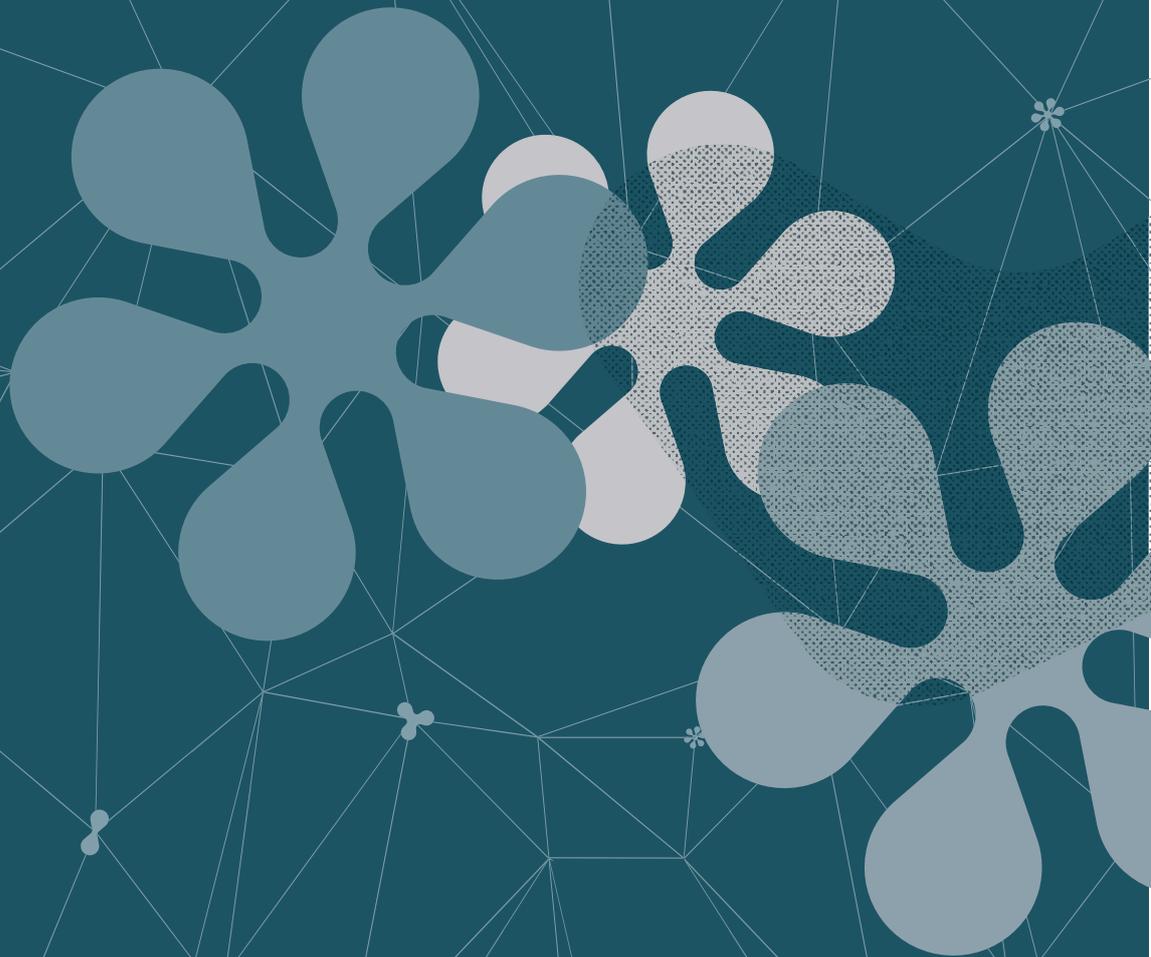




University  
of Torino

A guide to  
discover UniTo

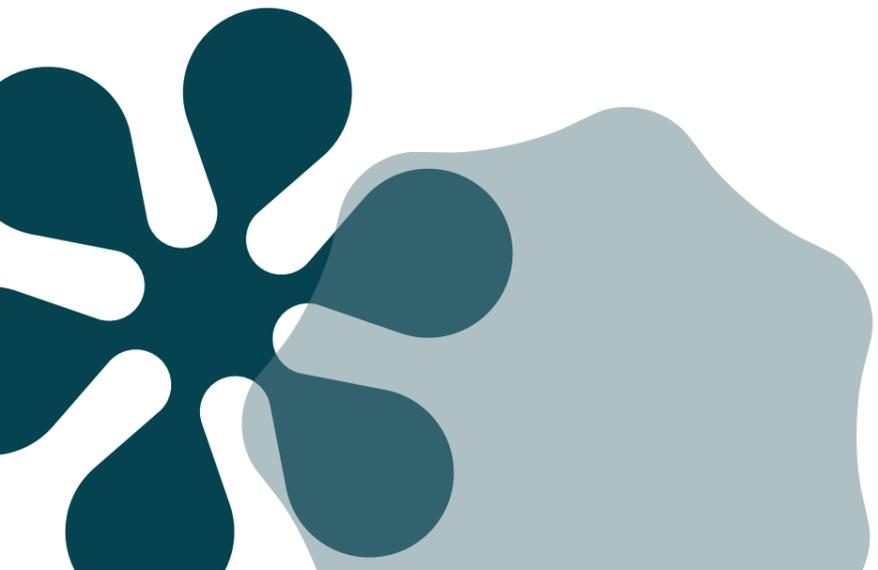




**University**  
**of Torino**

At the heart  
of Europe

Torino



With about 74,000\* students and about 3,700\*\* academic and administrative staff, the **University of Torino (UniTo)** in north-west Italy is one of the country's largest and most prestigious universities.

The university, founded in 1404, provides quality higher **education and research** opportunities; many **UniTo** graduates have achieved international renown.

Today, the University of Torino offers over 150 undergraduate and graduate degree programs in almost every field of study. A growing number of programs are taught in English, and Italian language tuition is available for incoming students.

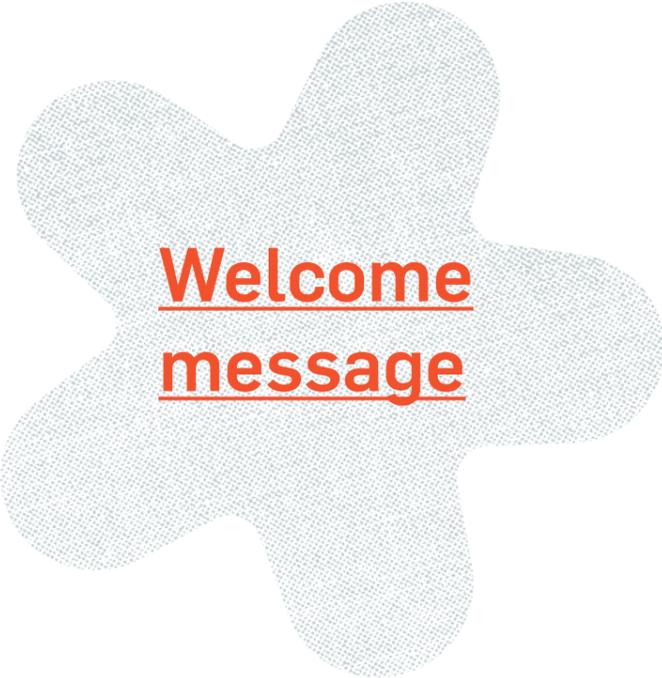
The university's 27 **departments** offer excellent opportunities for Italian and non-Italian academic staff; **doctoral school** provides more than 30 doctoral programs.

International and local funding programs, both public and private, support the university's commitment to innovation and research.

**UniTo** is extremely aware of its role in the local community, promotes knowledge transfer to industry through patent licensing and spin-offs, and engages publicly with science, respecting economic, social and **environmental sustainability**.

\* In a.y. 2017-2018

\*\* At 31<sup>st</sup> December 2017



## Welcome message

About 4,400 international students and more than 600 agreements with other universities all over the world enhance **UniTo's** international dimension.

Students and academic staff can make use of 22 **libraries** with about 2 million books and full access to the web, the Botanical Garden and a number of university museums; university accommodation, university canteens, and well-situated sports **facilities**.

