



IOP Institute of Physics
In Scotland

Scottish Universities Physics Alliance

Physics and Life Sciences (PaLS) Open Day

Wednesday 27th February 2013

0930-1600

Heriot Watt University

The first in a series of SUPA PaLS theme open days featuring sessions 'Physics in the clinic' and 'Translation of PaLS research into industry', keynote talks, two networking presentation sessions and student posters.

Venue:
Heriot Watt University
Post Graduate Centre
Gait 2
Edinburgh
Eh14 4AS



Registration: <http://supapalsopenday.eventbrite.co.uk>



Welcome and Introduction

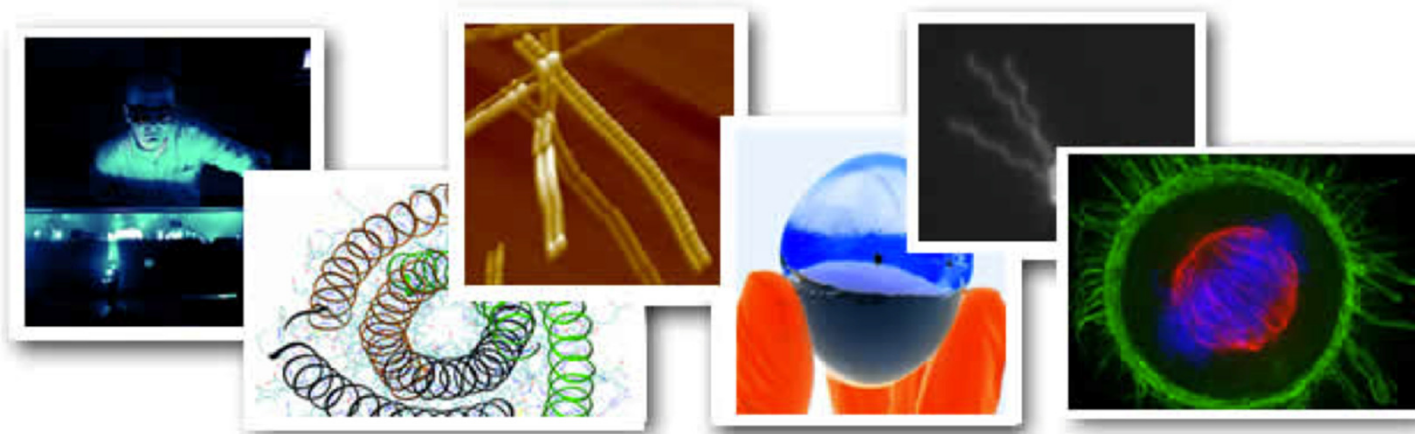
**Kishan Dholakia,
University of St Andrews**

SUPA PALS Theme Leader



Physics Scotland

Physics and Life Sciences (PaLS)



PaLS Theme

- Aims to foster networking and collaboration across Scotland
- Develop appropriate courses for the graduate community
- Enable and enhance Knowledge transfer
- Enable linkages to other communities. Today:

Physics in the clinic

Translation of PaLS research into industry

PALS theme: Physics and the Life Sciences.

SUPA Representative in your University



Timothy Newman

Professor of Biophysics & SULSA
Research Professor of Systems
Biology Cell and Developmental
Biology College of Life Sciences,
University of Dundee, Dundee

