



ONE WORLD ONE HEALTH ONE TEAM

An invitation to philanthropic partners to support
world-enhancing research and education



INTRODUCTION FROM STUART REID, PRINCIPAL



As a pioneer of the One Health approach, the Royal Veterinary College (RVC) is forging important partnerships with leaders in human medicine and the social sciences. We lead research programmes which are recognised and funded by organisations and initiatives such as the Global Challenges Research Fund, UK Research and Innovation, EU Government, Wellcome Trust and the Gates Foundation.

Our science is addressing some of the most important global challenges affecting the livelihoods of some of the poorest communities worldwide.

To enable this journey of discovery, we are developing facilities that inspire and promote collaboration between our scientists, clinicians and external partners, empowering our students to become the One Health leaders of the future, equipped to tackle the global challenges faced by society.

The £45 million development of the Hawkshead Campus is already underway and will bring together the research, educational and clinical aspects of our endeavours. We have already raised £40 million from a combination of private investment and prudent organisational savings, and we now invite our philanthropic partners to join us in supporting this important initiative and the next chapter in the RVC's contribution to a safer, healthier world for all.

“We are proud to be early supporters of the Science for the Planet campaign to build an environment (at the RVC) optimised to educate and inspire the next generation of veterinary clinicians and scientists.”

EBM Charitable Trust, campaign partner

WHO WE ARE

CUTTING EDGE RESEARCH DELIVERING GLOBAL IMPACT

The RVC is a world-leader in the education and training of veterinary medicine, veterinary nursing, and biological science students. The RVC is the top ranked veterinary school in the world (QS World Rankings by Subject 2019) achieving perfect scores for academic staff and research impact, and received a TEF Gold Award in 2017 for the quality of its teaching. The RVC is also ranked first in the UK, by its students, for providing the best quality courses.

Alongside teaching and learning, the RVC is at the forefront of veterinary research, and is driving important advances in veterinary epidemiology, disease control, the comparative aspects of evolution, physiology and genomics, informing advances in veterinary and human medicine, leading to improved health and welfare. In the most recent Research Excellence Framework Exercise, nearly 80 percent of our research was rated world-leading or internationally excellent, making the RVC the leading veterinary-focused organisation in the country.

The RVC is also home to Europe's largest small animal referral teaching hospital, one of the UK's leading equine hospitals, a rapidly expanding specialist exotics service and two first opinion companion animal practices. All of the RVC's clinical services have recently been rated as 'Outstanding' by The Royal College of Veterinary Surgeons' Practice Standards Scheme.



PAST, PRESENT AND FUTURE

SERIOUS ABOUT SCIENCE SINCE 1791

For almost 230 years, the RVC has led the field of veterinary science. This philanthropic campaign – **Science for the Planet** – will fund a new building to support our pioneering work which brings together teams of clinicians, researchers, academics and students to consolidate our global scientific impact and bring significant benefits to people, animals, societies and environments.



1791

In 1789, on the death of the famous racehorse **Eclipse**, veterinary expertise was needed to understand the cause of his death and the secret of his success. Frenchman, Charles Benoit Vial de St Bel recognised the need for a better understanding of animal husbandry and disease and as a result of his work, in 1791 the Veterinary College, London, was built on the current site of the Camden Campus.

1896

Earliest diagnostic **radiograph** in veterinary literature submitted by **Hobday**: foreign body adjacent to elbow in a cat

1934

Olga Uvarov, first female President of the RCVS, qualifies from the RVC

1933

Beaumont Animals' Hospital opens

1949

The RVC becomes a College of the **University of London**

1944

Walter Plowright graduates from the RVC. As a leading pathologist, he developed the techniques that revolutionised vaccine production. He received Fellowship to the Society of London for his work which resulted in the **eradication of rinderpest** in 2001