Torino is a **lively, people-oriented city** and boasts a wide variety of cultural resources: historic buildings, world-class museums and galleries, as well as numerous exhibitions and fairs. The city's parks and 2 rivers together with the nearby mountains and lakes provide a great leisure environment.

# The University of Torino: a 600-year history



**1506**  
**Erasmus of Rotterdam** graduates in Torino



**1796**  
**Amedeo Avogadro** graduates in ecclesiastical Law

**1404**  
The University of Torino is founded

**1729**  
The “College of Provinces” is founded: one of the first university halls of residence for students in need

**1801–1814**  
The Napoleonic Empire establishes the 5 Faculties of Theology, Law, Medicine, Science, and Literature; a Rector heads the University

**1861**  
Unification of Italy: Torino is Italy’s first capital. 5 Faculties: Theology, Law, Medicine, Mathematics, Physics & Natural Sciences, and Literature & Philosophy. A Special School for Engineers is founded



**1895**  
**Luigi Einaudi**, future President of Italy, graduates in Law



**1911**  
**Antonio Gramsci** enrolls at the University of Torino

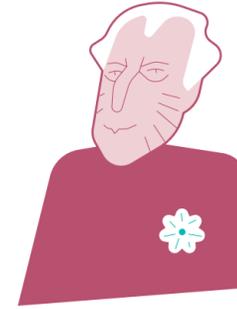


**1931**  
Academic staff are obliged to join the Fascist Party: 12 refuse and an Anti-Fascist movement develops at the University. **Norberto Bobbio** graduates in Law

**1918**  
Giuseppe Saragat, future President of Italy, graduates in Economics



**1939**  
World War II begins; Gleb Wataghin is professor of Physics at UniTo



**1943**  
Armistice between Italy and the Allies; **Giovanni Agnelli**, future head of FIAT, graduates in Law



**1952**  
Tullio Regge graduates in Physics

**1982**  
The Faculty of Psychology opens

**1997**  
The Faculty of Foreign Languages & Literature opens

**2012**  
The Luigi Einaudi Campus opens, classed as one of the world’s 10 most spectacular university buildings

**1436**  
3 Faculties: Theology, Arts & Medicine, and Law

**1739**  
The University Museum opens

**1720**  
The University moves to its current central location, in Via Po. An Italian Rhetoric course is started

**1800**  
The Faculties are replaced by 8 special schools: Chemistry, Surgery, Fine Arts, Law, Medicine, Physics & Mathematics, Literature and Veterinary Medicine

**1817–1818**  
A Political Economics course is established and the School of Veterinary Medicine opens in Venaria Reale

**1893**  
A Political Economics research centre opens; the University of Torino is now the 2<sup>nd</sup> largest in Italy

**1899**  
FIAT’s automobile factory is opened in Torino

**1905–1908**  
The first Psychology course in Italy starts, led by Fredrich Kiesow; the Institute for Medieval and Modern Art History and the Institute for Archaeology are founded

**1915**  
Italy enters World War I; Palmiro Togliatti graduates in Law



**1930**  
Cesare Pavese graduates in Literature

**1935–1936**  
The Economics and the Agriculture Faculties are set up; future Nobel Laureates Salvatore Luria, **Rita Levi Montalcini**, and Renato Dulbecco graduate in Medicine & Surgery

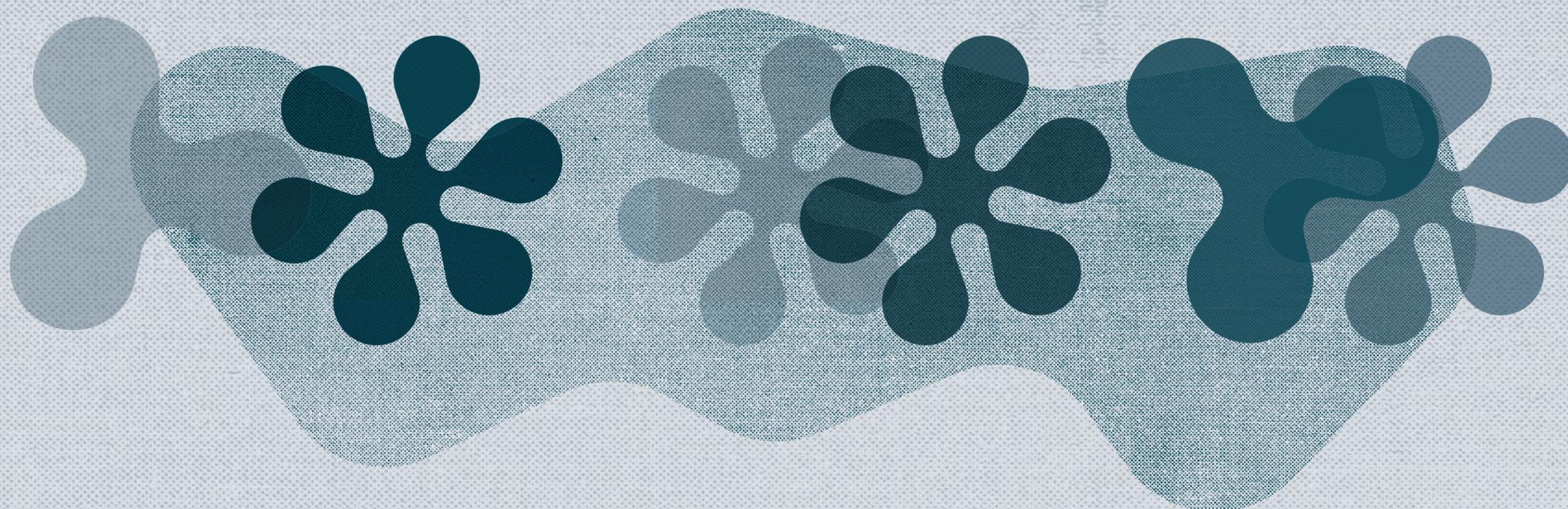
**1941**  
**Primo Levi** graduates in Chemistry; Fernanda Pivano in Literature

**1954**  
**Umberto Eco** graduates in Philosophy

**1969**  
The Faculty of Political Science opens

**1985**  
UniTo and the French University of Savoy set up the first double degree program

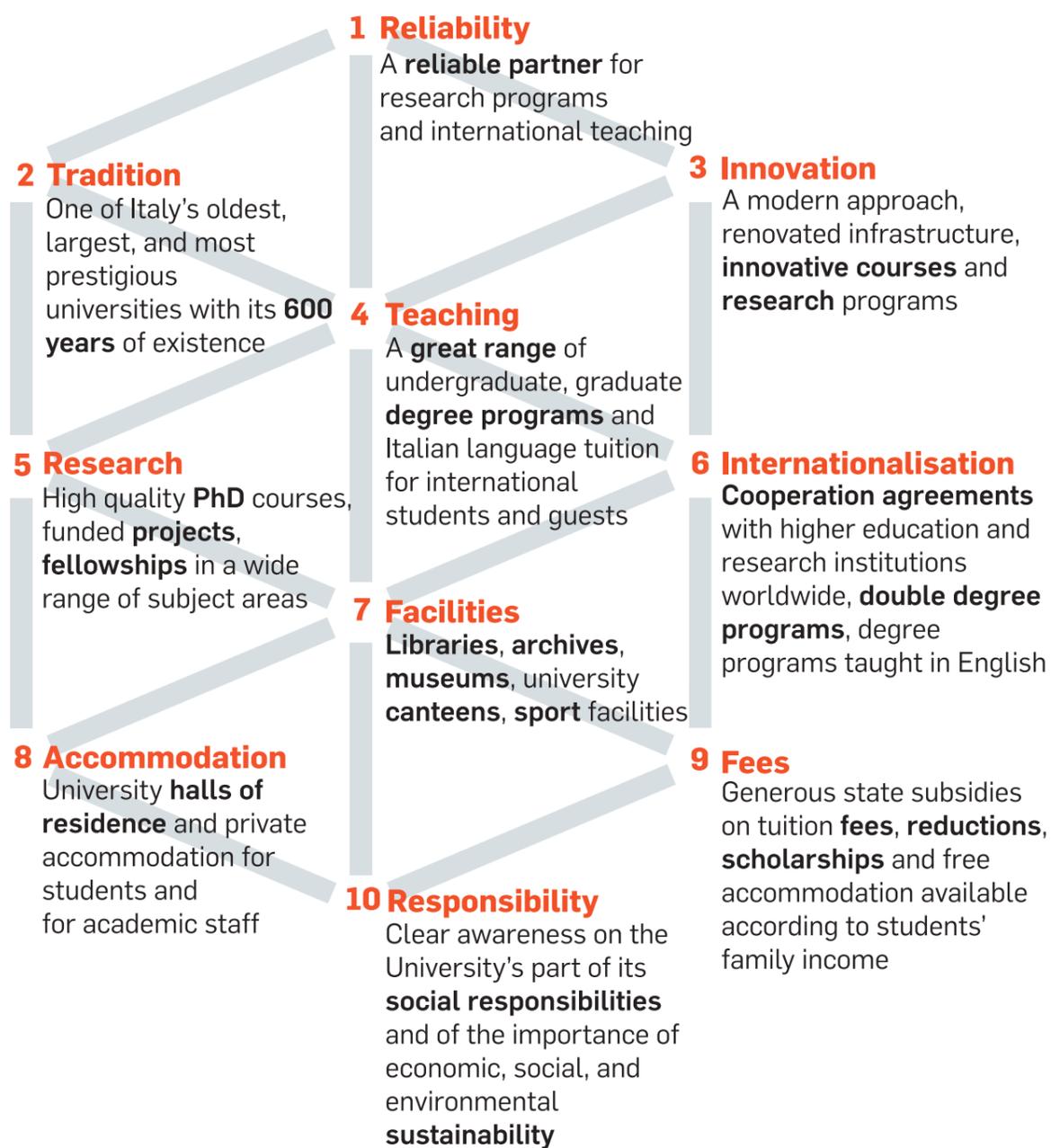
**2004**  
The University of Torino celebrates its 600th anniversary



