

Health and Care University of Edinburgh



Achieving global impact
through world leading
research and training

Open to a world of possibilities

- Exploring complex relationships between human, animal and environmental health
- Committed to multidisciplinary working in world leading Global Academies and research centres
- Collaborating to deliver research that influences global policy and contributes to saving lives
- Providing training in skills needed to respond to existing and emerging health challenges



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For more info: <http://www.ed.ac.uk>

Science and Technology

Focus on Infectious Diseases and One Health

- Edinburgh Infectious Diseases
- Global challenges – AMR, Pandemic Research
- Tackling Infection in Africa and other LMICs
- Addressing the climate emergency - building resilient communities
- One Health approaches to disease outbreaks
- Integrating social, basic, clinical and veterinary science
- Multidisciplinary training



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Edinburgh Infectious Diseases



Transdisciplinary network of >900 scientists, clinical, social and behavioural researchers

Mission

- Represent the strengths of infectious disease science in Edinburgh
- Maintain a strategic overview of infectious disease research in Edinburgh
- Maximise synergy between established activities
- Promote innovation and translation
- Foster infectious disease teaching and training at all levels within the University



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www.edinburgh-infectious-diseases.ed.ac.uk

Edinburgh Infectious Diseases

Network of >900 researchers



- Basic science



- Clinical



- Social science



- Veterinary

Connected across Scotland,
UK, Europe and globally

www.edinburgh-infectious-diseases.ed.ac.uk

Global Challenges: Antimicrobial Resistance



The Edinburgh AMR Forum:
Connecting researchers and
clinicians across Edinburgh

Global expertise

The Edinburgh AMR Forum
brings together a vibrant
community of over 200
researchers tackling AMR

- Global and local epidemiology of AMR
- Rapid diagnostics of more effective use of antibiotics
- Mechanisms of biology, evolution and physics underpinning antibiotic resistance
- Antibiotic alternatives and vaccine development
- Antimicrobial resistance in fungi
- Antimicrobial governance and stewardship



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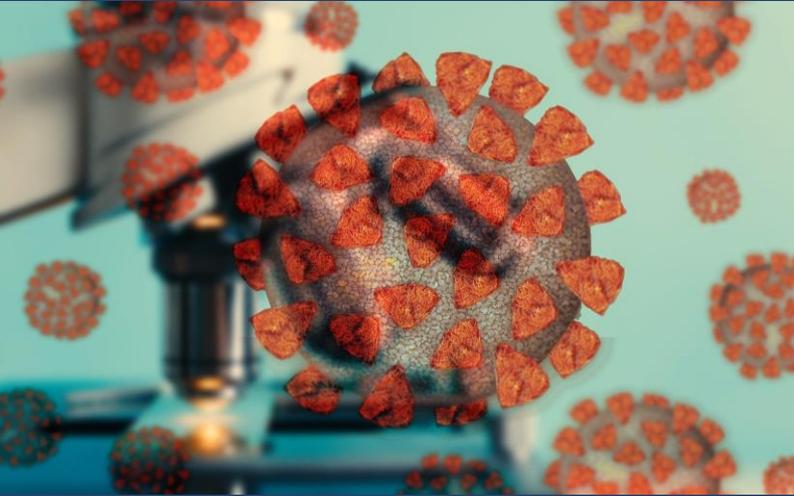
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Edinburgh
AMR Forum
One AMR
Network

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<https://edinburgh-infectious-diseases.ed.ac.uk/core-activities/>

Edinburgh Pandemic Research Forum



Connecting transdisciplinary
expertise in pandemic
research and response

Supporting the research community

Preparing for an even stronger
future response:

- Assisting with funding applications
- Building internal networks and acting as a node for consultation exercises
- Maximising visibility to external stakeholders
- Creating a College of Experts facilitating information exchange



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Leveraging 'Omics Technologies

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Baillie Gifford Pandemic Science Hub



Using genetics to find
new therapies, fast

Our aims

Bold in ambition to transform the speed of therapeutic innovation through inter-disciplinary collaboration:

