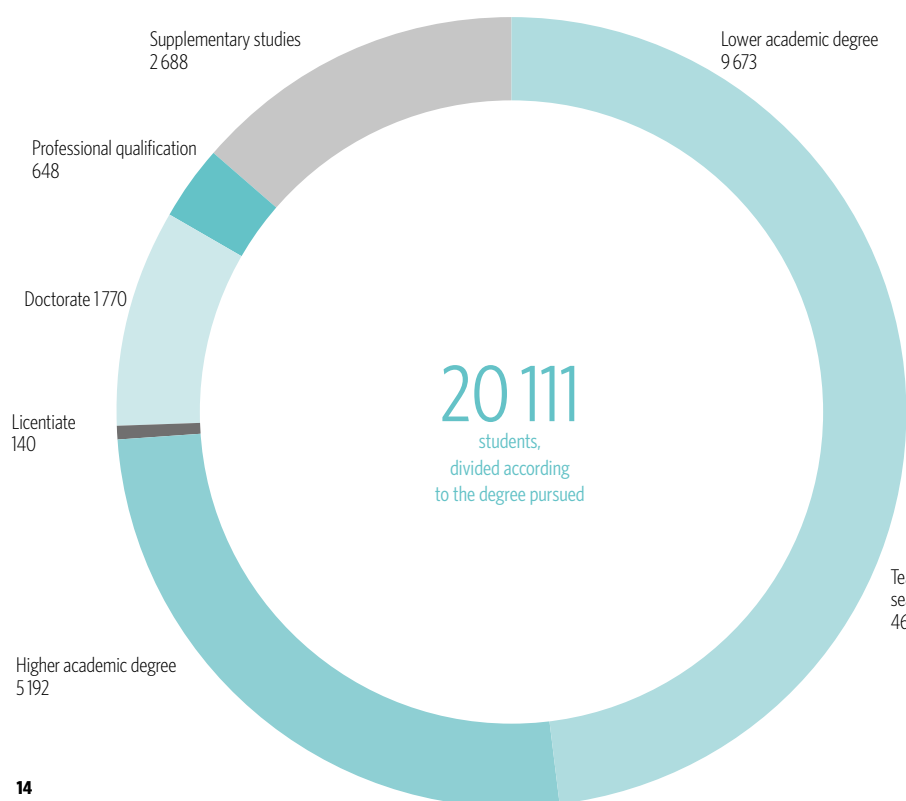
# THE COMMUNITY ON OUR CAMPUSES

The University of Turku is a community of over 3 000 people. Turku, Rauma and Pori all have their own campuses. With the administrative reform that started in 2012 the University succeeded in remodeling the structure of its staff: the proportion of the research staff increased and administrative staff decreased.



## HR EXCELLENCE IN RESEARCH

The European Commission awarded the University of Turku with the right to use the HR Excellence in Research logo. The logo reflects the University's commitment to the continuous development of its researchers' position and to offering a supportive and equal working environment.



In the international QS  
World University Rankings,  
the University reached  
**205<sup>th</sup>**  
place

Philosophy and psychology  
among the best  
**101-150**  
subjects.  
Ranking  
**151-200**  
for pharmacology, education, medicine and  
natural sciences as well as in language and  
translation studies and law.

### Undergraduate Student Feedback Survey Reveals Strengths

According to the undergraduate student feedback survey, over 90% of the undergraduate students enjoy studying at the University of Turku. The survey was carried out for the first time in 2013.

The students of the Faculty of Medicine identified themselves most strongly with the University. The most purposeful about their studies were the students of the Faculties of Social Sciences and Law.

Over 85% of the respondents felt that they could easily find support and information about their studies. Nearly the same number agreed with the statements "I'm satisfied with my studies" and "the education is of high quality". About 65% felt that they have enough time for self-directed studies.

In future, the survey will be carried out every six months. The feedback will be helpful in the development of the operations and will affect the amount of funding the University receives from the government.