## Table of contents

10 reasons for choosing UniTo.....	12
Research, teaching and third mission.....	13
UniTo and the international dimension.....	14
Sustainability.....	16
Museums and collections.....	17
Sport at the University.....	18
The Italian academic system.....	19
27 UniTo departments in 4 study areas.....	20
1. Arts and humanities.....	22
2. Economic, juridical and social sciences.....	28
3. Life sciences and medicine.....	36
4. Natural sciences and technology.....	46
PhD programs.....	51
The city of Torino and the Piemonte Region.....	54

## 10 reasons for choosing UniTo



## Research, teaching and third mission

**3<sup>rd</sup>** among the **largest Italian Universities** for research\*

**23** (out of 27) **top ranking Departments** for scientific research in Italy\*

Over **40,500** **scientific publications** from 2013 to 2017

Over **600** **research projects** managed per year

The **only** Italian University in the **EU Knowledge and Innovation Community EIT Food**

About **74,000** **students** in a.y. 2017-2018

Over **12,000** **graduates** per year

About **4,400** **international students** in a.y. 2017-2018

**1<sup>st</sup>** University in Italy for **public engagement**\*

\*Italian Quality Assessment of Research (VQR) 2011-2014

## UniTo and the international dimension

### Cooperation agreements

UniTo cooperates with international universities and institutions to develop joint research and education activities and foster professor and student exchange programs. UniTo is involved in **over 600 formal agreements with universities in about 100 countries** all over the world and in several international networks.

### International mobility for students

UniTo promotes several initiatives to foster student mobility through specific programs: **Erasmus+ mobility for exchange students and traineeship** with EU and partner countries (**over 1,000 agreements**), **student exchange** with partner universities worldwide, **over 20 double/joint degree programs** in Europe and outside Europe. PhD students at UniTo can develop their **doctoral thesis in joint-supervision with international partners** from all over the world.

### International teaching

Fostering the internationalisation of teaching is a strategic target for the University of Torino, currently offering **15 undergraduate and graduate degree programs taught in English** and over **700 single courses** in English and in other European languages, involving visiting professors from all over the world.

### Development cooperation

UniTo promotes **exchange programs, research activities and courses on sustainable development** in partnership with Italian and foreign universities to support developing countries in strengthening sustainability, human rights and peace. As best practice, “**Progetto Uni.Coo**” involves students in development cooperation projects in Africa, Asia and Latin America.

### Université Franco-Italienne

UniTo hosts the secretary of the Université Franco-Italienne, a bi-national institution funded by the Italian and French Ministries of Education for the promotion of academic and scientific cooperation between Italy and France.

### Confucius Institute

Established in 2008 by UniTo in cooperation with the East China Normal University of Shanghai, the **Confucius Institute** offers Chinese language courses and promotes cultural events to boost educational, scientific and cultural ties with China.

For further information:  
[en.unito.it](http://en.unito.it) » International relations

# Sustainability

## Our commitment to social responsibility

The University of Torino is proud of its sustainability efforts and is seriously committed to contributing to the **sustainable development** of society.

A **positive social and environmental impact** is an organisational challenge to be faced internally and externally, through partnerships with stakeholders on both local and global levels.

In the last few years, UniTo has committed itself to sustainability and has edited annual sustainability reports in accordance with international standards. UniTo has gained a role in international and national associations for universities and sustainability. Among the initiatives, the hosting of the **UNESCO Chair for Sustainable Development** is an honour and a privilege for UniTo.

The commitment towards sustainability is reflected in our **teaching activities**, **research projects** aimed at creating long-term positive outcomes, as well as, in **third mission** through knowledge transfer.

## Economic sustainability

Employing around **3,700 human resources** and with an economic value of **460 million euros**, UniTo is closely connected to the local community. A broad range of partnerships with local and international organisations reinforces UniTo's dimensions, both international and civic. Ethical and sustainable procurement is a key issue for UniTo.

## Social sustainability

UniTo is committed to improving the employment opportunities for students by offering study programs meeting the needs of labour markets and by providing **tutoring and placement services**. As a result, UniTo is one of the top universities in terms of students' employability rate (according to national assessments).

At UniTo, **gender equality** is reflected in all the careers stage at all levels.

To guarantee fair and equal access to higher education studies, UniTo has adopted a policy of **full inclusion for disabled students**, and students in financial need are provided with economic support and/or reduced admission fees. **International students** benefit from dedicated services – Italian language tuition, assistance in finding accommodation, reduced tuition fees according to family income and scholarships – to help them settle into their new life at the university and in the city.

## Environmental sustainability

The **UniTo Green Office** is the hub that coordinates, plans and promotes all the initiatives dedicated to environmental sustainability at UniTo. Designed with a multi-stakeholder governance model, the UniTo Green Office works on several strategic assets such as: **Food, Mobility, Waste, Green Public Procurement** and **Energy**. Those interested in environmental responsibility are welcome to join the UniTo Green Office and its groups. For more information: [www.green.unito.it](http://www.green.unito.it)

The latest version of the **Sustainability Report - IT** - is published here: [unito.it](http://unito.it) » [Ateneo](#) » [Pianificazione e bilanci](#) » [Rapporto di sostenibilità](#)

A synthesis of 4 years of Sustainability Reports, **UniTo 4 Sustainability(2013-2017)** - *EN* - is published here: [politichediateneo.unito.it](http://politichediateneo.unito.it) » [Politiche di sostenibilità](#)

## Museums and collections

### Museums - Sistema Museale di Ateneo (SMA)

- Museum of Human Anatomy "L. Rolando" - Polo Museale del Palazzo degli Istituti Anatomici
- Museum of Criminal Anthropology "Cesare Lombroso" - Polo Museale del Palazzo degli Istituti Anatomici
- Museum of Anthropology and Ethnography - Polo Museale del Palazzo degli Istituti Anatomici
- Archives of Science and Technology - ASTUT

### Departmental museums and collections

- Botanical Garden
- Museum of Physics
- Museum of Veterinary Sciences
- Museum of Odontology

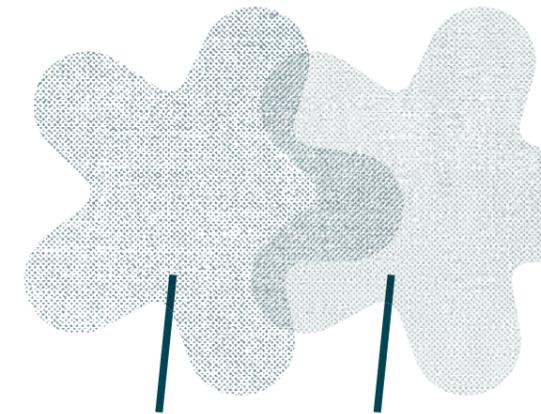
### Collections provided to Piemonte Region (Museo Regionale di Scienze Naturali)

- Zoology, Comparative Anatomy, Mineralogy, Geology, Paleontology

### University Historical Archives - Palazzo del Rettorato

For further information:

[en.unito.it](http://en.unito.it) » [About UniTo](#) » [Structures](#) » [University archives and museums](#)



## Sport at the University

### CUS Torino

The University Sports Centre (CUS Torino) aims at promoting competitive and non-competitive sports among students, teachers and employees at the University of Torino. It offers more than 100 different sports at all levels.

