UNIVERSIDAD COMPLUTENSE MADRID

una europa

na Europa One Health

ploring the Future of One Health for Security and Sustainable evelopment

runo González Zorn deputizing Jose Ramón Regueiro

Europa University Partners

Freie Universität Berlin
Università di Bologna
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KU Leuven
Universidad Complutense
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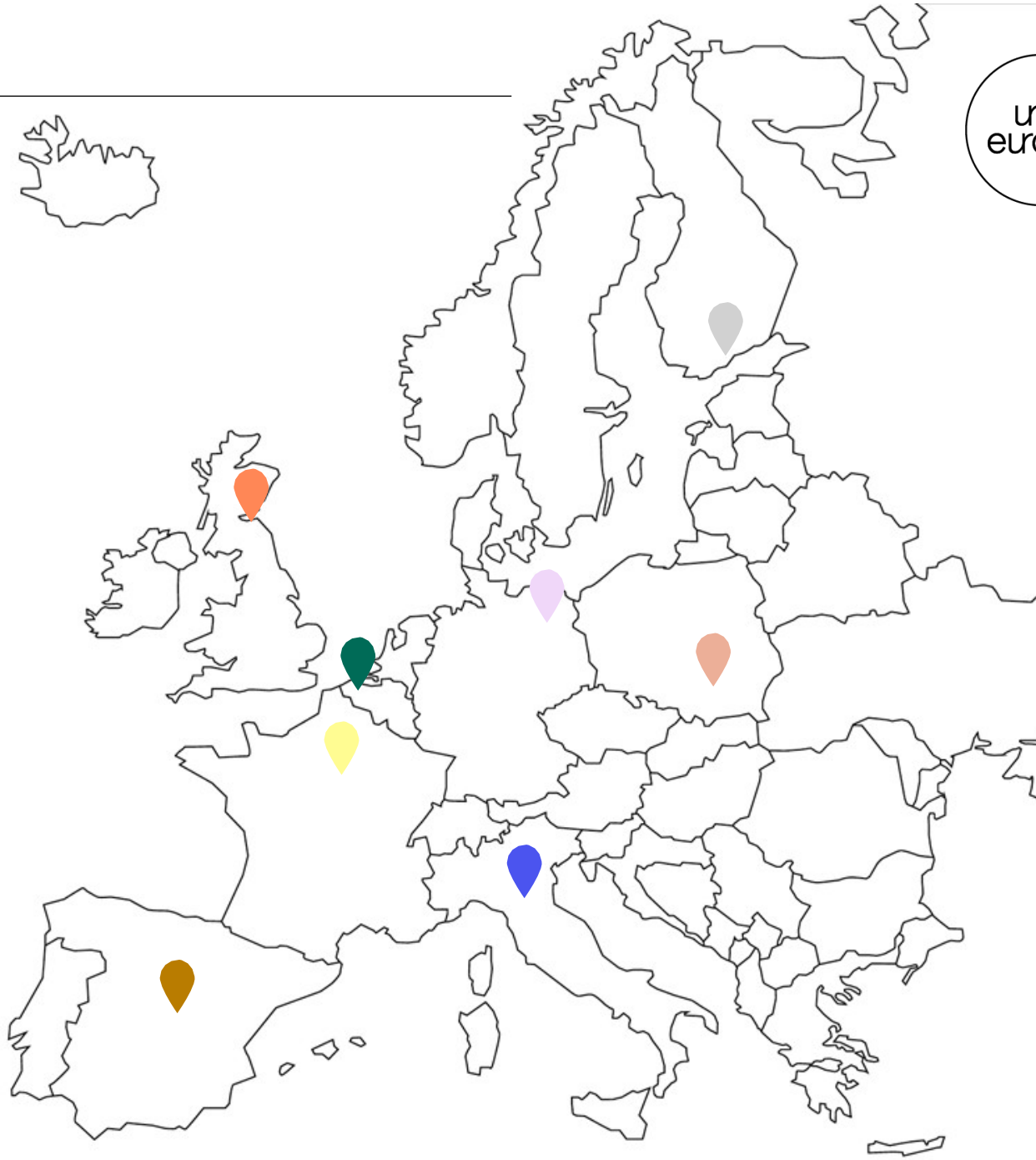

