Humanitas
IN ITALY

- 9 hospitals
- Research center with focus on immune system-related diseases
- Humanitas University, an academic institute dedicated to life sciences.

To reach out to citizens, Humanitas goes outside the walls of its hospitals through its 18 Humanitas Medical Care centers (www.humanitas-care.it).

CLINICAL ACTIVITY EVERY YEAR
More than 1 million patients
190,000 inpatient admissions
106,000 surgeries
12 million outpatient health services

HUMANITAS AT A GLANCE
2,700 physicians
7,300 employees
2,080 beds
290,000 m²

Milan-Rezzano
Humanitas clinical Institute
www.humanitas.it

Milan
Humanitas San Pio X
www.sanpiox.net

Catania
Humanitas Istituto Clinico Catanese
www.humanitascatania.it

Bergamo
Humanitas Gavazzeni
www.humanitasgavazzeni.it

Humanitas Medical Care
www.humanitas-care.it

Turin
Clinica Fornaca di Sessant
www.clinicafornaca.it

Turin
Humanitas Gradenigo
www.gradenigo.it

Turin
Humanitas Cellini
www.clinicacellini.it

Turin
Humanitas Mater Domini
www.materdomini.it

SCIENTIFIC REPORT
Highlights 2021
Humanitas University offers 5 degree courses:
- International Degree in Medicine and Surgery (in English (6-year single cycle - Medical School)
- International Degree in Medicine and Surgery in partnership with Politecnico di Milano, designed to integrate and advance medical competences through scientific and technological approaches applied in Engineering (6-year single cycle - MEDITEC School)
- Degree in Nursing, in Italian (3 years)
- Master degree in Nursing (2 years)
- Degree in Physiotherapy, in Italian (3 years)

In terms of post-graduate training, the University has received accreditation from residency programmes in the most important specialties following a medical degree, and has 2 PhDs in Molecular and Experimental Medicine and in Data Science in Medicine and Nutrition, and several Master’s courses.

Humanitas 2020* More than 600 professionals involved in research, among them:
• about 400 research scientists (principal investigators, junior principal investigators, staff scientists, postdocs and PhD students, technicians)
• more than 200 clinicians
• 29 labs

Humanitas vs COVID Humanitas has been at the forefront of scientific research against COVID-19, with a wide range of studies that addressed the challenges posed by COVID-19, from genetics, to immunology, to optimization of diagnostics.

Impact Factor: 2,565 Number of publications: 323

International School of Medicine

Humanitas University is a private non-profit institution dedicated to medical sciences, founded in 2014 and based upon experience in university teaching since 2000. It is strictly interconnected with Humanitas hospitals, where clerkship activities take place.

### SCIENTIFIC ACTIVITIES

#### Humanitas 2020*

<table>
<thead>
<tr>
<th>Year</th>
<th>Publications</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>1,168</td>
<td>6,256</td>
</tr>
<tr>
<td>2020</td>
<td>1,750</td>
<td>10,939</td>
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* In the last three years. It includes Humanitas Hospitals and Humanitas University

### SCIENTIFIC LABORATORIES*

#### Geographical distribution of foreign researchers at Humanitas

From EU
61 Rest of the World
55

#### Humanitas Direction and Research Laboratories

**Director** Alberto Mantovani
Professor at Humanitas University

**ADAPTIVE IMMUNITY**

Junior principal investigator: Markus Kauffman
Researcher at Humanitas University

**ANALYSIS AND REHABILITATION OF MOTOR FUNCTION**

Clinical Research Associate: Roberto Gaffi
Professor at Humanitas University

**APPLIED PHYSICS, BIOPHYSICS AND MICROFLUIDICS**

Principal investigator: Roberto Rusconi
Professor at Humanitas University

**CELLULAR AND MOLECULAR ENDOCRINOLOGY**

Clinical Research Associate: Andrea Lania
Professor at Humanitas University

**CELLULAR IMMUNOLOGY**

Principal investigator: Paolo Allavena

**CHEMODEXINE BIOLOGY**

Principal investigator: Raffaella Boncchi
Professor at Humanitas University

**CLINICAL AND EXPERIMENTAL IMMUNOLOGY**

Principal investigator: Domenico Mavilio

**CLINICAL IMMUNOLOGY AND AUTOIMMUNITY AND METABOLISM**

Clinical Research Associate: Carlo Sica
Professor at Humanitas University

**DEVELOPMENTAL NEUROBIOLOGY**

Junior principal investigator: Silvia Tomio
Professor at Humanitas University

**EXPERIMENTAL IMMUNOPATHOLOGY**

Principal investigator: Cecilia Garlenda
Professor at Humanitas University

**GASTROINTESTINAL IMMUNOPATHOLOGY**

Clinical Research Associate: Silvio Danese
Professor at Humanitas University

**GENOMICS OF HEMATOLOGICAL MALIGNANCIES**

Clinical Research Associate: Matteo Della Porta
Professor at Humanitas University

**IMMUNOPHARMACOLOGY**

Principal investigator: Barbara Bottazzi

**IMMUNOPHARMACOLOGY HEPATOBILIARY LABORATORY**

Clinical Research Associate: Ana Llo De Nalda
Professor at Humanitas University

**LEUKOCYTE BIOLOGY**

Principal investigator: Massimo Locati

**MEDICAL GENETICS AND RNA BIOLOGY**

Principal investigator: Stefano Duga
Professor at Humanitas University

**MOLECULAR ALLEROGOLOGY**

Clinical Research Associate: Giuseppe Filippone

**MOLECULAR GASTROENTEROLOGY**

Clinical Research Associates: Luigi Lugli

**MOLECULAR IMMUNOLOGY**

Principal investigator: Antonio Sica
Professor at Humanitas University

**MICROBIOTA**

Clinical Research Associate: Carlo Sica
Professor at Humanitas University

**MICROFLUIDICS**

Professor at Humanitas University

**MICROGENETICS AND RNA BIOLOGY**

Principal investigator: Matteo Della Porta
Professor at Humanitas University

**PHARMACOLOGY AND BRAIN PATHOLOGY**

Principal investigator: Michela Malfatti
Professor at Humanitas University

**PHYSICAL AND CHEMICAL CHARACTERIZATION OF THE PANCREATIC TISSUE**

Principal investigator: Alessandro Zerbi
Professor at Humanitas University

**SKIN PATHELOGOLOGY LAB**

Principal investigator: Antonio Costanza
Professor at Humanitas University

**TRANSITIONAL IMMUNOLOGY**

Principal investigator: Enrico Luzi

**TUMOR MICROENVIRONMENT**

Junior principal investigator: Diletta Di Miliri
Professor at Humanitas University

**NATIONAL RESEARCH COUNCIL (CNR)**

**HUMAN GENOME AND MEDICAL BIOTECHNOLOGIES**

Junior principal investigator: Barbara Cassani
Cristina Sobacchi
Francesca Ficara

**INFLAMMATION AND IMMUNOLOGY IN CARDIOVASCULAR PATHOLOGIES**

Clinical Research Associate: Giardigli Contorelli
Professor at Humanitas University

**SIGNAL TRANSDUCTION IN CARDIAC PATHOLOGIES**

Principal investigator: Daniele Cafarelli

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1 Students enrolled in the first year of Medicine

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* In addition to research, he/she works as a clinician