



Cambridge Society for the Application of Research

Churchill College  
Storey's Way  
Cambridge  
CB3 0DS

[www.csar.org.uk](http://www.csar.org.uk)

# Imaging biology, and the treatment of cancer patients

(Detecting early responses of tumours to treatment)

Professor Kevin Brindle

Department of Biochemistry, University of Cambridge  
and  
Cancer Research UK Cambridge Research Institute,  
Li Ka Shing Centre, Cambridge.

7.30 p.m., TUESDAY 16<sup>th</sup> February, 2010

The Wolfson Lecture Theatre, **Churchill College**, Storey's Way, Cambridge

**Please note that this lecture will take place on a TUESDAY**

**Professor Brindle writes:**

"Patients with similar tumour types can have markedly different responses to the same therapy. The development of new treatments would benefit significantly from the introduction of imaging methods that allow an early assessment of treatment response in individual patients, allowing rapid selection of the most effective treatment.

We have been developing non-invasive and clinically applicable magnetic resonance-based methods for detecting the early responses of tumours to therapy. Primarily, these are methods for detecting tumour cell death; the level of tumour cell death following drug treatment is a good predictive indicator for treatment outcome. By monitoring tumour cell death we may get an indication of whether a particular drug is working very early during treatment, possibly within 24-48 hours, and long before there is any evidence of tumour shrinkage <sup>1</sup>."

1. Brindle, K. New approaches for imaging tumour responses to treatment. *Nature Rev. Cancer* **8**, 1-14 (2008).

More can be found at <http://www.bioc.cam.ac.uk/uto/brindle.html> and  
<http://www.biomed.cam.ac.uk/research/imaging.html>

## About the speaker:

Professor Kevin Brindle, is a senior group leader at the Cancer Research UK (CRUK) Cambridge Research Institute (CRI). He also holds a personal chair in the Department of Biochemistry at the University of Cambridge.

Professor Brindle obtained his BA (Biochemistry) and PhD degrees from the University of Oxford and has spent his entire research career working in the field of magnetic resonance imaging and spectroscopy. He is internationally recognized in the field of molecular imaging, and an elected member of the Council of the Society of Molecular Imaging.

Professor Brindle is a member of the Editorial Board of *Molecular Imaging* and of the Advisory Board of *Contrast Media and Molecular Imaging*.

## The Organising Secretary adds....

This promises to be an excellent and informative lecture, but perhaps not one for the faint-hearted. DON'T FORGET – **THIS LECTURE IS ON A TUESDAY!**

Coffee will be served in the Foyer outside the Wolfson Lecture Theatre as normal, from ~7pm. The lecture will start at 7.30pm sharp, and we ask that people make a special effort to be on time; late arrivals are disturbing both to the speaker and to the audience.

Best Regards  
Richard Freeman  
Organising Secretary

Phone (home) 01799 525 948  
(work) 01707 398 729 / 07500 444 985  
[richard.freeman@ntlworld.com](mailto:richard.freeman@ntlworld.com) / [richardf@exemplas.com](mailto:richardf@exemplas.com)

---

For those who would like to become **full members** of the CSAR, **Individual Membership** costs £25 for the academic year. **Family Membership** costs £35 and entitles the Member to bring a guest (including family) to any CSAR meeting. Members are also eligible to take part in our exclusive, members-only visits. These are often to places not open to the public.

Postgraduate students are eligible for **free** membership. Non-members may attend individual lectures upon payment of a fee of £3.00 each.

If you wish to join and enjoy the many benefits of membership, please complete the following, and return it with payment to a CSAR officer, or post it to Barry Thompson at the address below. Cheques payable to '**Cambridge Society for the Application of Research**' may be handed to one of our officers, or sent by post to: Barry Thompson, Cambridge Enterprise, University of Cambridge, 10 Trumpington Street, Cambridge CB2 1QA

NAME  
(and title, Prof, Mr, Ms, etc):

ADDRESS:

EMAIL:

PHONE: