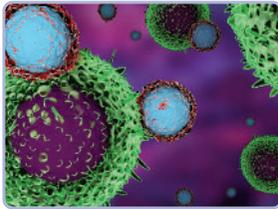


New Research into Immunotherapy for Prostate Cancer

- New treatments for Prostate Cancer are needed urgently to avoid the unwanted side effects and specifically target the tumour and associated metastases.
- Our Targeted Therapy Group at the University of Surrey will use their expertise in oncolytic (cancer- killing) viruses to develop a new virus specifically to treat prostate cancer. They are one of the few Groups in the UK conducting this type of research.
- The oncolytic virus will infect the tumour cells and cause them to pop open and die. The cells die in a special way which stimulates the patient's immune system to recognise the cancer cell.
- The Group will combine the oncolytic virus with immune "checkpoint inhibitors", which are already in use for some skin and lung cancers. They work by taking the brake off the immune system so the body can keep on attacking the tumour. The immune cells travel to the site of infection and begin the process of destroying the tumour.
- The immune system will then remember these cancer cells, so should the tumour later metastasise, it will send Toxic T cells to kill the cancer cells.



Meet the Team



Professor Hardev Pandha – Head of Targeted Cancer Therapy and Urological Oncologist at the Royal Surrey County Hospital



Dr Nicola Annels – Senior Research Fellow



Dr Guy Simpson – Research Fellow

The Prostate Project Charity

The Prostate Project is a registered, Guildford-based charity that has raised more than £8 million over the last 20 years. We are dedicated to raising greater awareness of prostate cancer, improving treatment and care for patients and providing support for patients' families and friends.

We support Royal Surrey County Hospital & St Luke's Cancer Centre in Guildford and Frimley Park Hospital. We also support Prof. Hardev Pandha's research team at the University of Surrey which has grown to become one of the largest charity-funded research groups in the UK. The charity has very low administration costs – currently around 5% – ensuring that 95% of all donations go directly to the point of need.

A major achievement of the last 7 years has been our joint funding of a world-class NHS Urology Centre at Royal Surrey. Opening in late 2018, it will be one of very few dedicated Urology facilities in the UK and will attract some of the finest scientists, clinicians and technicians in the country. Having a permanent clinical trials unit in the new Centre will make the research team's patient contact far more effective.

**PLEASE HELP FUND THIS
GROUNDBREAKING RESEARCH**

Donations can also be made via our website.



giving men a better chance of beating prostate cancer

Follow us on Facebook Twitter

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Website: www.prostate-project.org.uk
Registered Charity Number: 1078523



Funding Research into Immunotherapy for Prostate Cancer



**Targeted Cancer Therapy Group
University of Surrey**



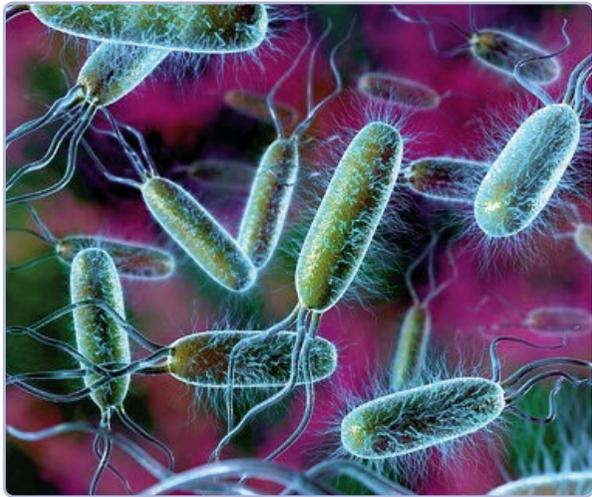
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Cancer
Research
Institute

Cancer and our Immune System

- Our immune system keeps us healthy and protects us from the onslaught of foreign invaders such as viruses and bacteria that we encounter in our everyday lives.



- In fact, our immune system is not limited to fighting infection but is able to identify any form of unfamiliar protein that appears within the human body including mutant proteins on the surface of cancer cells. In most cases, the immune system's natural capacity and surveillance mechanisms are able to detect and destroy abnormal cells and prevent the development of many small cancers.
- However, as they grow and evolve, cancer cells are sometimes able to avoid destruction by the immune system by continually altering the proteins on their cell surface to avoid detection or by releasing chemicals which suppress the immune response.

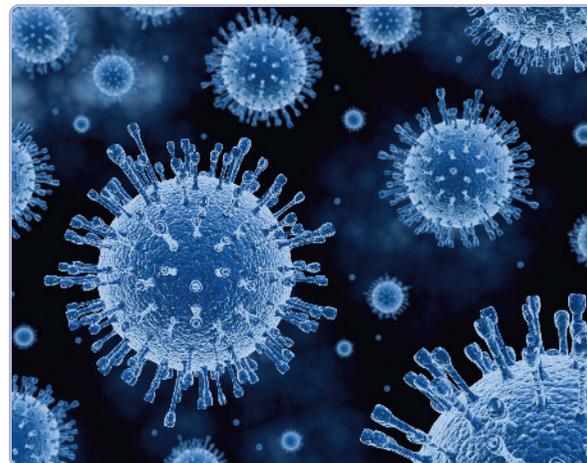
Cancer Immunotherapy

Viruses and immunotherapy

- Since the mid-1800s, there has been a steady trickle of reports describing how tumours have shrunk or even disappeared after patients were infected with a natural virus. These include patients with leukemia who have gone into brief remission following chicken pox infection or patients with Hodgkin's Disease or Burkitt's Lymphoma whose tumour disappeared following infection with measles virus.
- Using viruses to treat cancer was first suggested at the beginning of the twentieth century when doctors saw the potential for virus infection to kick start the immune system into recognising and killing a patient's tumour, so called immunotherapy.

Oncolytic Viruses

- Currently the most widely used viruses for immunotherapy are oncolytic (or cancer-killing) viruses which are able to specifically infect and kill cancer cells and leave normal cells unharmed.



I would like to make a donation to help save men's lives from prostate cancer:

£10 £20 £50 £100

Please make cheques payable to "The Prostate Project" and send to address below, or donate via our website.

Gift Aid

Boost your donation by 25p of Gift Aid for every £1 you donate

Gift Aid is reclaimed by the charity from the tax you pay for the current tax year. Your address is needed to identify you as a current UK taxpayer.

In order to Gift Aid your donation you must tick the box below:

I want to Gift Aid my donation of £ _____ and any donations I make in the future or have made in the past 4 years, to **The Prostate Project**. I am a UK taxpayer and understand that if I pay less Income Tax and/or Capital Gains Tax than the amount of Gift Aid claimed on all my donations in that tax year it is my responsibility to pay any difference.

My Details

Title _____ First name(s) _____

Surname _____

Address _____

Postcode _____

Email _____

Date _____

Please let us know if your tax circumstances or name/address change so that we can update our records.

The details you provide will be kept on our database under the terms of our Privacy Notice which can be viewed on our website. They can be changed or removed at any time by contacting us at the address below. We will never share your details.

Please tick this box if you would like to receive news about our appeals and activities.

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Godalming, Surrey, GU7 1NZ