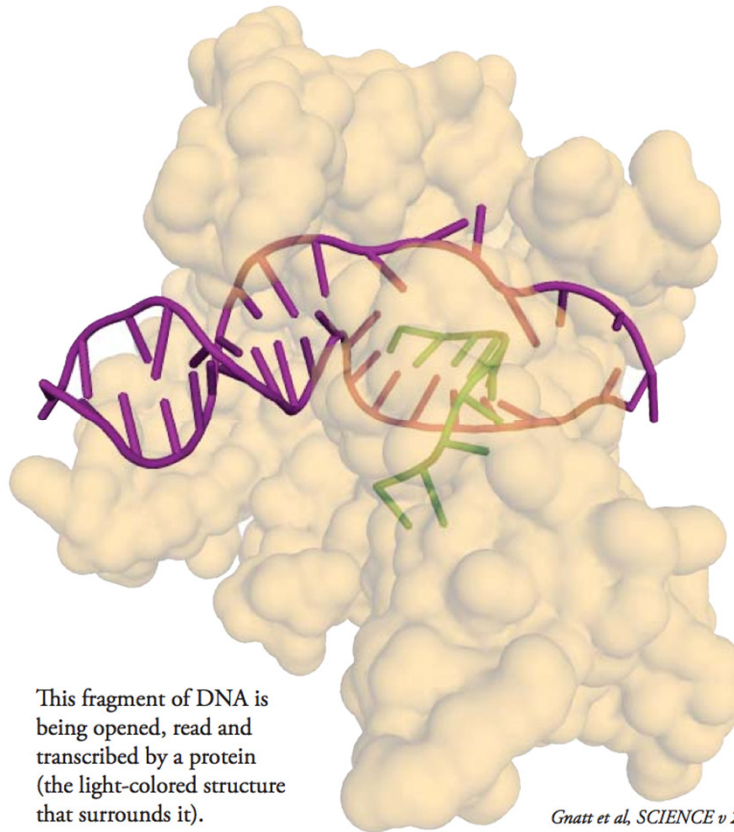


Maxim Fedorov is SUPAII
Professor of Physics and Life
Sciences. He is an expert in
computational chemical physics and
molecular biophysics, University of
Strathclyde



Physics Scotland

Physics and the Life sciences: the structure of DNA

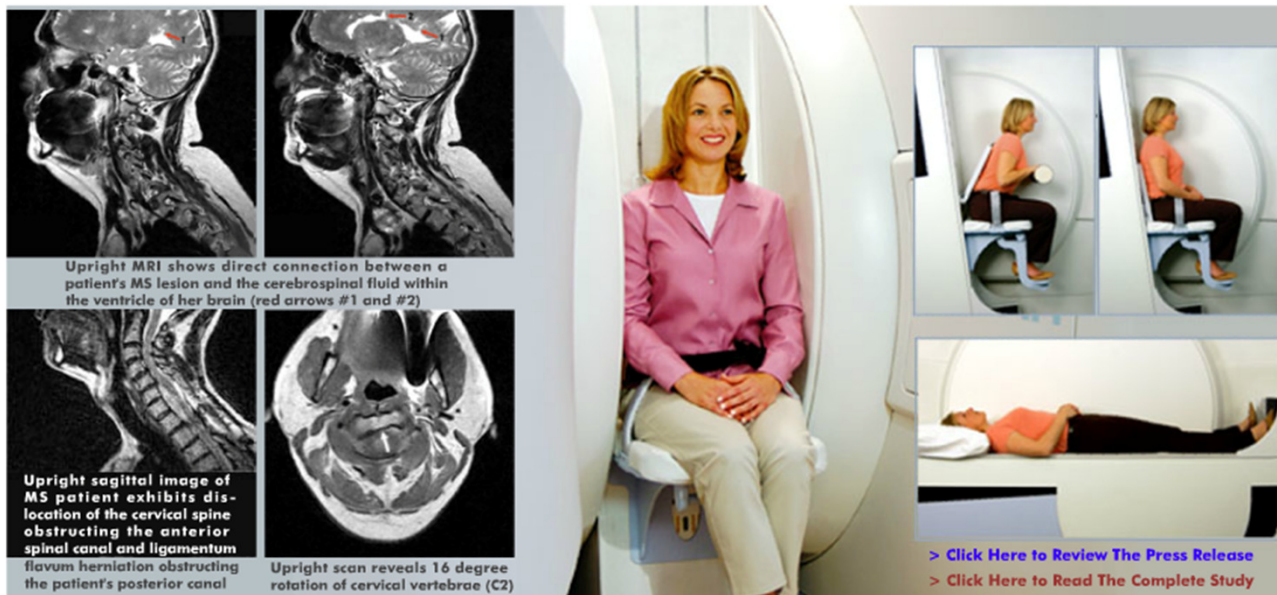


This fragment of DNA is being opened, read and transcribed by a protein (the light-colored structure that surrounds it).