Co-funded by the
Erasmus+ Programme
of the European Union


Arctic Ocean
Greenland Sea
Barents Sea
Kara Sea
Russia
Denmark Strait
ARCTIC CIRCLE
66°30' N
Norwegian Sea
Atlantic Ocean
North Sea
Baltic Sea
ASIA
EUROPEAN RUSSIA
EUROPE
English Channel
Spain
Bay of Biscay
Kazakhstan
Caspian Sea
Black Sea
Turkey
Strait of Gibraltar
Tunisia
Mediterranean Sea
Syria
Lebanon
Iran
Iraq
Morocco
Israel
Jordan
ASIA
MIDDLE EAST
Algeria
Libya
800 mi
800 km
Egypt
23°5' N
TROPIC OF CANCER
Saudi Arabia
PRIME MERIDIAN
AFRICA
Red Sea
©GraphicMaps.com


worldatlas
©GraphicMaps.com
Atlantic Ocean
Bay of Biscay
100 mi
100 km
France
Andorra
Andorra la Vella
Gulfe du Lion
Portbou
Girona
Barcelona
Tarragona
Lleida
Cabo de Ortegal
Cabo de Penas
Santiago de Compostela
Gijon
Santander
San Sebastian
Oviedo
La Coruna
Bilbao
Cabo de Finisterre
Mino River
Sil River
Cordillera Cantabrica
Vitoria
Logrono
Pamplona
PYRENEES
Vigo
Ourense
Leon
Sistema Iberico
Ebro River
Douro River
Palencia
Soria
Zaragoza
Ebro Basin
Zamora
Valladolid
Spain
Salamanca
Cordillera Central
Serrania de Cuenca
Guadalajara
Madrid
Tagus River
Toledo
Portugal
Castello de la Plana
Cabo de Tortosa
Balearic Sea
Menorca
Montes de Toledo
Cuenca
Caceres
Valencia
Golfo de Valencia
Mallorca
Guadiana River
Ciudad Real
Jucar River
Ibiza
Lisbon
Merida
Albacete
Balearic Islands
Badajoz
Cabo de la Nau
Formentera
IBERIAN PENINSULA
Sierra Morena
Guadalquivir River
Alacant
Cordoba
Murcia
Costa Blanca
Cartagena
Huelva
Seville
Cordillera Betica
Andalusian Plain
Granada
Sierra Nevada
Almeria
Costa Calida
Golfo de Cadiz
Malaga
Mediterranean Sea
Marbella
Cabo de Gata
Costa del Sol
Cadiz
Algiers
worldatlas
Atlantic Ocean
Strait of Gibraltar
Ceuta
Alboran Sea
PRIME MERIDIAN
Gibraltar (UK)
Melilla
Algeria
Penon de Velez de la Gomera
Penon de Alhucemas
Islas Chafarinas
Rabat
Morocco
AFRICA
©GraphicMaps.com
SPAIN
LOW / HILLS / MOUNTAINS