1982

The **Animal Care Trust (ACT)** launches with the Queen Mother as patron

1790

1800

1900

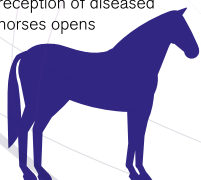
1950

1980

1990

1793

Infirmary for the reception of diseased horses opens



1875

The Veterinary College, London is granted its first **Royal Charter** and formally becomes the Royal Veterinary College (RVC)

1879

Establishment of the Cheap Practice Clinic, later known as the **Poor People's Out-Patients Clinic**

1891

John McFadyean joins as Professor of Pathology and Bacteriology, and establishes a research institute in animal pathology

1937

Mary Brancker qualifies from the RVC, later to become the first woman **President of the British Veterinary Association**

1955

The College needs more space for its expanding student numbers and portfolio of work and so acquires an estate in Hertfordshire to provide a new field station; today our modern and vibrant **Hawkshead Campus**

1995

Establishment of purpose-built facilities for pathology at Hawkshead in the **Mill Reef Pathology Building**, opened by the Princess Royal

ONE WORLD

CUTTING-EDGE RESEARCH DELIVERING GLOBAL IMPACT

The quality and breadth of our veterinary and biomedical science research demonstrates the RVC's commitment to improving human and animal health and welfare, and the important role that veterinarians and biological scientists play on the international stage.

Our approach extends from understanding the molecular basis of disease, through whole animal clinical research to intervention and control at the level of the population. Our underpinning disciplines include animal welfare, biomechanics, genetics, bioinformatics, pathology and epidemiology, and public health.

OUR IMPACT 1

Schistosomiasis, an intestinal and urogenital infection caused by a parasitic worm that lives in fresh water, affects the poorest people and their livestock in sub-Saharan Africa. Environmental anthropogenic changes have led to a hybridisation between the animal and human schistosomes. Our team, led by **Professor Joanne Webster**, was responsible for the design, implementation and evaluation of large-scale sustainable control programs, which contributed to changing the World Health Organization's (WHO) strategic plan and to a positive vision for eliminating the disease as a public health problem by 2025.

OUR IMPACT 2

In our Structure and Motion laboratory, **Professor Richard Bompfrey**'s research into the flight mechanisms and techniques used by birds and insects is providing a better understanding of aerodynamics than ever before. His findings and the resulting bio-inspired technologies are being applied in aeronautics, the aerospace environment and the wider science community.

OUR IMPACT 3

In 2019, the RVC announced the launch of the £20M **One Health Poultry Hub**, funded by the Global Challenges Research Fund of UK Research and Innovation.

The One Health Poultry Hub brings together an international team of laboratory, clinical, and social scientists to address the rising demand for poultry meat and eggs in developing countries, while minimising risk to international public health. Unfortunately, the demand and increased production creates conditions in which animal diseases can spread to humans, including bacterial food poisoning and strains of avian influenza with epidemic or pandemic potential. The Hub will have impacts on human health, animal welfare and other issues such as antimicrobial resistance.

1998

Modern dairy unit opens at the College Farm

First degree programme in **Veterinary Nursing** established jointly between RVC, the College of Animal Welfare and Middlesex University

2000

2001

2001

London Bioscience Innovation Centre opens at Camden, now home to over 60 biotechnology companies

2002

The RVC is the first UK veterinary school to be approved by the **European Association of Establishments for Veterinary Education (EAEVE)**

1999

The RVC is the first UK veterinary school to be granted approval by the **American Veterinary Medical Association**



2005

The **Animal Welfare Research Centre** opens

2004

A new research centre opens in Camden

The world's first veterinary clinical skills laboratory opens

2006

The new **Structure and Motion Laboratory** opens

2012

RVC designated by the Food and Agricultural Organization (FAO) of the United Nations as an 'FAO Reference Centre for veterinary epidemiology'

2010

The new Equine Hospital opens

2011

HRH The Princess Royal officially opens **Teaching and Resources Centre (TaRC)**

2020

2019

RVC recognised as the **leading veterinary school in the world** (QS World Rankings by Subject)

RVC named a **Collaborating Centre** of the World Organisation of Animal Health

2017

The RVC receives a **Gold award** from the Teaching Excellence Framework (TEF)

ONE HEALTH

Many challenges, many minds, and many benefits

Infectious diseases can pass between animals and humans, while food production, human diet and community stability can be disrupted by diseases that also infect livestock and wildlife. Emerging pathogens, such as COVID-19 and avian influenza, emphasise the threat posed by these diseases.