CUS Torino sports facilities are located in a number of sites in the city and in surroundings areas.

The CUS CARD is free for Torino University students, Erasmus students, teachers and employees. In addition, thanks to CUS Progetto Disabili, students with disabilities can enjoy all activities, using specially adapted equipment, under the presence of a qualified instructor.

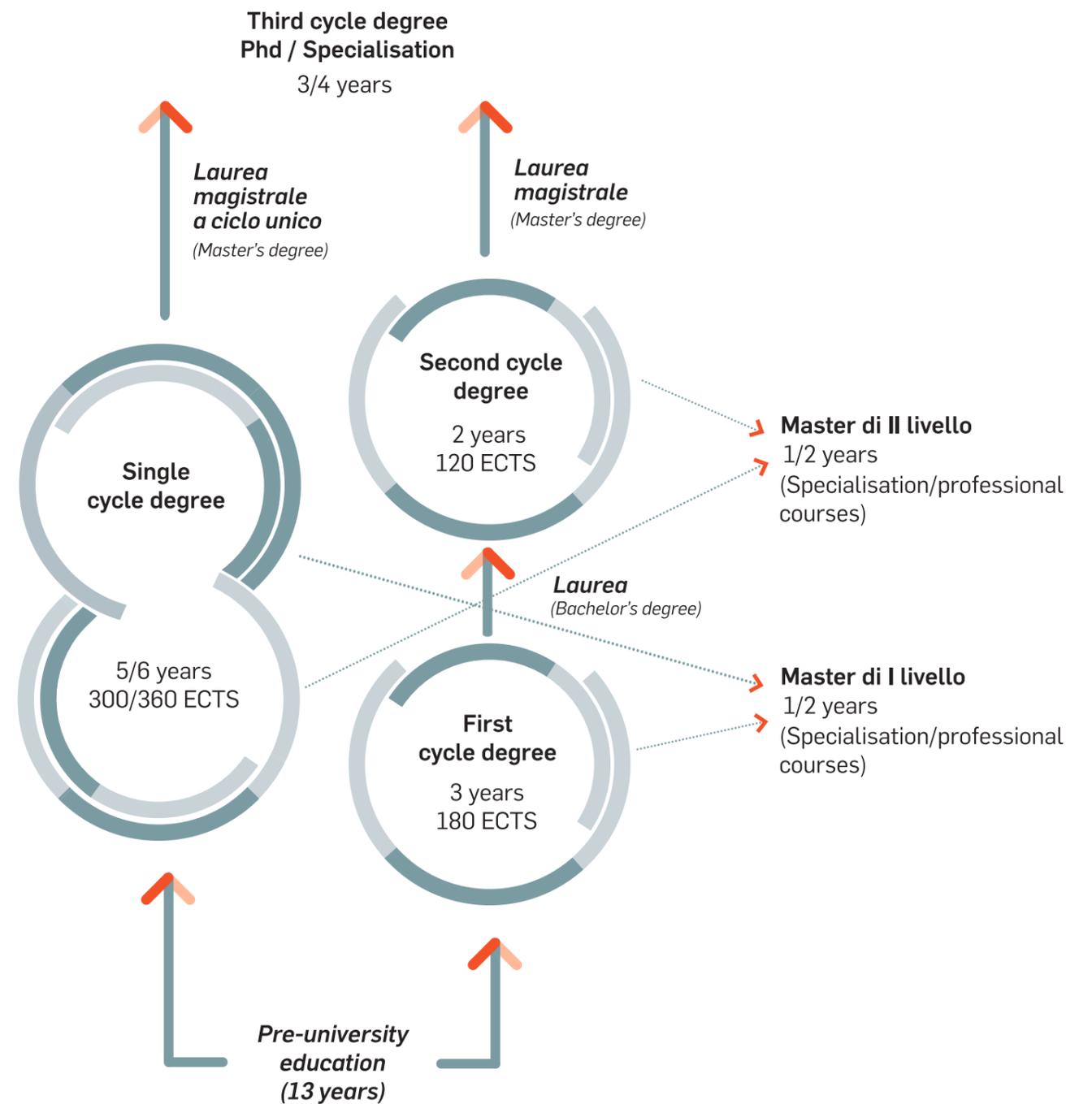
Torino's great location, close to mountains, countryside, rivers and lakes, provides an excellent environment for a wide range of sports and outdoor activities. Ski slopes and mountain walking trails are only an hour's drive away. Rowing, rafting and kayaking are very accessible: many of the city's rowing clubs, on the banks of the Po River, were founded over a century ago.

### SUISM - University Sport Service Centre

The SUISM Centre promotes the application of scientific research to sport; its services are intended for students and staff who wish to pursue careers in the field of sport. The centre manages the sports facilities associated with all sport-related courses in various departments.

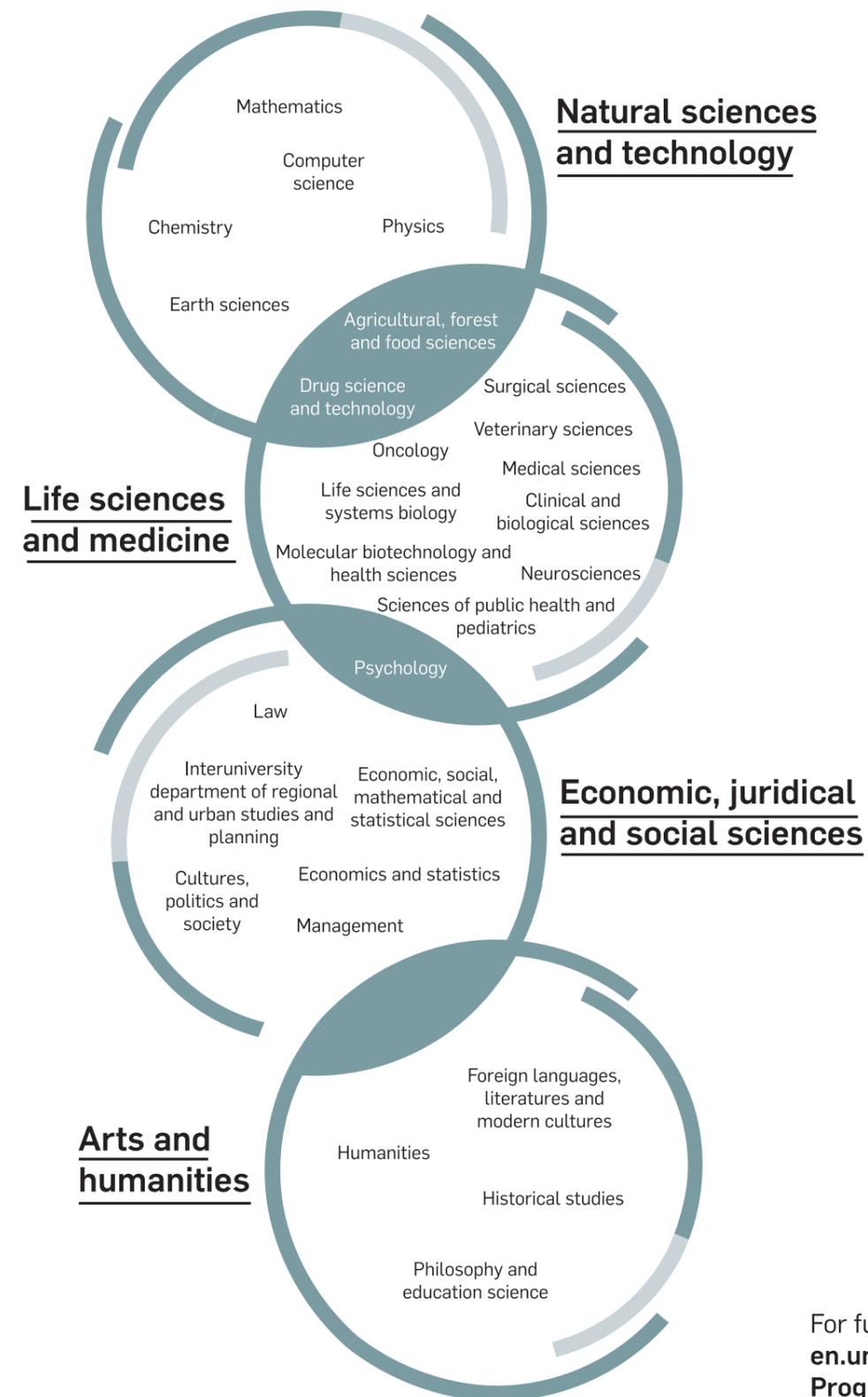
For further information:  
[en.unito.it](http://en.unito.it) » Living in Turin » When you arrive » Sport