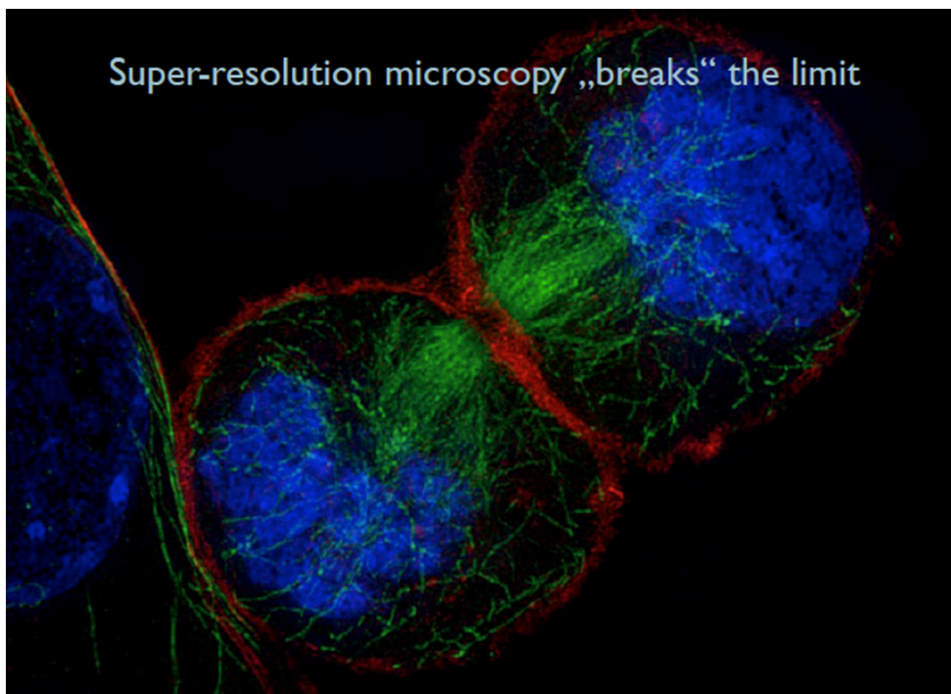
Gnatt et al, SCIENCE v 292, 1876, 2001.

Discoveries about DNA and proteins fuel progress in preventing and curing disease.