**83 %** of the students  
were satisfied  
with their  
studies.



## New Professors of the University of Turku in 2013

### Indefinite period

- DMedSc **Juha Grönroos**, Gastroenterological Surgery (30%)
- DMedSc **Ilkka Julkunen**, Virology
- LLD **Reijo Knuutinen**, Commercial Law
- PhD **Kalevi Kokko**, Materials Physics
- PhD **Hille Koskela**, Geography
- LLD **Seppo Koskinen**, Labour Law
- DMedSc **Matti Laato**, Urology (30%)
- PhD **Eila Lindfors**, Technology Education
- DMedSc **Heikki Minn**, Clinical Oncology
- DMedSc (honorary) **Ilkka Mononen**, Clinical Chemistry (33.33%)
- SocScD **Leo Nyqvist**, Social Work
- PhD **Hannu Oja**, Statistics
- DMedSc **Ville Peltola**, Department of Infectious Diseases (30%)
- DMedSc **Jaakko Pulkkinen**, Otorhinolaryngology - Head and Neck Surgery (30%)
- PhD **Eevi Rintamäki**, Molecular Plant Biology
- PhD **Harry Silfverberg**, Didactics of Mathematical Subjects
- Ph.D. **Jukka Snell**, European Law
- DMedSc (honorary) **Andre Sourander**, Child Psychiatry
- DDenSc **Leo Tjäderhane**, Cariology
- DSc **Mika Vaihekoski**, Financing
- PhD **Rami Vainio**, Experimental Space Physics

### Five-year period

- LLD **Anne Alvesalo-Kuusi**, Sociology of Law (50%)
- DScHum **Petri Tapio**, Futures Research
- PhD **Baoru Yang**, Food Development

Some professors have also been employed for a period of less than five years

# INDEPENDENT UNITS FOUND THEIR NEW PLACES

In 2013, the future of the independent units was strongly invested in by examining the operations of each unit and considering whether a different kind of organisation would work better than the existing one. After the changes were made, the operations of the independent units – teaching, research and development – continues in a larger scale and more effectively than before, but organisationally the number of the units decreased from 12 to 7.

Year 2013 was significant for us because...

## **Business and Innovation (BID) Centre**

... BID managed to successfully expand its operations both nationally and internationally. The joint technology and business projects also progressed in leaps and bounds. Innovations were the central and successful focus of the Centre.

*Antti Paasio, Director*

## **Brahea Centre for Training and Development**

... we prepared to operate in the new, more versatile Independent Unit. The Centre actively took part in developing the national system of continuing studies for the academically educated and in establishing the recognition of prior learning and skills in the syllabi of the institutions of higher education. The Open University remains popular: over 7 000 students completed over 40 000 credits, which is more than 200 Bachelor's degrees.

*Kari Seppälä, Director*

## **Centre for Maritime Studies**

... our operations expanded to Oulu with new cooperation with the University of Oulu and local businesses. We used our expertise in maritime education and studies to support the development of the research of northern regions and arctic operational environments. In 2013, our research and training projects produced results; for example, the Centre participated in an extensive, EU-wide project that researches the efficiency and impact of harbours.

*Anne Erkkilä-Välimäki, Director*

**Combined into the Brahea Centre of University of Turku at the end of the year.**





### Functional Foods Forum FFF

... our researchers published their remarkable scientific findings on taste genes, food, cancer and health as well as on microbes of the bowel in the best scientific journals. We took part in organising the international *Non-Wood Forest Products, Health and Well-being* conference. We promoted food export by organising a Roadshow in China and Russia. The unit at Seinäjoki realised multidisciplinary KUMU-RU-project that combined culture, music and food.

**Seppo Salminen, Director**

### Language Centre

... we published our first electronic journal *Kielikeskus tutkii*. We are preparing for a move as, after spending years in several different buildings, we finally got facilities from Natural Science Building II which is currently being renovated. In 2013, our proofreading service for young researches had their 100th client.

**Michael Nelson, Director**

### Finnish Centre for Astronomy with ESO

... we played a big part in organising the biggest yearly European conference of astronomy and space science, EWASS, in July 2013 at Logomo, Turku. Over 600 researchers from 50 countries participated in EWASS, making it the largest conference of astronomy ever held in Finland. The programme included 25 symposiums and special sessions and meetings of European associations. EWASS was a unique way to present Finnish research on astronomy as well as the ESO Centre, the University of Turku and the City of Turku on a European and worldwide scale.

**Juhani Knuuti, Director**



### Finland Futures Research Centre FFRC

.... the University of Turku decided to establish a unit of futures research at Turku School of Economics from August 1, 2013, onwards. At the same time, FFRC was transferred to Turku School of Economics as a part of the administrative reform of the University. These decisions substantiate the teaching and the basic research of the FFRC. The possibility to write a doctoral dissertation in futures research is an internationally significant opportunity as well.

**Juha Kaskinen, Director**

### Research Unit for the Sociology of Education RUSE

... the Nordic cooperation in the research of higher education was strengthened as the three-year joint project funded by NordForsk started. RUSE organised a two-day conference for the *Nordic Fields of Higher Education* network in Turku. Through additional funding, the Ministry of Culture and Education reasserted RUSE's position as the producer of quantitative research results which function also as evidence base in education policy. RUSE started a new cooperation with the Finnish National Board of Education in digital learning.