## The Italian academic system



# 27 UniTo departments in 4 study areas

More than 150 Bachelor's and Master's programs



For further information:  
[en.unito.it](http://en.unito.it) » Studying at UniTo »  
 Programs » Degree programs



A large, modern building with a grid of windows and a prominent white number '1' overlaid on the left side. The building has a dark facade and many windows, some of which are reflecting the sky and surrounding environment. The number '1' is large and white, positioned on the left side of the building. The building is set against a clear blue sky. In the foreground, there are trees with green and yellow leaves, suggesting an autumn setting. The overall scene is bright and clear.

1

Arts and  
humanities

# dlin

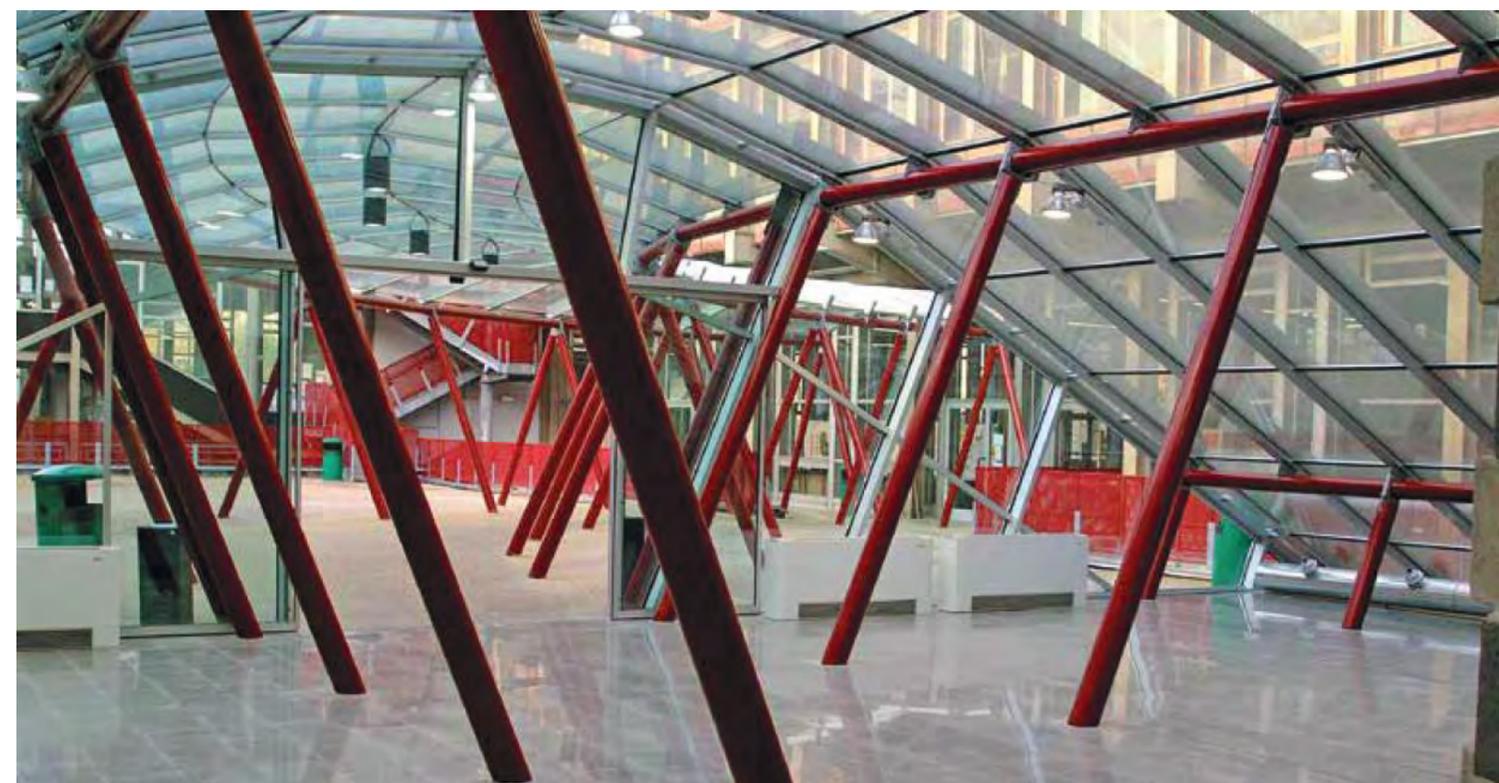
## Department of Foreign Languages and Literatures and Modern Cultures

The Department's teaching and research relate to Western and Eastern modern languages, with their literatures and cultures. Language-related basic, applied, and pedagogic research is carried out, and focus is given to forms of cultural expression in the countries studied. Courses provide students with the skills required for today's labour market.

### Main Research Areas

- Foreign languages
- European cultures
- International literatures

— [www.dipartimentolingue.unito.it](http://www.dipartimentolingue.unito.it)



# dss

## Department of Historical Studies

The Department takes a diachronic approach, from antiquity up to the present. Teaching and research explore a wide range of areas of historical studies, from archaeology to the history of religions, with a global reach covering the ancient Middle East, the Mediterranean area, the origins of Europe, the Americas, Asia and Africa.

— [www.dipstudistorici.unito.it](http://www.dipstudistorici.unito.it)  
— [conservazionerestauero.campusnet.unito.it](http://conservazionerestauero.campusnet.unito.it)

### Centre for Special Training in Conservation, Restoration and Valorisation of Cultural Heritage

— A joint project of the Departments of Historical Studies, Chemistry, Physics, Geolocial Sciences, Life Sciences & Systems Biology, and the School of Natural Science, with "La Venaria Reale" Foundation Centre for the Conservation and Restoration of Cultural Heritage.

### Main Research Areas

- Archaeology
- Geography
- Ancient history
- History of art
- Contemporary history
- Medieval history
- Modern history
- History of religions
- Cultural heritage



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# df e

## Department of Philosophy and Education

With academic staff from a range of fields including philosophy, education, communication studies and sociology, the Department offers a modern, interdisciplinary approach in teaching and research. Key areas in philosophy and education are studied with reference to their historical development and their influence on contemporary cultural discourse.

— [www.dfe.unito.it](http://www.dfe.unito.it)

### Main Research Areas

- Theoretical philosophy
- History of philosophy
- Education
- Media studies

# d s t

## Department of Humanities

The Department combines the Italian humanistic tradition in philology, literature, art and culture with an interdisciplinary approach, that includes modern teaching and research areas, such as Asian, African and Mediterranean studies, and media, music and performing arts. Teaching and research in Italian studies are carried out within the Department.

— [www.studium.unito.it](http://www.studium.unito.it)

### Main Research Areas

- Asian, African and Mediterranean studies
- Comparative studies in literature, art and culture
- Philology
- Italian studies
- Linguistics
- Media, music and performing arts



2

Economic,  
juridical and  
social sciences



# dcps

## Department of Cultures, Politics and Society

The Department's research and teaching focus on ways in which people build societies, organise and regulate social life, plan political institutions, and communicate with each other and by media and the web. A critical, interdisciplinary approach in the study of social relations, social structures, social identities and social phenomena is central to the Department's research programs.