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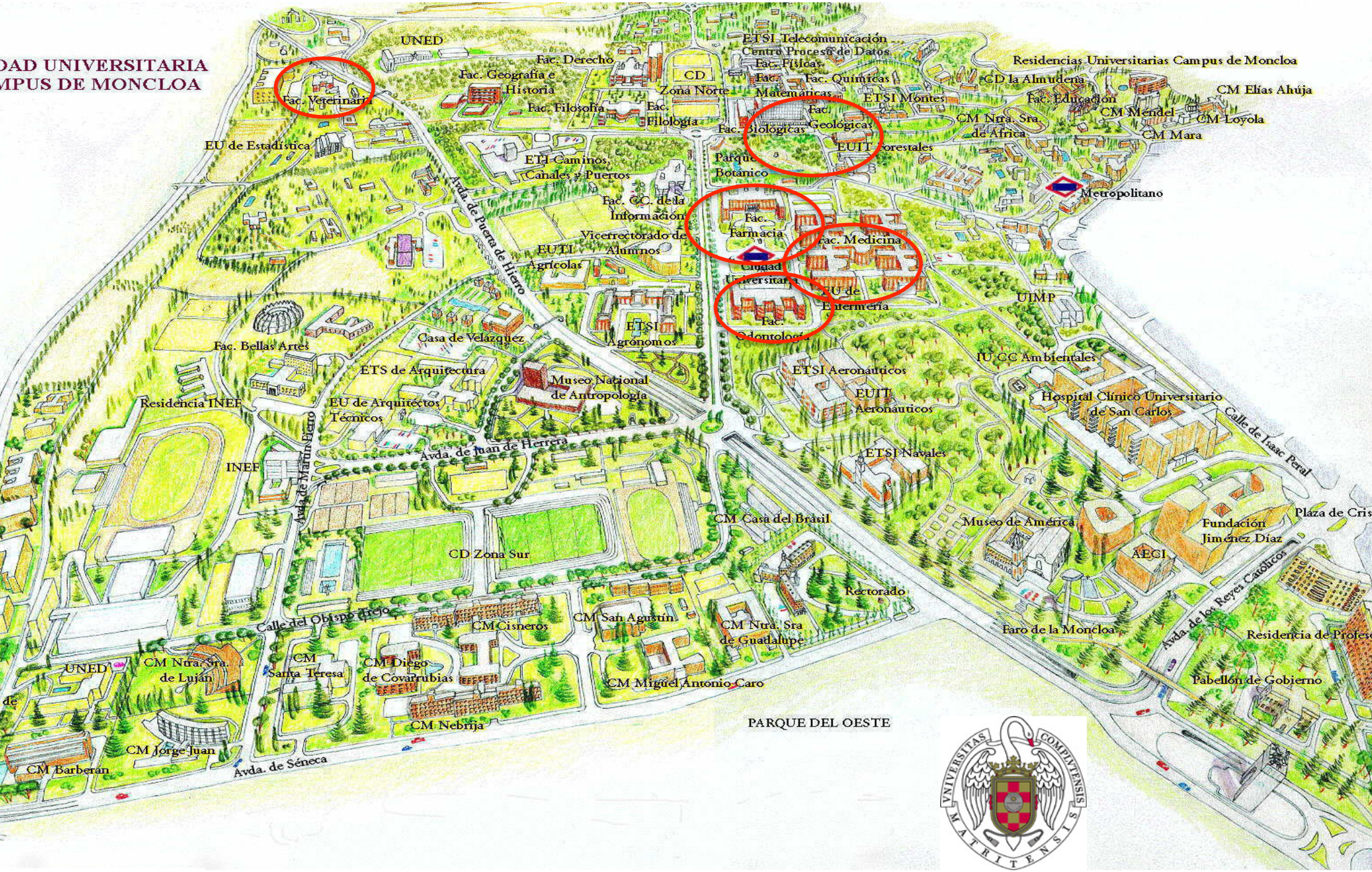
DAD UNIVERSITARIA
MPUS DE MONCLOA
UNED
Fac. Derecho
Fac. Geografía e Historia
Fac. Filosofía
Fac. Filología
CD Zona Norte
ETSI Telecomunicación
Centro Proceso de Datos
Fac. Físicas
Fac. Matemáticas
Fac. Químicas
ETSI Montes
Fac. Geológicas
Fac. Biológicas
EUIT Forestales
Parque Botánico
Residencias Universitarias Campus de Moncloa
CD la Almudena
Fac. Educación
CM Elías Ahúja
CM Mendel
CM Loyola
CM Mara
CM Nra. Sra. de África
Metropolitano
Fac. Veterinaria
EU de Estadística
ETS Caminos, Canales y Puertos
Avda. de Puerta de Hierro
Fac. CC. de la Información
Vicerrectorado de Alumnos
Fac. Farmacia
Fac. Medicina
Ciudad Universitaria
EU de Enfermería
Fac. Odontología
EUTI Agrícolas
ETSI Agrónomos
UIMP
Fac. Bellas Artes
Casa de Velazquez
ETS de Arquitectura
Museo Nacional de Antropología
IU CC Ambientales
ETSI Aeronáuticos
EUIT Aeronáuticos
Residencia INEF
EU de Arquitectos Técnicos
Hospital Clínico Universitario de San Carlos
Calle de Isaac Peral
Avda. de Juan de Herrera
Avda. de Martín Fierro
INEF
ETSI Navales
CM Casa del Brasil
Museo de América
Fundación Jiménez Díaz
AECI
Plaza de Cris
CD Zona Sur
Rectorado
Calle del Obispo Trejo
CM Cisneros
CM San Agustín
CM Nra. Sra de Guadalupe
Faro de la Moncloa
Avda. de los Reyes Católicos
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Pabellón de Gobierno
CM Nebrija
PARQUE DEL OESTE
CM Jorge Juan
CM Barberán
Avda. de Séneca
VNIVERSITAS COMPLVTENSIS MATRITENSIS