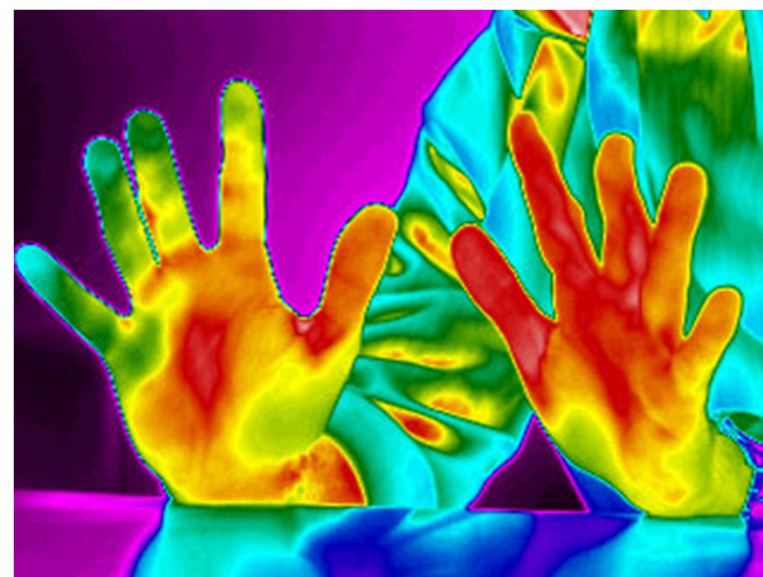
Physics and the Life Sciences: imaging



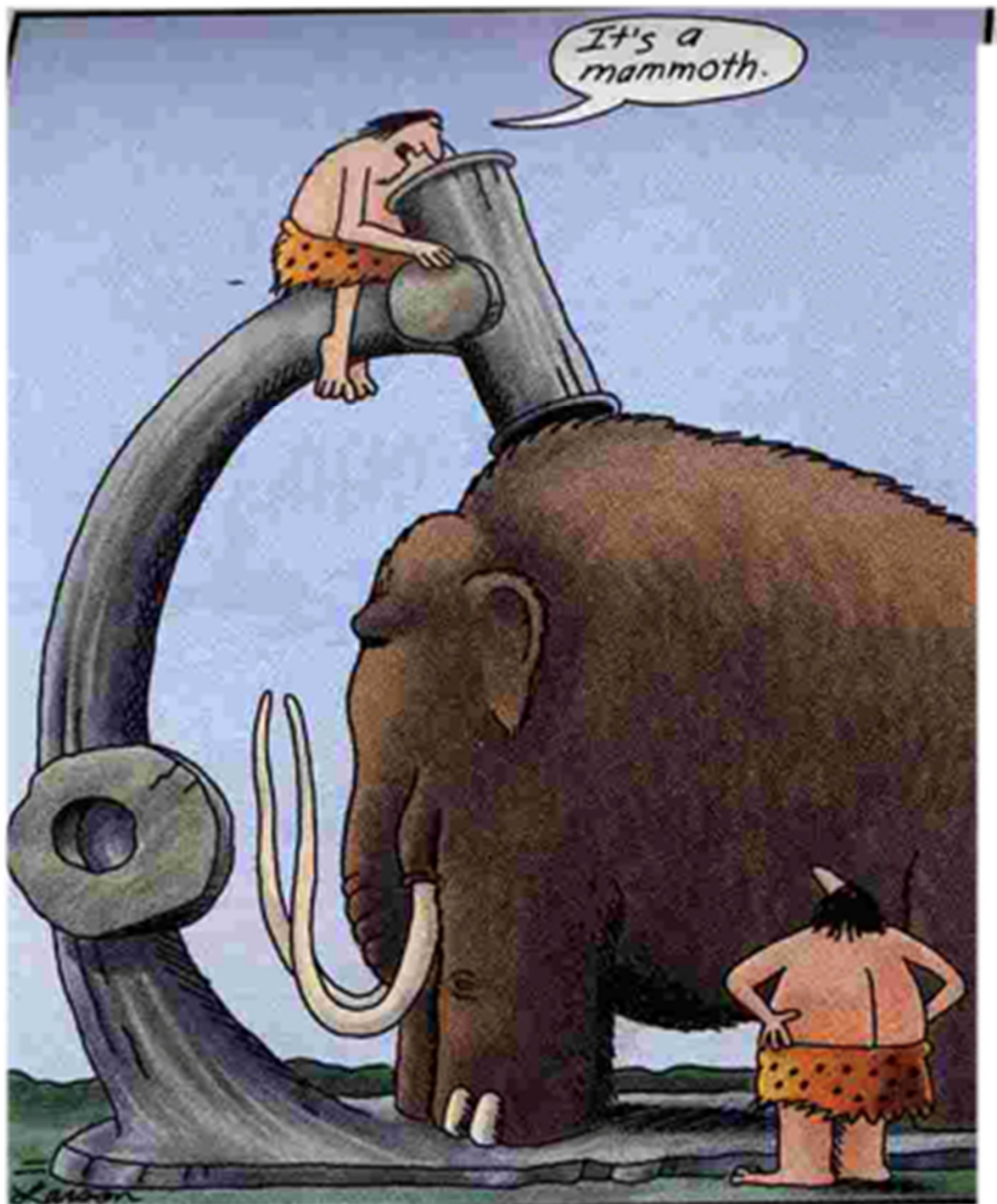
<http://www.fonar.com/>
(courtesy of the Fonar corporation)



www.stfc.ac.uk



<http://www.infraredcamerasinc.com>



Tailoring and pushing the physics to help answer your biomedical problem

Burgeoning need for interactions and discussion to help set the agenda for PaLS : a key part of today



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