One Health recognises the relationship between health and disease at the human, animal and environmental interfaces, and has become an important focus in both medical and veterinary science. It promotes a 'whole ecosystem' view of health hazards, and demands a systemic change of perspective in the management of risk.

The RVC is ideally positioned to have real impact, bringing professionals from governments,

international public health and veterinary authorities together with those with links to wildlife and environmental agencies.

Furthermore, our clinical research and services also have translational benefits. The philosophy of bringing translational solutions from our clinical caseload addresses the needs of our 'bench to bedside' approach and ensures that as we seek cures to naturally occurring diseases in our animal populations, we also consider the benefits to human medicine.



OUR IMPACT 4

Since its emergence, avian influenza has been recognised as a very serious threat to human life. In 2003, the RVC's **Veterinary Epidemiology, Economics and Public Health (VEEPH)** team, in collaboration with Imperial College and Université Libre de Bruxelles, embarked on a series of community-based research programmes to develop recommendations to fight the disease globally.

The findings have had profound social and economic implications, enabling more efficient allocation of resources for disease control and reducing the devastating economic damage from the culling of domestic birds.



ONE TEAM

The RVC attracts talented veterinary and biological scientists, academics and students who work together in interdisciplinary teams. By collaborating with a wide range of partners, our community is able to make real impact in tackling challenges that require the **One Health** approach.

Our team collaborates with clinicians and researchers from all over the world to conduct ground-breaking research. We also work with other universities, industry and governments providing vital knowledge exchange and maximising the impact of that knowledge and the innovation that it drives.

Our undergraduate students benefit from exciting and challenging research opportunities by working alongside our experts. They are also exposed to the real-life application of research often working with clients, the profession, speaking at international conferences and interacting with corporate partners.

Our specialist postgraduate programmes help us to develop future researchers and professionals with advanced knowledge who go on to work in industry, government and teaching, both within the UK and internationally.

The Hawkshead Campus development project will enable us to house our community in an environment that will encourage and build on this approach, at the same time as inspiring the next generation of clinicians and scientists.

OUR IMPACT 5

Duchenne Muscular Dystrophy (DMD) is the most common fatal human genetic disorder diagnosed in childhood. It is also fatal when it occurs in dogs. RVC research into cutting-edge corrective therapies is predicted to bring benefits to both humans and dogs suffering from DMD.



MAKING A GOOD THING BETTER

In order to facilitate the world-changing research and innovation being carried out by our multidisciplinary teams, the RVC has begun work on this major redevelopment of the Hawkshead Campus.

The project will significantly upgrade teaching and learning facilities, research and working space, and provide specialist infrastructure such as scientific equipment, fully equipped laboratories, animal houses and an incubator for small and medium-sized enterprises (SMEs).

Cost

The initiative will cost a total of £45m.

The RVC has already secured £40m from the following:

- £23m investment loan from Sun Life
- £10m contribution from College cash reserves
- £7m from Hertfordshire Local Enterprise Partnership toward the establishment of the Veterinary Vaccinology and Cell Therapy Hub

Timeline

Target opening date is 2021

More than just a building

This new facility will accommodate both researchers and teaching staff, reinforced by a network of support staff and learning opportunities for RVC students.

What are we creating with the Hawkshead Campus project?