- ✓ Genetics-fuelled discovery of effective drugs
- ✓ Rapid, efficient testing for efficacy in lungs
- ✓ Find effective treatments that make things better for patients



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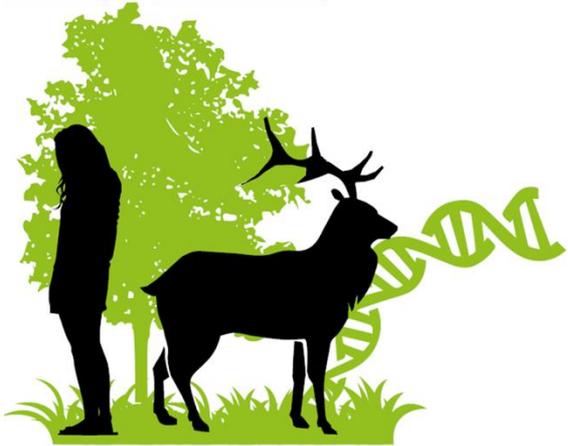


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For more info contact psh@ed.ac.uk
www.psh.ac.uk

One Health Genomics Edinburgh



Harnessing genome
knowledge for global
health of humans, animals,
plants and ecosystems

OHGE

- Community of >400 genomics researchers at UoE
- Cross-species, multi-disciplinary, multi-'omics
- Genomes, epigenomes, single-cell and spatial transcriptomes
- Massive compute and AI
- Industry collaborations with biotech and pharma
- Early Career Researcher programmes in Precision Medicine, Biomedical AI, Genome Analysis
- Addressing major societal challenges



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For more info please contact
genomics_network@ed.ac.uk

Rapid whole genome sequencing



ION-BRU – the Scottish Nanopore sequencing user group

Aims

- **Networking**
 - Our biannual meetings bring together scientists from across Scotland
- **One health**
 - Our meetings expose members to research on a wide variety of species and encourage collaboration
- **Method development**
 - Our members share ideas and troubleshoot DNA extraction and sequencing methodology for a broad range of applications



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For more info contact Nat Ring
n.ring@roslin.ed.ac.uk

Impacts Across LMICs

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Tackling Infection to Benefit Africa



TIBA is an Africa-led, multi-disciplinary research programme tackling infectious diseases

Connecting across Africa

TIBA aims to harness the expertise and technical capability in biomedical and social sciences at the University of Edinburgh and African partners to reduce the burden and threat of infectious diseases in Africa by informing and influencing health policy and strengthening health systems



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<https://tiba-partnership.org/>

Affected Voices



Amplifying the voices of people living with morbidity, disability and disfigurement from neglected tropical diseases

Representation

Amplifying

- Facilitating representation of people with lived experiences of NTD diseases at all levels of decision-making and health service provision.

Recording

- Facilitating quantification of the scale and impact of living with chronic NTD morbidity and disease.

Solving

- Facilitating co-development of sustainable evidence-based policies and solutions for the management and treatment of chronic NTD morbidity and disease.



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<https://tiba-partnership.org/ntd-affected-voices>

NIHR - RESPIRE



Reducing deaths, and wider health and societal impacts, from respiratory diseases in Asia

NIHR Global Health Research Unit on Respiratory Health

Our research is split into three programmes.

1. Infectious diseases, such as tuberculosis and pneumonia
2. Non-communicable diseases, such as asthma and chronic obstructive pulmonary disease
3. Preventable risk factors, e.g. tobacco smoking and exposure to air pollution



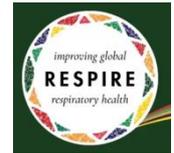
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NIHR | National Institute for
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<https://usher.ed.ac.uk/respire>

Integrating Environmental Change

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Edinburgh Earth Initiative



**KNOWLEDGE
FOR URGENT
CLIMATE ACTION**

A world where our partnerships make a positive change in the communities most impacted by the global climate emergency

EEl Activities

Key focus of activities addressing **Health in a Warming World**

- Research
- Philanthropy
- Student and staff experience – Earth fellows
- Enterprise and Innovation
- Events and workshops
- Health and Climate action Panel



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Edinburgh Earth Initiative

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www.earth.ed.ac.uk
earth@ed.ac.uk

Centre for Adapting to Changing Environments



Responding to unprecedented change to our planet, biodiversity and health

Partnership

ACE brings together a partnership of organisations supported by the University of Edinburgh to address how populations can effectively adapt to our changing environment.