— [www.dcps.unito.it](http://www.dcps.unito.it)

### Main Research Areas

- Sociology and social research
- Political theory and philosophy
- International relations
- Social and cultural anthropology
- Economic geography
- Economic sociology

# esomas

## Department of Economics, Social Studies, Applied Mathematics and Statistics

The Department adopts an interdisciplinary approach in analysing social and economic processes, with a focus on political economics, social sciences, statistics and mathematics. Programs relate to the areas of business management, financial and insurance institutions, public administration, the not-for-profit sector, and international organisations.

— [www.esomas.unito.it](http://www.esomas.unito.it)

### Main Research Areas

- Agent-based simulation for social science
- Empirical analysis of taxation
- Applied health economics
- Applied microeconomics
- Bayesian non-parametric methods
- The corporate finance of business groups
- Savings, heterogeneity and housing decisions
- Language and financial decisions
- Gender behavioural economics
- Health and human capital in the elderly

# dest

## Department of Economics and Statistics

A longstanding tradition in teaching economics and related areas is today combined with interdisciplinary studies involving sociology, politics, and law, and with an applied approach to contemporary topical issues. The Department's research projects focus on the economic and statistical aspects of social sciences, and explore new areas of study, such as complexity economics and happiness economics.

— [www.est.unito.it](http://www.est.unito.it)

### Main Research Areas

- Economics of innovation and science
- Environmental economics
- Labour, family and gender economics
- Public finance
- History of the economic thought and economic methodology
- Social statistics and demography



# dist

## Interuniversity Department of Regional and Urban Studies and Planning

The Department analyses the transformation and governance of regions in terms of their physical, economic, social, political, and cultural features, with a view to sustainability. The Department promotes, coordinates and manages research, teaching, technological transfer and services in the areas of science, of urban and regional policy, and of regional, urban, landscaping and environmental planning.

— [www.dist.unito.it](http://www.dist.unito.it)

### **Main Research Areas**

- Sustainability, habitability and governance of post-metropolitan regions
- Pervasive sensing and smart devices
- Zero energy buildings in smart cities
- Sustainable mobility information network for alpine areas
- Territorial approaches to new governance
- Adaptation to climate change, catastrophe prevention, agricultural development for food security
- Institutional capacity for regional development

# dg

## Department of Law

Founded in 1404, with the University, the Department has produced many renowned jurists, scholars, stateswomen and statesmen. The Department, although strongly grounded in tradition and experience, today takes a modern approach to private law, EU law, comparative law and related fields; it participates in numerous international exchange programs with leading research universities worldwide.

— [www.dg.unito.it](http://www.dg.unito.it)

### **Main Research Areas**

- Comparative law
- Criminal law
- Civil law
- International law
- Intellectual property law
- Information technology law



# dipm

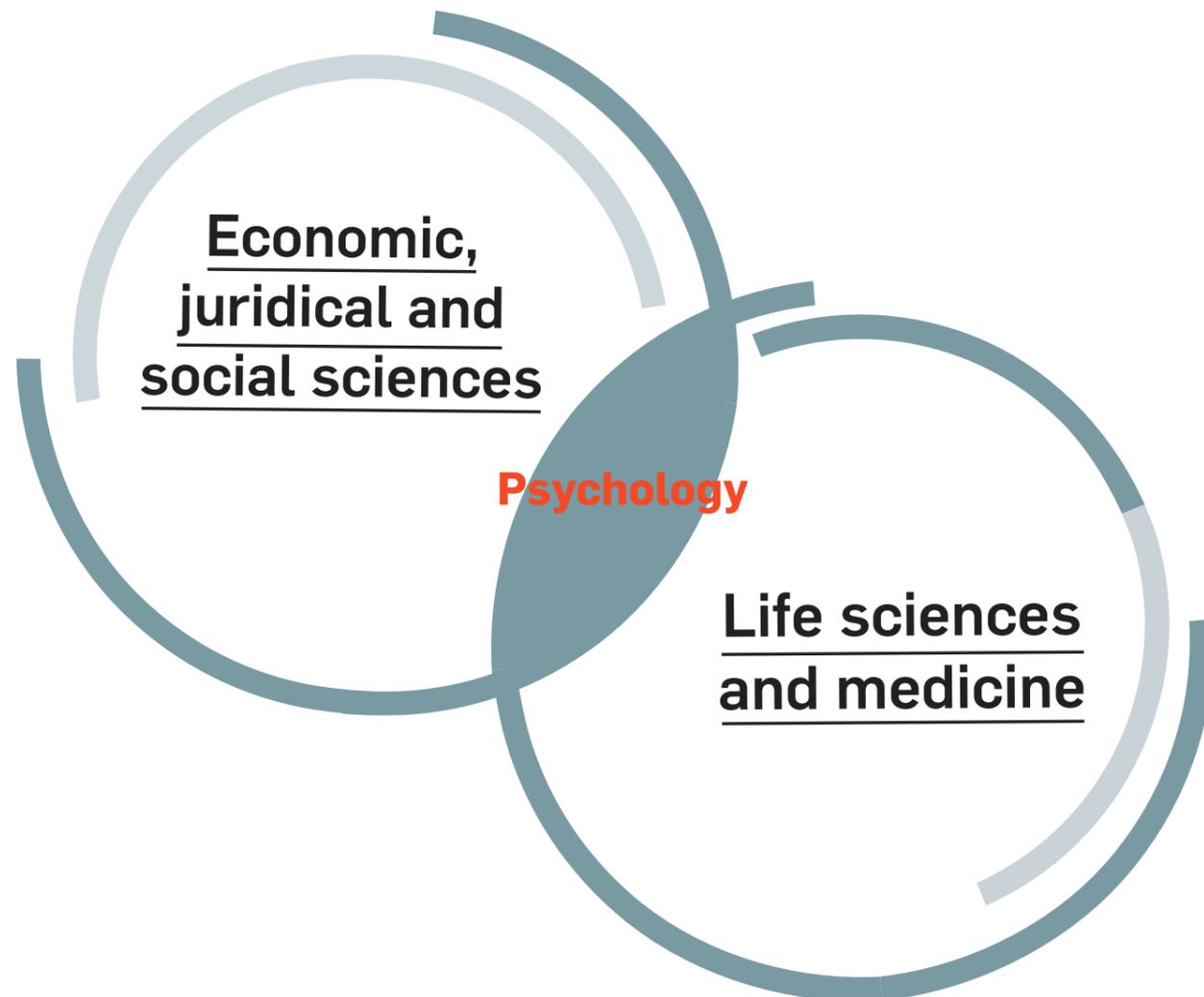
## Department of of Management

The Department's research focuses on corporate and institutional behaviour in economic decision-making and in business management. Key areas of departmental teaching and research are factor and output markets, strategies that companies adopt to meet their goals, collection of accounting information, and the structure of financial systems.

— [www.management.unito.it](http://www.management.unito.it)

### **Main Research Areas**

- Corruption and remedies
- Transparency and integrity in public authorities
- Business ethic
- Company taxation in UE and european competitiveness
- New european accounting strategy for corporations and SMEs
- Environmental management



# dpsi

## Department of Psychology

The Department's activity focuses on two main areas: applied laboratory research and specialist support provided to local services and their organisations. Special focus is devoted to clinical training of psychologists and research includes both traditional and new areas such as neuropsychology, neuro-imaging, wellbeing and work-family interface.

— [www.dippsicologia.unito.it](http://www.dippsicologia.unito.it)

### **Main Research Areas**

- Clinical neuropsychology and rehabilitation
- Human factors in technological innovation
- Intentionality and communication
- Neuro-imaging of the mind/brain system
- Validation and standardization of psychological tests
- Wellbeing and work-family interface





3

Life sciences  
and medicine

# dscb

## Department of Clinical and Biological Sciences

Located in modern premises within the *San Luigi Gonzaga* Hospital, the Department carries out basic and top ranked clinical research in areas ranging from cell biology to molecular biology. Further key research areas focus on the central nervous system, oxidative mechanisms, physiology and clinical pharmacology, regenerative medicine, nanotechnologies and genetic disease.