SOME DATA

The Complutense University of Madrid (UCM) is the biggest, oldest (1293) and most complete University in Spain.

It has 95.000 Students in two campus,

With 322 Official Degrees,158 Master Degrees and 59 PhD Programs, from four main learning areas: Humanity, Nature and Exact Sciences, Health Sciences and Social Sciences.

UCM has 20 Faculties, 6 (High Colleges. Universitary Schools) y 184 Departments.

15.000 Professionals: 6.000 Teachers and researchers, and 9.000 in services and administration.

Its library, with more than 2 millions of books and more than 40.000 journals, is the biggest of Spanish Universities.

Royal Complutense School at Harvard University

7 Nobel Prizes

- FACILITIES

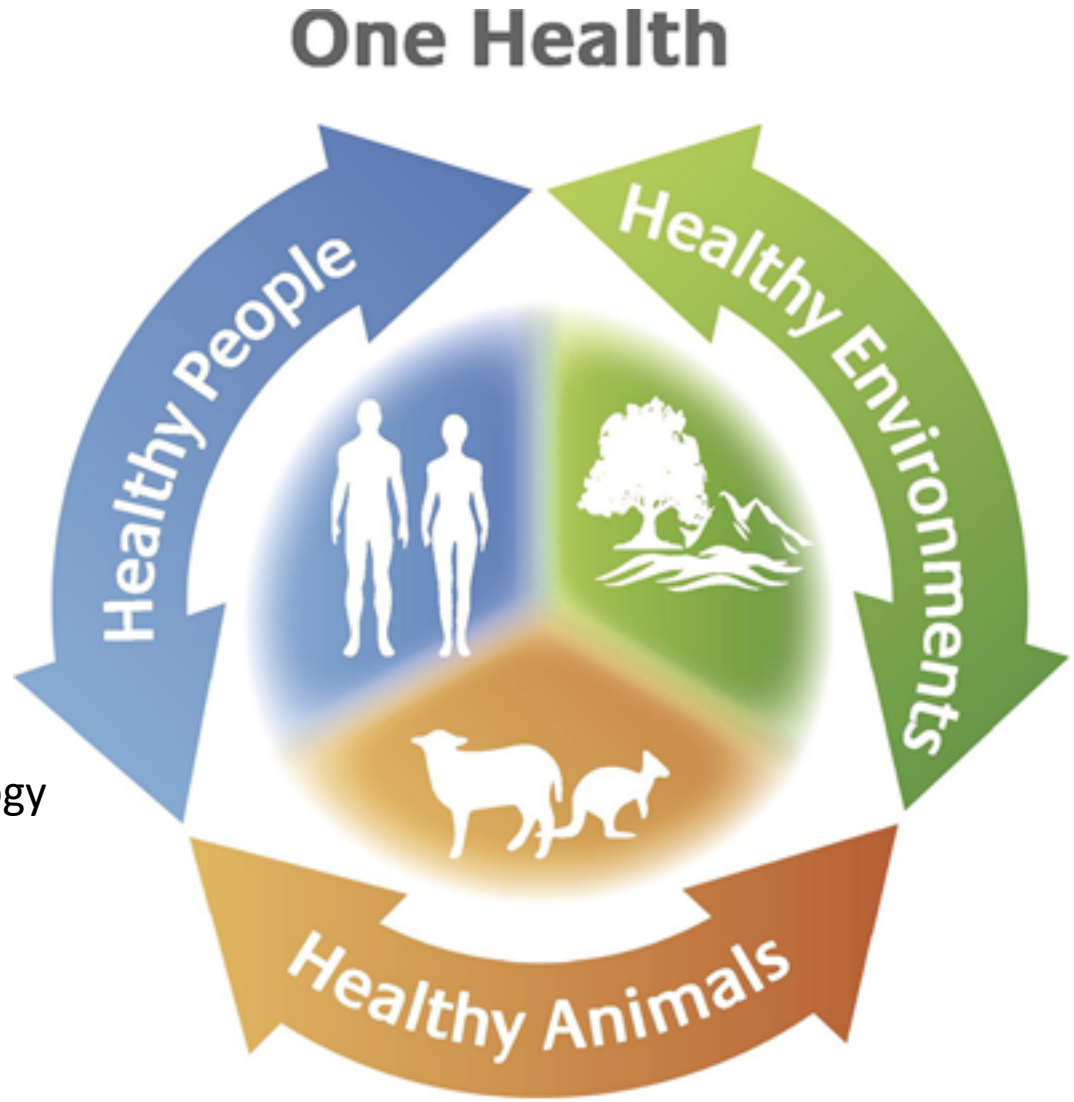
42 RESEARCH INSTITUTES

17 TECHNICAL PLATFORMS

- Center for supercomputing
- Center for Genomics
- Electron Microscopy
- X-Ray diffraction
- Nuclear Magnetic Resonance
- Mass, Laser and Atomic Spectrometry
- Center for Proteomics and Genomics
- Ion Implanter