Research integrates across four interlinked areas:

- Earth
- Life
- Ecosystems and
- Society



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ACE
CENTRE FOR ADAPTING TO
CHANGING ENVIRONMENTS

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<https://environmentalchange.ed.ac.uk/>

Blue Health



Sustainable growth of the 'blue economy' has potential to feed the growing human population well

Sustainable food

- Scotland has a rapidly growing aquaculture sector – it is the third-largest salmon farming sector worldwide
- Finfish and shellfish have high nutritional value, high resource use efficiency, and a relatively low carbon footprint
- Work at the Roslin Institute contributes to:
 - Genetic, genomic and gene editing technologies for disease resistance and productivity
 - Fish health and welfare
 - Promoting the role of aquaculture in human nutrition
 - Promoting responsible innovation and regulatory systems.



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<https://vet.ed.ac.uk/global-agriculture-food-systems>
<https://vet.ed.ac.uk/roslin>

A Lens on Food Systems



Research, education and policy
in the Division of Global
Agriculture and Food Systems

Challenges in food systems

- Conversion of natural habitats to farmland is a major driver of biodiversity loss
- Exploitation of wildlife and intensification of livestock production increase the risks of the emergence of zoonotic diseases
- Malnutrition and associated health challenges are widespread
- Risks of anti-microbial resistance arising from AM use in agriculture
- Food-borne pathogens are a common source of zoonotic disease



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Global Academy of
Agriculture and Food Systems

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For more info visit GAFS:
<https://vet.ed.ac.uk/global-agriculture-food-systems>

Jameel Observatory



Photo credit © ILRI

Brokering science to develop
inclusive solutions to
environmental shocks facing
dryland communities

Health of Drylands

Based at the International Livestock Research Institute in Nairobi, Kenya, we are an **international partnership** led by the University of Edinburgh.

Our aim is to support vulnerable pastoral and agro-pastoral communities in East Africa to be more prepared for, and resilient to, the effects of stresses and environmental shocks on their food security and nutrition.

This is achieved through identifying and delivering actionable research, generating evidence, catalysing collaboration, developing capacities, and convening dialogue for change.



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**JAMEEL
OBSERVATORY**
FOR FOOD SECURITY EARLY ACTION

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<https://jameelobservatory.org/>

One Health Field Network



Uniting diverse and multidisciplinary expertise to enhance preparedness to risks to human, animal, and environmental health in complex contexts

Enhancing preparedness in fragile contexts

The **FIELD SONGS** project highlights the intangible cultural heritage of Syrian refugees, aiming for sustainable development in the Middle East.

The **Türkiye-Syria Earthquake Rapid Needs Assessment** evaluates the impacts on human, animal, and environmental health resulting from the 2023 earthquake in Northwest Syria and Türkiye.

The **Aesthetics of Food Security** project investigates the aesthetic values, practices, and patterns that shape emotional responses to conflict and food insecurity in Syria.



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Academic
Expertise
for Sustainable
Development



Achieving One Health
through Food Security

دوران ثقافة وفن
Douzan Art & Culture

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Contact: Professor Lisa Boden (lisa.boden@ed.ac.uk)
www.onehealthfieldnetwork.com

Zoonoses & Livestock Health

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EPIC: A One Health approach to animal disease outbreaks



Scottish Government's Centre
of Expertise on Animal
Disease Outbreaks

Key activities

- Interdisciplinary consortium across seven Scottish research institutions
- Well-established links with decision-makers
- Providing an evidence base for decision-making in “peacetime” (preparedness) and emergency (response) times:
 - Genetic analysis to track the spread of infectious disease
 - Mathematical modelling of disease outbreaks
 - Knowledge brokering between science and decision-makers e.g. risk assessment
 - Research at the wildlife-livestock interface (e.g. Avian Influenza)
 - Social research to understand human behaviour



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Centre of
Expertise on
Animal Disease
Outbreaks