— [www.dscb.unito.it](http://www.dscb.unito.it)

### Main Research Areas

- Molecular and cellular biology
- Stem cells and regenerative medicine
- Metabolic diseases, rare diseases
- Neuroscience
- Health, society, clinical epidemiology and biostatistics
- Genomics and bioinformatics

# dbios

## Department of Life Sciences and Systems Biology

The Department carries out teaching and research in biology, environmental science and biotechnology, with special focus on areas such as biodiversity, ecology, evolution, conservation and microbiology. It coordinates its various research groups and manages research facilities such as the Botanical Garden and the Herbarium.

— [www.dbios.unito.it](http://www.dbios.unito.it)

### Main Research Areas

- Life and health
- Biochemistry and biotechnology
- Ecology and evolution

# dsm

## Department of Medical Sciences

The Department brings together multidisciplinary groups working on clinical, preclinical and basic research, in areas such as diagnosis, pathogenesis, physiopathology, genetics and therapy for systemic and organ-specific diseases. Research groups are committed to creating common funding projects and sharing technologies with industry.

— [www.dsm.unito.it](http://www.dsm.unito.it)

### Main Research Areas

- Translational and clinical research: pathophysiological mechanism of common and rare diseases, diagnosis and treatment
- Epidemiology and risk factors
- Transplants and regenerative medicine
- Innovative diagnosis and molecular imaging



# dbmss

## Department of Molecular Biotechnologies and Health Sciences

Departmental research focuses on molecular events underlying pathophysiological processes, and takes a translational medicine approach. Combining basic research and clinical research to develop translational paradigms, the Department seeks to develop advanced diagnostic technologies and innovative therapeutic strategies for clinical practice.

— [www.dbmss.unito.it](http://www.dbmss.unito.it)

### Main Research Areas

- Molecular and cellular mechanism of metabolic diseases, cardiovascular, oncologic and degenerative diseases
- Stem cells and regenerative medicine
- Computational genomics
- New diagnostic imaging technologies and advanced chemical methodologies
- Pre-clinical and clinical testing of new therapeutic protocols



# dns

## Department of Neurosciences

Research groups within the Department carry out research work in a wide range of areas, in particular neuronal plasticity, regeneration, endocrinology, and neuro-degeneration. The Department also provides healthcare science services in 3 clinics and in prestigious units in *Città della Salute e della Scienza*, Europe's largest medical centre.

— [www.neuroscienze.unito.it](http://www.neuroscienze.unito.it)

### Main Research Areas

- Micro- meso- and macro-connectomics
- Neurodegenerative diseases
- Psychiatric disorders
- Neurobiology of sexual dimorphism
- The placebo effect

# donc

## Department of Oncology

The Department, located in the *San Luigi Gonzaga* Hospital, focuses on preclinical, translational and clinical research in cancerous pathology. As a medical department, it promotes the knowledge transfer both to courses and to hospital services.

— [www.oncology.unito.it](http://www.oncology.unito.it)

### Main Research Areas

- Thoracic cancers
- Gastrointestinal cancer
- Tumour microenvironment
- Biomarkers
- Oncogenomics
- Targeted therapies

# d s s p p

## Department of Public Health and Pediatrics

17 research groups and over 10 laboratories carry out research and teaching within the Department, in a wide range of areas, including hygienics and microbiology, medical statistics, child and adolescent psychiatry, and forensic pathology. The Department, located in the *Città della Salute e della Scienza* medical centre, also provides healthcare services.

— [www.dsspp.unito.it](http://www.dsspp.unito.it)

# d s c

## Department of Surgical Sciences

The Department promotes innovative research projects, adopting a multidisciplinary approach that includes general and specialist surgery, anaesthesia, radiology, and dentistry. As a medical department located in *Città della Salute e della Scienza* medical centre, it provides training in a wide range of clinical and healthcare areas. In addition, the Department is a key advisor for local public health institutions.

— [www.dsc.unito.it](http://www.dsc.unito.it)

### **Main Research Areas**

- Physical anthropology
- Bacteriology and mycology
- Cytoimmunodiagnosics
- Pediatric haematology
- Clinical epidemiology
- Medical epidemiology and statistics
- Environmental hygiene
- Immunology
- Viral infections
- Health promotion
- Criminology
- Serology and microbiology
- Cadaver studies
- Virology

### **Main Research Areas**

- New technologies in surgery
- Maternal foetal medicine
- Organ transplantation
- Interventional radiology
- Respiratory diseases
- Disability and rehabilitation

# d s v

## Department of Veterinary Sciences

The Department is committed to excellence in teaching and research in various areas of veterinary science, with a special focus on the welfare and health of animals, humans and the environment. The Department is located on the outskirts of Torino, and has a teaching and experimental farm and a dog pound.

— [www.veterinaria.unito.it](http://www.veterinaria.unito.it)

### **Main Research Areas**

- Veterinary anatomy and physiology
- Animal diseases, pathology and epidemiology
- Food safety
- Veterinary medicine, surgery and reproduction
- Animal genetics and nutrition
- Pharmacology and toxicology



Life sciences  
and medicine

**Agricultural, forest and  
food sciences**

**Drug science and  
technology**

Natural sciences  
and technology

# disafa

## Department of Agricultural, Forest and Food Sciences

The Department carries out research and teaching in the areas of plant and animal-based primary production and transformation processes, and in the interaction of such activities with the environment. Research in agricultural, forest and food sciences is focused on the needs of fast-changing societies, and benefits from a multidisciplinary approach.

### Main Research Areas

- Food production and science
- Plant physiology and production
- Plant pathology and pest control
- Forestry and land conservation
- Energy biomass production
- Animal production

— [www.disafa.unito.it](http://www.disafa.unito.it)

# dstf

## Department of Drug Science and Technology

Teaching and research within the Department cover all aspects of drug discovery, from drug design, synthesis and characterisation to formulation and clinical pharmacology, using a multidisciplinary approach. The Department works with a network of national and international partners, including universities, research centres and companies.

### Main Research Areas

- Drug design, synthesis and formulation
- New technologies for green and sustainable chemical processes
- Phyto-extraction and phyto-chemical analysis
- Nanotechnology and microencapsulation for pharmaceutical and cosmetic applications

— [www.dstf.unito.it](http://www.dstf.unito.it)



4

# Natural sciences and technology



dc

## Department of Chemistry

The Department's multi-disciplinary research activities, ranging from analytical and environmental chemistry to industrial chemistry and metallurgy, focus on the underlying foundations of chemical science related phenomena. The Department promotes cooperation and joint research projects with partners both within and outside the University.

— [www.chimica.unito.it](http://www.chimica.unito.it)

### Main Research Areas

- Analytical and environmental chemistry
- Physical chemistry
- Inorganic chemistry
- Organic chemistry
- Materials and industrial chemistry

dst

## Department of Earth Sciences

Teaching provided within the Department combines traditional and cutting-edge techniques in geology. Research activity covers a range of disciplines, such as chemistry, physics, natural science, genetic inheritance and biomedical science, and aims to foster interaction with civil society as well as public and private stakeholders in geology-related activities.

— [www.dst.unito.it](http://www.dst.unito.it)

### Main Research Areas

- Paleontology, sedimentology, structural geology
- Mineralogy, petrology and geochemistry
- Geomorphology and applied geology
- Geophysics
- Geosites and cultural heritage

dinf

## Department of Computer Science

The Department is the University's centre for coordination of research on IT, in areas such as human-computer interaction, big data analysis, and virtual reality. A number of research projects benefit from partnerships with national and international research centres and companies.

— [www.di.unito.it](http://www.di.unito.it)

### Main Research Areas

- Artificial intelligence and human-computer interaction
- Formal methods in computing
- Performance evaluation and system validation
- Complex socio-technical networks and distributed systems
- Complex systems, big data analysis and systems biology
- Image processing and virtual reality



# dm at

## Department of Mathematics

The Department promotes research and teaching in all mathematics-related areas, including mathematical logic, geometry, history of mathematics, statistics, mathematical physics, and numerical analysis. Teaching benefits by cooperation with the School of Natural Sciences and other University Schools. The Department organises regular research seminars hosting distinguished scholars from all over the world.