**Osmo Kivinen, Director**

### Turku PET Centre

... the Academy of Finland chose Turku PET Centre as the Centre of Excellence in cardiovascular and metabolic research for the period of 2014–2019. In addition, the University of Turku and Åbo Akademi University promised funds for the procurement of a new cyclotron, which is a prerequisite for the function of the Centre. After this, we received the remaining funding that we needed and the high-quality research can continue in the future.

**Jari Kotilainen, Director**



### Centre for Environmental Research

.... the building microbiology laboratory of the Aerobiology Unit passed the evaluation of Finnas. Therefore it continues to have Evira's approval as a laboratory intended for carrying out research on health and living for health care officers according to the Health Protection Act 49 a §. At Kevo, the researchers measured the longest growing season and warmest summer since the project started in 1957. After many years, the Archipelago Research Institute managed to turn its unprofitable operations into a slight profit.

**Ilppo Vuorinen, Director**

### Turku Centre for Biotechnology

... we exceeded our research goals in the number of published articles and dissertations. Our researchers received national and international funding, for example a large grant from the Finnish cancer association and JDRF grant from the United States. Two gifted group leaders established their own research groups. Biocenter Finland and Åbo Akademi University evaluated our operations giving us excellent assessments, and the University decided to continue to give funds for hiring personnel for the central administration of the Centre. The Central Animal Laboratory became part of the Faculty of Medicine. From our initiative, the University organised an English executive training programme that aims at increasing well-being at work.

**Riitta Lahesmaa, Director**

### Turku Centre for Computer Science TUCS

... the Doctoral Programmes of the University began. These replace the previous doctoral programmes funded by the Ministry of Education and they ensure the continuation of doctoral studies.

**Johan Lilius, Director**

# STRONG FINANCES AND RENEWING CAMPUS

The financial statement of the University was 7.3 million euro in surplus in 2013. At the end of the year, both the liquidity and self-sufficiency of the University were on an excellent level. To safeguard its strong economy, the University continued the reform of the administration and service structures that began in 2012.

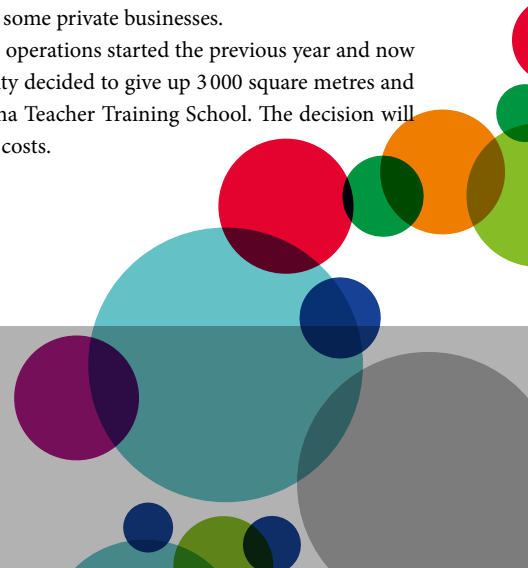
## Renovated Facilities Natural Science Building II and Teutori

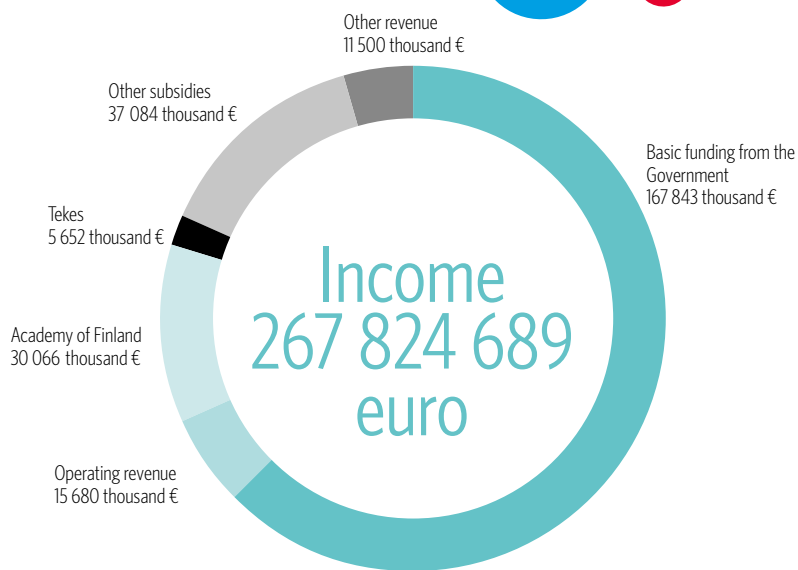
The renovation of the Natural Science Building II started in full force in October. The new Teutori building, a joint project with Turku University Foundation, was completed during the summer and the complete renovation of the adjoining part, which will provide more space for the Teutori building, started in the autumn.