- Geochronology Center
- Molecular Design
- Brain Mapping Center

E COMPLUTENSE … A **ONE HEALTH** UNIVERSITY

Dentistry
Human Nutrition and Dietetics
Medicine
Nursing
Occupational Therapy
Optics and Optometry
Pharmacy
Physiotherapy
Psychology
Speech Pathology
Veterinary Science
Biology
Food Science and Technology
Speech Pathology
Biochemistry
Chemistry
Geology
Mathematics



Mathematics and Statistics
Physics
Chemical Engineering
Computer Engineering
Computer Science Engineering
Electronic Communications Engineering
Geological Engineering
Materials Engineering
Mathematical Engineering
Software Engineering
Economics
…

In the workshop today…



RAFAEL CALERO BERNAL



BRUNO GONZALEZ ZORN



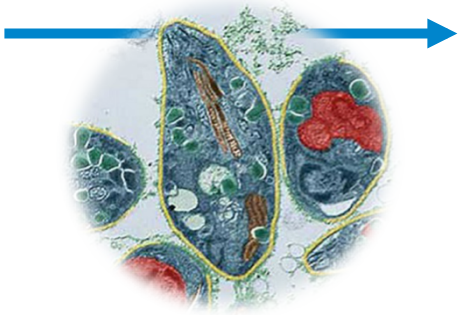
JESUS FLORES SOLER

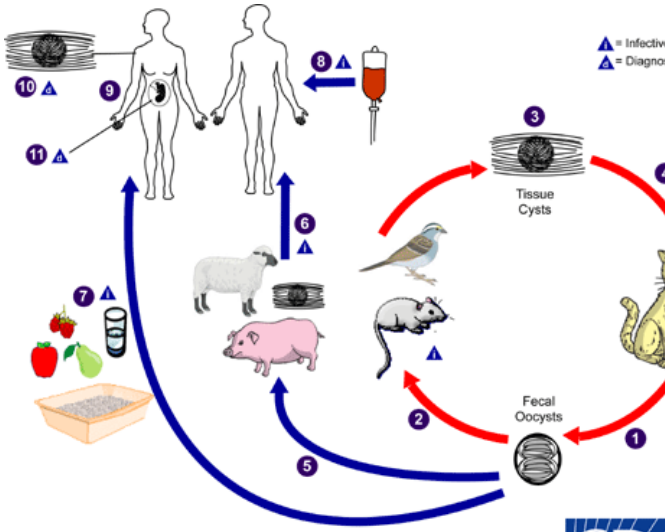
SALUVET-UCM

TOXOSOURCES: *Toxoplasma gondii* sources quantified

One Health European Joint Programme: European Union's Horizon 2020 Research and Innovation Programme (Agreement No. 773830).
(2019-2022)