— [www.dipmatematica.unito.it](http://www.dipmatematica.unito.it)

### **Main Research Areas**

- Logic, history of mathematics, teaching of mathematics
- Algebra and geometry
- Mathematical analysis and probability
- Mathematical physics
- Numerical analysis

# df

## Department of Physics

Teaching ranges from physics, optics and optometry to extra-departmental programs in medical physics and astrophysics; research covers a broad range of areas in fundamental and applied physics, including environmental and nuclear physics. The local branch of the National Institute of Nuclear Physics (INFN) is located in the Department.

— [www.df.unito.it](http://www.df.unito.it)

### **Main Research Areas**

- Nuclear and particle physics
- Astrophysics and astroparticles
- Medical physics
- Theoretical physics
- Environmental physics and hydrodynamics
- Applied physics

# PhD programs



## PhD programs at UniTo

The Doctoral School of UniTo offers a wide range of PhD programs encompassing the following scientific domains:

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Life and  
Health Sciences

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research options

**International**  
opportunities

**Career**  
development

High quality  
**supervision**

International and national  
**networking**

Active research  
environment,  
infrastructures and  
**open access** labs

For further information:  
[en.unito.it](http://en.unito.it) » Research » PhD

# The city of Torino and the Piemonte Region



## Torino, international city of innovation

### A strategic location

Torino is situated on the Po River in Italy's north-western Piemonte Region, close to the Alps, and to beautiful countryside, rivers and lakes. Torino has an efficient transport system, 3 main train stations, and an international airport: Rome, Madrid, Frankfurt, Moscow, Paris and other key world destinations are easy to reach.

### An international people-friendly city

Torino has more than 40 consulates representing EU and extra-EU countries and a distinctly international and intercultural flavour. Torino is linked with 44 cities worldwide through twin-city and other agreements, and hosts many international events every year. Visitors and newcomers will find it easy to meet others and enjoy the city's dynamic social and cultural life.

### A base for international agencies

Torino is the location chosen for the European Training Foundation (ETF), the EU agency that assists developing countries in the fields of education, training and labour market systems. In addition, Torino is a strategic centre for the United Nations: its international campus in the city is home to the United Nations Interregional Crime and Justice Research Institute (UNICRI), the International Training Centre of the ILO (ITC-ILO), and the United Nations System Staff College (UNSSC).

### A centre for manufacturing and service industry

Torino is a business and manufacturing centre of importance in Italy and in Europe. Capital of the Italian automotive and car design industry, the city is also a centre of excellence for the aerospace industry. In addition, it is home to well-known publishing and print media houses, luxury brands, and food and wine producers. Torino was the first Italian city to develop a television and film industry, and parts of the old city centre are often used as sets for well-known TV serials and movies. Leading banks and insurance companies are based in Torino.

### An "open laboratory" for the urban innovation

The City of Torino is committed to a strategic redesign of its policies in support of local development, aimed at strengthening the penetration of new technologies and to create social impact, to bring new opportunities to its citizens and businesses. Recently, the City signed a "Memorandum of Understanding - Torino Social Impact: City Lab for Change" with some local partners and is open to collaboration with others in order to create an open and collaborative platform of public and private subjects engaged in supporting entrepreneurship with social impact. In this context, the local Administration intends to promote models and forms of economic development capable of responding in an innovative way to the current main challenges, as well as contributing to improving the competitiveness and attractiveness of the Torino economic system, generating more and better jobs. In particular, the City intends to create an open ecosystem favourable to the birth and growth of frontier innovation and sharing.

The characteristics of the evolutionary model of "Torino City Lab" are based on 3 main elements:

- Transparency, understood as the sharing of tangible and intangible assets (technology, laboratories, information on the city and its citizens, models and practices of social innovation)
- Openness and creation of an innovation ecosystem
- Agility in carrying out activities thanks to administrative, operational and simplification tools.



## Piemonte, a region to discover

### Museums, Modern Art and UNESCO Royal Residences

Torino has a Baroque city centre, several museums, including the Egyptian Museum, the National Museum of Cinema and the National Automobile Museum, great theatres, and a number of royal residences listed among the UNESCO World Heritage Sites. Modern art lovers can enjoy the GAM Modern Art Gallery, the Rivoli Castle Museum of Contemporary Art, the Merz Foundation and the Sandretto Re Rebaudengo Foundation, each with important artworks from Torino's Arte Povera movement.



## Food and cuisine

Torino's history and the region's prosperity have contributed to the creation of the city's reputation as a centre of excellence for high-quality cuisine and excellence in food products. Torino and the Piemonte Region are renowned for traditional antipasti, agnolotti (a special local type of ravioli), quality local meats, superb cheeses, and excellent ice cream and patisserie. Torino is also a centre for the food industry, and exports chocolate, wine, cheese and coffee worldwide.



## Nature and UNESCO sites

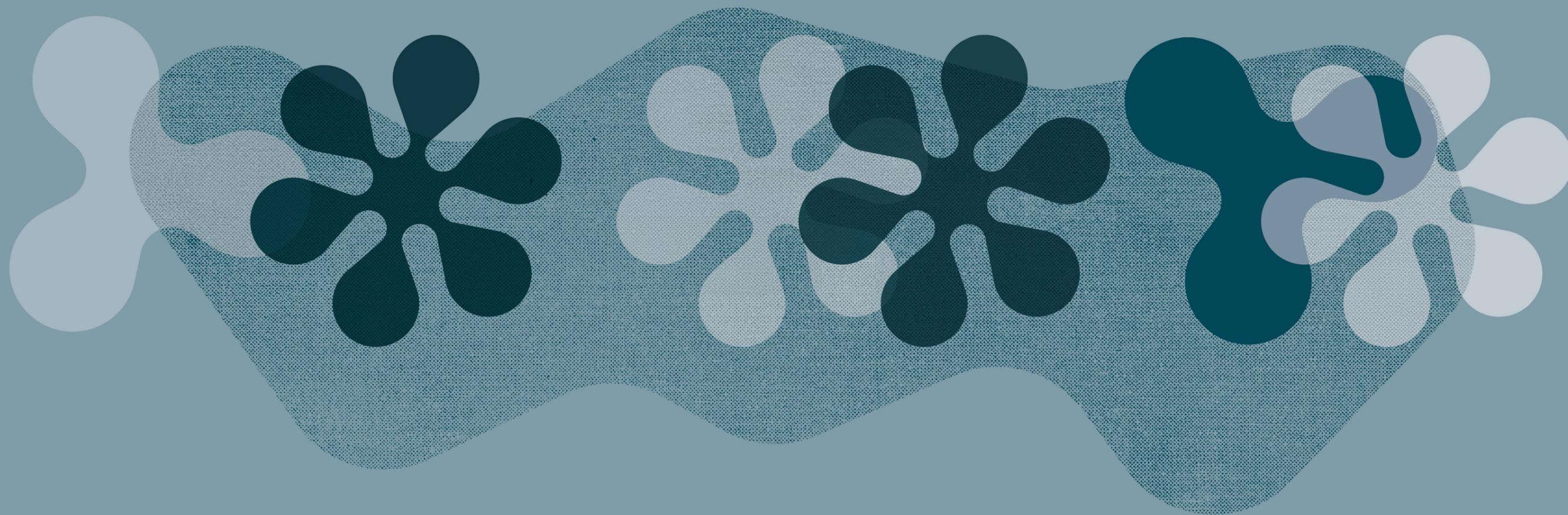
Torino's parks and two rivers together with the nearby mountains and lakes provide a great leisure environment. Piemonte has Langhe-Roero and Monferrato included on the list of UNESCO World Heritage Sites: the Langhe-Roero and Monferrato Vineyard Landscape of Piemonte, south of Torino, consists of five distinct winegrowing areas. Langhe-Roero and Monferrato is one of Italy's most important wine-producing areas, and is also a "cultural landscape", the result of the combined work of both nature and humankind. It lies within easy reach of Torino by car and by train.

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## Events

Torino hosts a wide range of national and international events. To name just a few: Artissima and Paratissima, both international contemporary art fairs; the Salone Internazionale del Libro di Torino; the Salone del Gusto and Terra Madre international fair of Italian and world food products; the Torino Jazz Festival; and the Torino Film Festival.





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[en.unito.it](http://en.unito.it)  
[chinese.unito.it](http://chinese.unito.it)

[internationalpartnerships@unito.it](mailto:internationalpartnerships@unito.it)