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For more info visit <https://www.epicscotland.org/>

Moredun Research Institute



Promoting livestock health
and welfare through
research and education

Commitment to Global Challenges

Mission: to develop nature-friendly livestock farming practices by addressing:

- **Climate Change**
- **Biodiversity Loss**
- **Sustainable and Secure Food Production**

Working closely with the farming community, we focus on:

- Identifying the causes of disease
- Exploring disease progression
- Developing effective vaccines
- Designing disease prevention and treatment strategies
- Conducting disease surveillance and diagnostics



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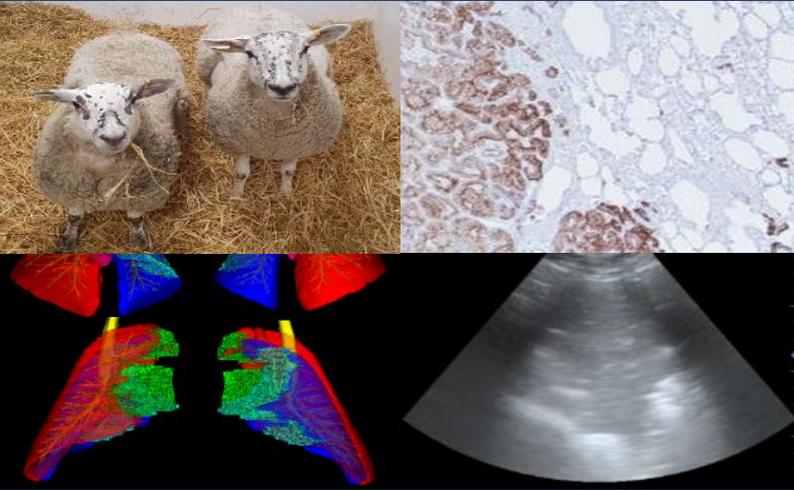


Moredun

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<https://moredun.org.uk/>

Developing comparative models of disease



Ovine Pulmonary Adenocarcinoma and human lung cancer

Disease management

- **Ovine Pulmonary Adenocarcinoma (OPA)** is an infectious and fatal lung cancer affecting sheep
- OPA causes significant animal welfare and economic challenges throughout the world
- Many similarities between OPA and human lung cancer
- Development of a reliable pre-clinical OPA diagnostic test is a significant challenge
- Using the OPA model for human lung cancer studies has allowed:
 - Testing anti-cancer agents
 - Assessing novel imaging techniques
 - Development of new procedures



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For more info contact Dr Mark Gray
mgray34@ed.ac.uk; Roslin Institute

SEBI-Livestock



Mobilising data to inform livestock development investment decisions

Evidence-based interventions

What we do:

- Put data and evidence at the centre of livestock decision-making in LMICs.

Our Purpose:

- To enable smallholder livestock keepers to fulfil their potential through better-informed decisions and technologies.

Our Vision:

- A world where reliable data and evidence are available to support and drive sustainable transformation of the livestock sector.



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SEBI
LIVESTOCK
Centre for Supporting Evidence-Based
Interventions in Livestock

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<https://sebi-livestock.org/>

Centre for Tropical Livestock Genetics and Health



Supporting partnership programmes to improve livestock-based livelihoods in the tropics

CTLGH

Dairy Genomics

- Applying genomics for increased livestock productivity and a more sustainable environment

Poultry Genomics

- Improving the productivity and flock dynamics of poultry in the tropics

Small Ruminant Genomics

- Using genomic tools to enable sustainable community-based breeding programs and conserve genetic diversity in tropical sheep and goat populations



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Centre for
Tropical Livestock
Genetics and Health



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<https://www.ctlgh.org/>

One Health and wildlife



The health of wildlife and recovery of biodiversity must be part of One Health frameworks

Healthy ecosystems

- Wildlife can be reservoirs of important domestic animal or human diseases
- Domestic animal and human diseases are an important conservation threat to many wildlife species
- Disease emergence and spread is being driven by wider processes such as habitat loss, agricultural intensification, climate change, wildlife trade and persecution
 - Avian influenza virus in seabirds
 - Leprosy in red squirrels
 - Disease dynamics at the wildlife–livestock interface: Trypanosomiasis
 - Pathogen transmission between scimitar-horned oryx *Oryx dammah* and domestic ungulates