- **20 Institutions**
- **Infection source attribution**





NeoToxVir: *Toxoplasma gondii* genotipes and phenotypes in Spain
(National I+D+i Prog., 2016)

Important gaps in Spain

Toxo-OneHealth: *T. gondii* One Health: relevance of meat borne and environmental routes
(National I+D+i Prog., 2020)

TOXOCONTROL:*T. gondii* in extensive pig production systems
(Agreement with companies, 2019)

SALUVET-UCM (Past and future)

Vast experience in other water-borne zoonotic diseases

MED-VET-NET (European network of excellence, working for the prevention and control of zoonoses and food-borne diseases)



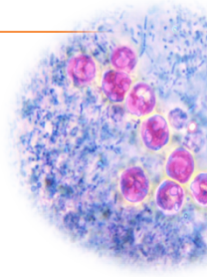








WP 12 **CrypNet**: A European networ the detection and control of *Cryptosporidium*



WP 22 Zoonotic Protozoa network (**ZOOP-NET**) - *Cryptosporidium* and *Giardia*



Knowledge transfer

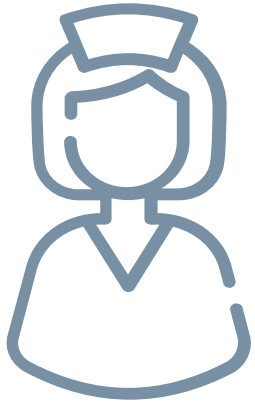




Ucm NURSING







NURSE: MAIN EXECUTOR OF HEALTH

Close contact with patients.

Wrapped in his personal family and community environment.

NURSES HA

CRITICAL AN
NECESSAR
ROLE

FOR ADOP
UNIFIED
GLOBAL AN
EUROPEAN
HEALTH
STRATEGIE

Ucm NURSING

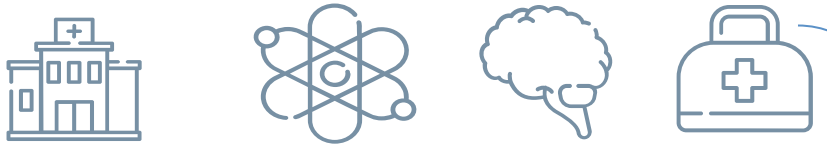
WHO WE ARE



Nurses, Medical Doctors, Physiotherapist, Podologist, Pharmacist, Statical professionals…



UCM FACULTY OF NURSING, PHYSIOTHERAPY AND PODOLOGY



UCM **ACEPTABLE** RESEARCH GROUP – NURSING FACULTY

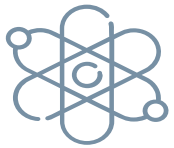
PUBLIC HEALTH - LIFESTYLES, NURSING METHODOLOGY AND CARE IN THE COMMUNITY ENVIRONMENT



DOCTORATE DEGREE
IN HEALTH CARE – NURSING FACULTY

PHD IN HEALTH CARE
HEALTH INNOVATION
DIGITAL HEALTH CARES AND HEALTH LITERACY

Ucm NURSING







WHAT WE DO

Team with high experience in nursing related to primary secondary and tertiary healthcare, academic results (degree, master's, doctorate) and participation in competitive national and international projects related to:

Health promotion / Lifestyles and health care
Study of the environment and ecosystem related to health in accordance with the SUSTAINABLE DEVELOPMENT GOALS of the UNITED NATIONS
Nursing process
Self-care
Vaccination
Digital health and digital health literacy

WHAT WE OFFER TO "One Health"

To give our point of view and contribute with:

- Highly qualify staff with extensive experience in Nursing/health care.

- University Hospitals to work in Madrid.