- A building that will bring together existing teaching and research facilities
- A Veterinary Vaccinology and Cell Therapy Hub that will accelerate the One Health approach, boosting the development of next-generation vaccines and cell therapies to combat key animal pathogens and ultimately protect humans
- New teaching laboratories, improved and extensive social learning spaces, and a new 400-capacity lecture theatre enabling veterinary science and veterinary nursing students to study together for the first time
- Research and innovation space for SMEs
- Improved office and teaching space for more than 300 staff



OUR IMPACT 6

Professor Roger Smith's pioneering exploration and application of new treatment options for tendon injuries in animals was applied to horses for the first time at the RVC. This has revolutionised the treatment of tendon injuries using stem cell therapy. Our scientists are now expanding our stem cell research to benefit dogs, cats and humans.

OUR IMPACT 7

Professor Dirk Werling, is working with collaborators from the London School of Hygiene & Tropical Medicine (LSHTM), on the development and testing of a vaccine for *Streptococcus suis*, a disease capable of transmission from pigs to humans.



West entrance

MAKING IT HAPPEN

We invite our philanthropic partners to help us raise £5million to develop this centre of excellence, and to advance our internationally competitive research to benefit society, the environment and the health of humans and animals.

By making a gift, you will be supporting an environment that brings together academia and industry that will have a wide-reaching impact on some of the most significant challenges facing society.

Scale of giving

Number Gifts Required	Annual Gift £	Total 5 Year Commitment £	Total Gift Total £	Example Naming and Giving Opportunities
1	300,000	1,500,000	1,500,000	£1,500,000 central atrium
2	100,000	500,000	1,000,000	£500,000 new lecture theatre
3	50,000	250,000	750,000	£250,000 new dissection lab
5	20,000	100,000	500,000	£100,000 open plan research and teaching labs
10	10,000	50,000	500,000	£50,000 new laboratory space
20	5,000	25,000	500,000	£25,000 new teaching and learning spaces
25	2,000	10,000	250,000	£10,000 equipment or dedicated scholarships
66 gifts			£5,000,000	

TYPES OF GIFT

Gifts may be made in cash as a one-off or may be pledged over a period of time (maximum five years). If you are a UK taxpayer, you can pledge your gift tax-effectively making the most of Gift Aid and, in some cases, higher rate tax relief. We also accept gifts of shares and living legacies.

WAYS TO DEDICATE YOUR GIFT

If you choose to make a significant gift, you will be offered naming opportunities within the new facility. These opportunities are available for research areas, such as laboratories and specialist spaces; teaching areas, such as the new lecture theatre; and social learning spaces.

GIFT ACKNOWLEDGEMENT

All gifts will be acknowledged in line with the donor's preference and there will be a visual celebration within the atrium to honour all those who have contributed towards the 'Science for the Planet' campaign 2019-2020.

“Through my association with The NINISKI and ALBORADA Trusts, I have been proud to support the Royal Veterinary College for a number of years and was very impressed when I first heard about the Science for the Planet Campaign.

“As a world-leader in the education and training of veterinary clinicians, nurses and biological scientists and researchers, RVC was ranked the number one veterinary school in the world in 2019. The Science for the Planet campaign will fund new facilities at the heart of the Hawkshead Campus in Hertfordshire which will bring together interdisciplinary teams of researchers, teaching staff, students and local industry to apply a One Health approach to veterinary medicine.

“I am delighted to give my support to such an important project for the RVC.”

Kirsten Rausing



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The Royal Veterinary College is a charitable body but is exempt from registration with and oversight by the Charity Commission under the terms of the Charities Act 2011 and therefore has no charity number. It is subject to the legal rules applicable to charities under English Law and to the general provisions of the Charities Acts. The College is treated as an exempt charity because it was created under Royal Charter and its principal statutory regulator, OfS, oversees its compliance with charity law.

The College is also the sole trustee of the Animal Care Trust, which is an independent charity that is fully registered with the Charity Commission.