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<https://medicine-vet-medicine.ed.ac.uk/one-health>

Zoonotic disease: Rabies



Taking interdisciplinary
approaches to disease
management

Treating a killer

- Rabies is a zoonotic disease that kills ~ 60,000 people annually
- > 99% of human deaths are from canine rabies, 95% of which occur in Asia and Africa and mostly affect those in poverty
- Free-roaming dogs can transmit **zoonotic disease**
- Canine vaccination reduces human disease
- Working with in-country partners University of Edinburgh help develop new solutions, including:
 - Data capture tools
 - Rabies surveillance and in-country genomic sequencing
 - New vaccination approaches
 - Testing and evaluating dog population management strategies



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INTERNATIONAL
RABIES TASKFORCE

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Helen Fielding, The Roslin
Fred Lohr, Mission Rabies

One Health AMR surveillance



Supporting the development and testing of blueprints for a unified AMR surveillance

Fleming Fund Fellowships

Mission

To support the implementation and evaluation of National Action Plans through equitable training and research

Partners



Uganda



Kenya



Malawi



Zambia

Targets to 2025

1. 59 Fellows trained
2. 4 country-tailored OH surveillance plans
3. 12 AMR policy briefs
4. 8 peer reviewed publications

Funding



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Multidisciplinary Social Sciences

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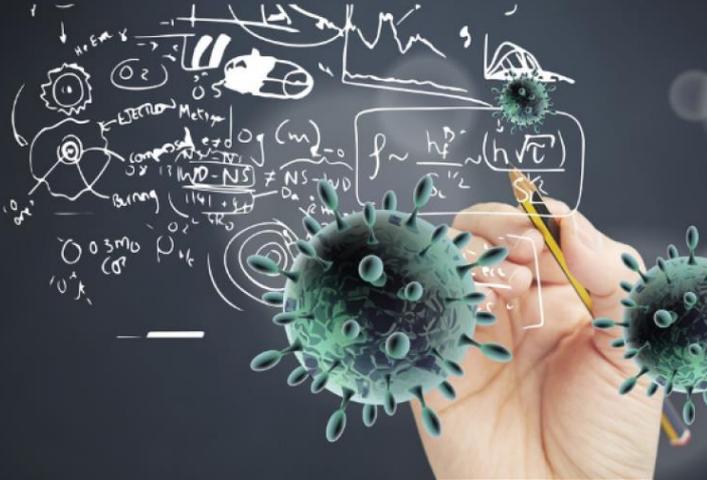
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Centre for Biomedicine, Self and Society



Spearheading interdisciplinary research in bioethics, social aspects of medicine, and the medical humanities

Mission

- **Support** research in the social sciences of medicine and health humanities
- **Develop** innovative approaches to collaboration, stakeholder, and policy and public engagement related to biomedical practice, ethics, regulation and policy
- **Generate** rapid, insightful, and practicable analyses of current and emerging concerns in biomedicine and health
- **Engage** communities in thoughtful conversations about transformations in healthcare, biomedicine, and the social sciences and humanities



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<https://usher.ed.ac.uk/biomedicine-self-society>

One Health and Society Network



Remaking One Health:
Decolonial Approaches to Street Dogs and Rabies
Prevention in India.

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DOI: 10.1002/hs2.2975

SPECIAL ISSUE PAPER

Zoonotic diseases: New directions in human-animal pathology

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Abstract

Zoonotic diseases—human diseases of animal origin—represent one of the world's greatest health challenges, both today and in the past. Since the Neolithic, zoonotic diseases have been one of the major factors shaping and influencing human adaptation. Archaeology is ideally situated to provide the long view on human-animal-pathogen relationships through combining cultural, environmental and biological datasets, yet long-term studies of linked human and animal records have often been overlooked and undertheorised. The seven papers in this special issue 'Zoonotic diseases: New directions in human-animal pathology' cover a range of diseases caused by bacterial, viral, and parasitic pathogens, from case studies drawn from across Europe, Asia, Africa and the Americas. They speak to the diversity of human-animal-environment interactions that shaped disease emergence and transmission. They also review methodological advancements relating to disease identification and interpretation and discuss interdisciplinary approaches to effectively investigate these complex processes in the past. This introduction highlights their key themes and outcomes and identifies research priorities moving forward.