It is estimated that the renovation of the Natural Science Building will be completed at the end of the year 2015. Teutori will be in the full use of the University by July 2014.

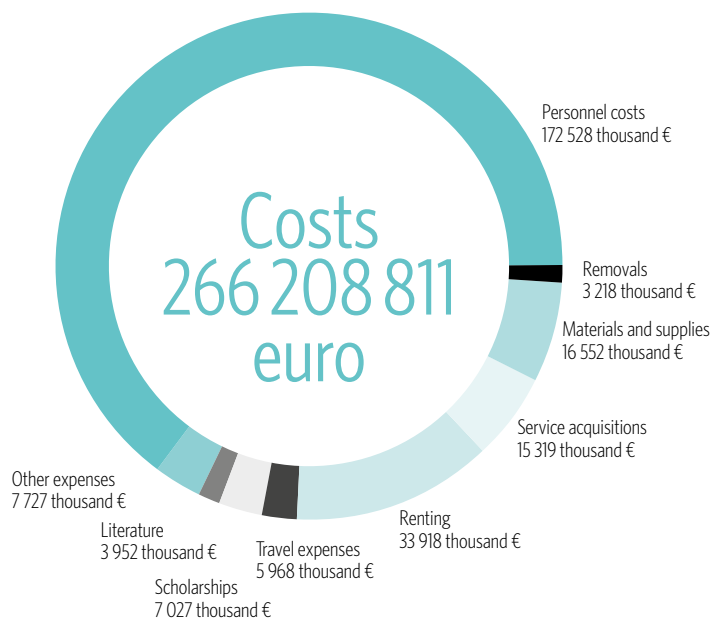
The University Board decided to move forward with the new building for the Faculty of Medicine. A new Medisiina D building is planned to be built at Kupittaa and it is for the use of the University, the Hospital District of Southwest Finland, the National Institute of Health and Welfare, Turku University of Applied Sciences and possibly some private businesses.

The project of directing funds from facilities to operations started the previous year and now began on the Rauma campus as well. The University decided to give up 3 000 square metres and enhance the collective use of space with the Rauma Teacher Training School. The decision will save the University 400 000 euro in the yearly rent costs.





**+0.7%** increase in funding



**29** new invention disclosures

**14** new patents

# HIGHLIGHTS OF THE YEAR 2013



## January

The Departments of Chemistry, and Physics and Astronomy participated in building a new measuring system for the Finnish-Estonian MAX IV Laboratory of synchronous radiation. Professor of History **Kirsi Vainio-Korhonen** received the Science Book of the Year Award for her book *Ujostelemattomat*. Professor of Molecular Plant Biology **Eva-Mari Aro** (pictured here) was chosen as the Professor of the Year. A research from Turku revealed that gout is hereditary. The University of Turku and Fudan University initiated a joint engineer education programme. Professor **Esko Valtaoja's** *Kaiken käsikirja* received the Lauri Jäntti Award.

## February

The University decided to double the intake of students to the Department of Social Work. Researchers from Turku found a way to make cancer cells that resist treatment dormant. The Universities of Turku and Tartu initiated a series of public lectures. Convention Director of Turku Touring and Master of Philosophy **Sari Ruusumo** (pictured here) was chosen as the Alumna of the Year.



## March

The new national science, art and culture funding organisations database Aurora was opened and it is based on the databases of the University of Turku and the Council of Finnish Foundations Association. The Turku Clinical Biomaterials Centre developed a filling composite that is stronger than dentine and it was chosen as one of the world's most innovative new products. **Juho Terrijärvi** who studied biotechnology at the University of Turku received the 2013 Arenberg-Coimbra Award.



AURORA



## April

With 18 000 applicants, the University of Turku was the second most popular university in Finland. The researchers of the University of Turku and Åbo Akademi University developed a chemical composite that is an allergy vaccine booster. Museum Manager **Ilari E. Sääksjärvi** of the Zoological Museum was chosen as the Docent of the Year of the universities in Turku. An innovation camp for the academic students of the region was organised at the University (pictured here). The research on justice through education policy received a Nordic centre of excellence funding. Institutions that organise education in the Turku region established the biggest educational export consortium in Finland, FinnWayLearning. The Finnish Academy of Science and Letters included professors **Iiro Honkala**, **Erkki Korpimäki**, **Seppo Salminen** and **Jorma Toppari** as members of its Section of Science and professors **Marja-Liisa Helasvuo** and **Marja Vauras** as members of the Section of the Humanities.