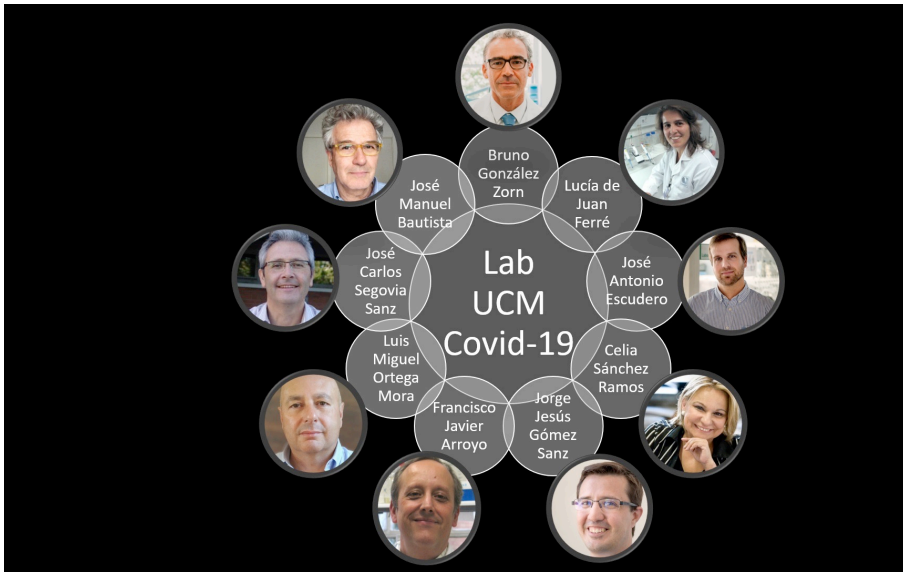
- Comunity of patients (CoP) very important to evaluate patient experience (with PrEMs and PROMs)

- Academic scenario: grade, master, specific pHd program following European and Worlwide Guidelines.

- Digital tools in health care and medical devices.

timicrobial Resistance

jpiamr
Joint Programming Initiative
on Antimicrobial Resistance



D•VET•NET
EWS
Issue 7 July 2006

EvoTAR
Evolution and Transfer of Antibiotic Resistance

EFFORT
AGAINST ANTIMICROBIAL RESISTANCE

29
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crobial Resistance
l for Humans in Food,
nment, Animals and

One HEALTH EJP

AVANT

European Commission

MARIE CU







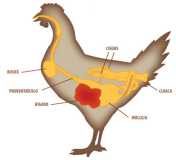
LABORATORIOS BSL-3

BSL-3 BOXES





AT UCM



Healthy gut



AMR Network



Zooniosis



Bovine Tuberculosis
European Union Reference Laboratory

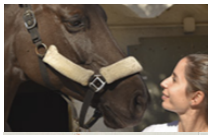
Tuberculosis



Patología y Veterinaria Forense



Epidemiology



Equine surveillance



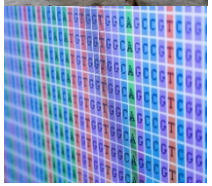
Vector-borne Diseases



Neglected diseases



Biuoseurity



WGS



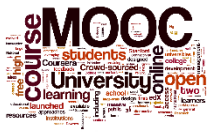
Medicines Agency



Experimental Farms



Alert Labs Network



Online Education



Diagnostics



Acuiculture

ENVIRONMENT

***Fungi and Food**

Biocontrol of micotoxins

***Animal Viruses**

***Microbial Ecology and Biotecnology**

Wastewater and Biofilms





Difficult to summarize ALL ONE HEALTH ACTIVITIES AT UCM

One Health MASTER DEGREES

One Health PhD PROGRAMS



UCM INTERNATIONAL SUMMER COURSES: EL ESCORIAL

UNIVERSIDAD COMPLUTENSE MADRID

Complutense Summer Courses

Introduction | Venues – Transport | Programming | Enrollment | Image gallery









HR EXCELLENCE IN RESEARCH

MONCLOA campus de Excelencia Internacional

UNA EUROPA UNIVERSITY ALLIANCE EUROPE

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Ibero-American Union of Universities



United North American Universities

African Summer School

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And many others…

Strength: UCM IS One Health

UNIVERSIDAD COMPLUTENSE MADRID



eakness: Courses in English

Challenge : We are many- Internal coordinati

Thank you !

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regueiro@med.ucm.es