14 – 18 years old? Your food choices can help save our planet...

RECIPES for RESILIENCE

www.cyen.org/food4climate

Caribbean Food Stories, Online Games, Song Writing

Future Organisms

Synthetic genomics and responsible innovation in the UK, the USA and Japan

Bringing critical expertise,
insights and perspectives

People and society

- Unique range of expertise: over 40 scholars from across the social sciences, arts and humanities disciplines with an interest in One Health challenges
- In depth knowledge on more than 20 countries in the Global North and South
- Experience of a wide range of innovative quantitative and qualitative research methods



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EDCMA
SOMA



innogen



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Contact – Dr Rebecca Marsland
(r.marsland@ed.ac.uk)

Edinburgh Centre for Medical Anthropology



Bringing critical expertise, insights and perspectives

People and society

The Edinburgh Centre for Medical Anthropology (EdCMA) is a world leading academic unit dedicated to the anthropological study of the body, health, and medicine.

Medical Anthropology, a subfield of social anthropology, applies anthropological ideas, comparative theories and methodologies to the study of global health problems.



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Training & Professional Development

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Multidisciplinary training in One Health



Teaching and training provide the foundation for the implementation of Health and Care

Education and training

- One Health workforce required to protect and sustain the health and well-being of life on earth
- Requires training in inter- and trans- disciplinary and systems thinking
 - values and attitudes
 - skills
 - knowledge and awareness
- Innovative educational programmes across the natural and social sciences, arts and humanities
 - Undergraduate
 - Postgraduate
 - Professional development



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For more info:

<https://medicine-vet-medicine.ed.ac.uk/one-health>

Postgraduate Taught programmes



The University of Edinburgh offers wide range of on-campus and online courses in One Health and Infectious Diseases that reach a global audience

Topics

- Global Health
- Infectious Diseases
- Animal health and wellbeing
- Wildlife and conservation
- Environmental health
- Sustainability
- Food security and nutrition
- One Health



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Doctoral Training in Infectious Diseases



Interdisciplinary PhD programmes build expertise across fundamental, clinical, social and behavioural sciences

Training and connection

Interdisciplinary PhD programmes:

- Hosts, Pathogens and Global Health
- One Health Models of Disease – Science, Ethics and Society
- Integrative One Health Solutions – joint with Leiden University Medical Centre

Una Europa – Igniting a University of the Future



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HP Hosts, Pathogens
& Global Health
Four year PhD Programme



One Health
Models of Disease
Science, Ethics and Society
Four year PhD Programme



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For more info:

<https://medicine-vet-medicine.ed.ac.uk/one-health>

Integrative One Health Solutions



Joint PhD programme
with Leiden University
Medical Centre

Integrated learning

- AMR, Emerging Infectious Diseases, Vulnerable hosts
 - Immunometabolism, glycobiology
 - Genome editing, population level clinical data sets, microbiome
 - Comparative biology, large animal models, human challenge models
- Vaccines, personalized medicine, host-based therapies, POC tests
- GMP facilities, Healthcare technology Accelerator facility



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<https://medicine-vet-medicine.ed.ac.uk/one-health>

Edinburgh One Health and Una Europa



An alliance of eleven leading European research universities with global reputation and reach

Una Europa

Una Europa aims to draw on collective strengths to create a truly European inter-university environment.

- Opportunities for students and staff to study, collaborate and research
- 6 key focus areas
 - One Health
 - Data Science and Artificial Intelligence
 - Sustainability
 - Future Materials
 - Europe and the World
 - Cultural Heritage
- Leading inputs of **One Health** Self Steering Committee by University of Edinburgh



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FCDO, SNT conference
12 February 2026

More information
<https://global.ed.ac.uk/partnerships/networks-alliances>