## May

The main mirror of the Herschel satellite, which was cut at Tuorla Observatory, gathered more accurate information than expected. Researchers from Turku together with their colleagues from the United States found a new gene that causes osteoporosis. European Society of Cardiology gave an award to Postdoctoral Research Fellow **Johanna Silvola** of the PET Centre. The first Science Slam – an event that popularises science – was organised at the University. The University of Turku and Translational Health Science and Technology Institute of India founded a joint diagnostics centre. A total of 112 doctors and 13 honorary doctors were promoted.

## June

The Academy of Finland named **Eva-Mari Aro's** integrative photosynthesis and bioactive compound and **Juhani Knuuti's** cardiovascular and metabolic research units as its Centres of Excellence. Eva-Mari Aro and **Sirpa Jalkanen** were appointed as new Academy Professors. The universities of Turku, Tampere and Eastern Finland established an education export company. The first students of the Bio Imaging Master's Degree Programme graduated. The University decided to open 100 new doctoral trainee positions. The European Commission gave the University the status of excellent employer. The institutes of higher education in Turku started a co-operation with the Russian Skolkovo Institute of Science and Technology. Children's University organised science camps.



## July

Over 600 European astronomy and space physics researchers came to the EWAS conference in Turku. The university researchers found a new species of hymenopteran from the Turku region and it was named *Cotesia autumnatae* (pictured here). Hundreds of children participated in the Children's University summer camps and learned about science. The new building Teutori was put into operation.



photo: Ilari E. Sääksjärvi

## August

A study module in sustainable development was added to the syllabus. Professor **Pirjo Nuutila's** research group found a new type of diabetes. The Futures Research Centre was transferred to Turku School of Economics and can now also offer postgraduate degrees. Sanako Plc donated remote laboratories in London and Barcelona to the Department of Phonetics. Over 288 researchers of consciousness gathered in Turku for the congress of Society of Anaesthesiologists. The Department of Physics was the first unit in Finland to offer *fast track* Master's degree education where students can graduate in three years.



Photo: Viliina Toivanen

## September

The ruins of the oldest religious building in Finland were found at the excavations of the Department of Archaeology at Kaarina. The professor of Criminal Law **Jussi Tapani** was chosen as the Teacher of the Year; the Faculty of Medicine's introduction to clinical skills, where more experienced students help the new students, was chosen as the Course of the Year. The School of Economics joined the Principles of Responsible Management Education programme of the UN. Two projects at the University received benchmark funding: biosciences and education of digital culture. **Olli Carpén** (pictured here) was chosen as the first Professor of Biobank in the Nordic Countries, the professorship was donated by the City of Turku. Medical Counsellor **Sakari Alhopuro** donated a three-year professorship of health and economics to Turku School of Economics and Faculty of Medicine. The John Morton Centre, which researches North America, was established at the University.



Photo: Hannu Aaltonen





## October

The multilingual and international University of Turku and the joy and benefits of language skills were celebrated on the European Day of Languages. The Life Science MBA programme was established for Doctoral Candidates. The research unit of the languages in the Volga area published the first Finnish-Udmurt dictionary. The first Science Days organised by the University of Turku and Åbo Akademi University reached 12 000 people in the region. The Technology Academy Finland gave the Millennium Distinction Award to Senior Research Fellow **Riikka Lund**. Academy Research Fellow **Kari Kalio** of the PET Centre received the 2013 Academy of Finland Award for the social reach of his research.

## November

Professor of Immunology **Sirpa Jalkanen** became a member of Academia Europaea. The Luma Centre operations that inspire children to study mathematics, natural sciences and technology became a nationwide operation. The information session for the parents of sixth-formers was a success.

## December

One of the key book of Western philosophy, **Immanuel Kant's Critique of Practical Reason**, was translated into Finnish for a first time by researchers at the Department of Philosophy. The University Board decided to move forward with the plans for the Medisiina D building. The University celebrated the use of Finnish Language in the Parliament for 150 years by organising a seminar. Professor of Media Studies **Jukka Sihvonen** and Professor of French Translation and Interpreting **Yves Gambier** were appointed as members of the Finnish Society of Sciences and Letters.



photo: Schauman Arkitehti Ltd



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