

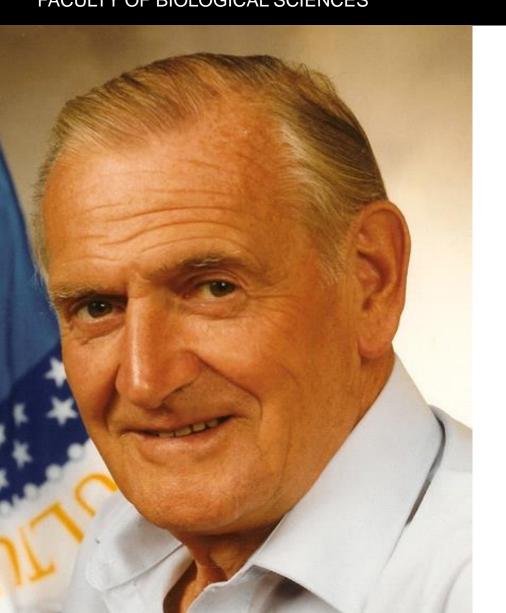
1964

The Animal Virus Research Institute (AVRI) It was very different to the TPI of today:-

- Labs mostly modified cattle sheds
- Bucolic atmosphere
- Herd of free-range geese
- 'Old Jock' the gateman in a small brick gatehouse

Institute of Molecular and Cellular Biology FACULTY OF BIOLOGICAL SCIENCES





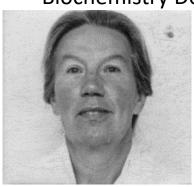
Fred Brown FRS

1925 - 2004

Biochemistry Dept., c.1970's



Donald Black



Joan Crick



Ben Cartwright



Tim Doel



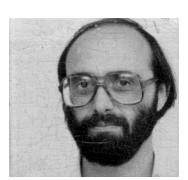
Dave Rowlands



Fred Brown



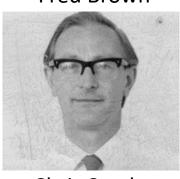
Dave Sangar



Tony Carroll



Berwyn Clarke



Chris Smale



Bryan Underwood



Eric d'Souza



FMDV purification in the 1960s



Importance of Biochemistry/Biophysics

1967-68 outbreak in UK

Associated with bones from Argentinian carcasses

Post mortem pH in bone marrow too high to inactivate FMDV

1970 – the NEW research laboratories!!!! Main Lab (recently demolished)

Air filtration for the first (and nearly my last) time.

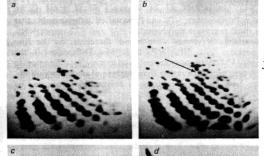
Importance of Molecular Biology

1981 outbreak in Northern France/Isle of Wight

T1 mapping of viral genome showed outbreak originated from non-inactivated vaccine.

1981 outbreak of FMD

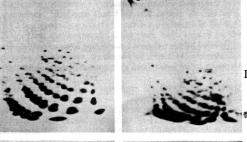
JERSEY



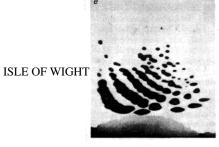
RNase T1 fingerprints of FMDV Type O RNAs

BRITTANY + LAUSANNE

BRITTANY



LAUSANNE

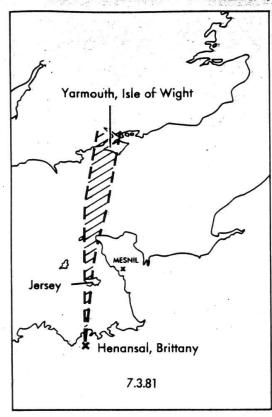


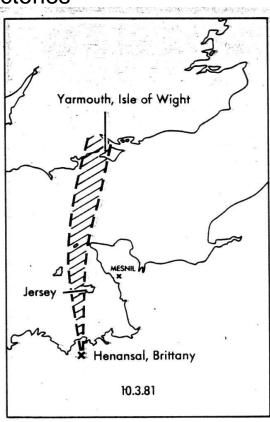


AUSTRIA

1981 outbreak of FMD

Air trajectories





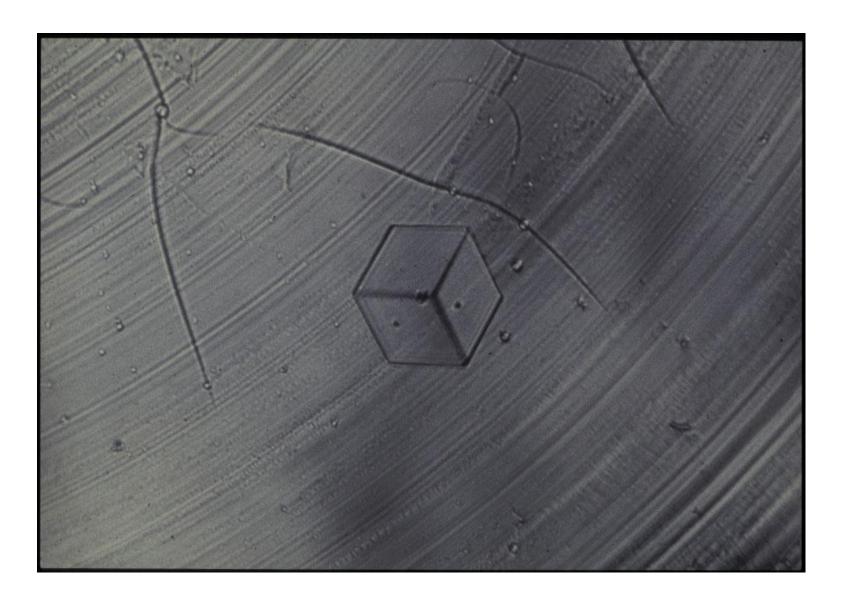
Importance of Structure

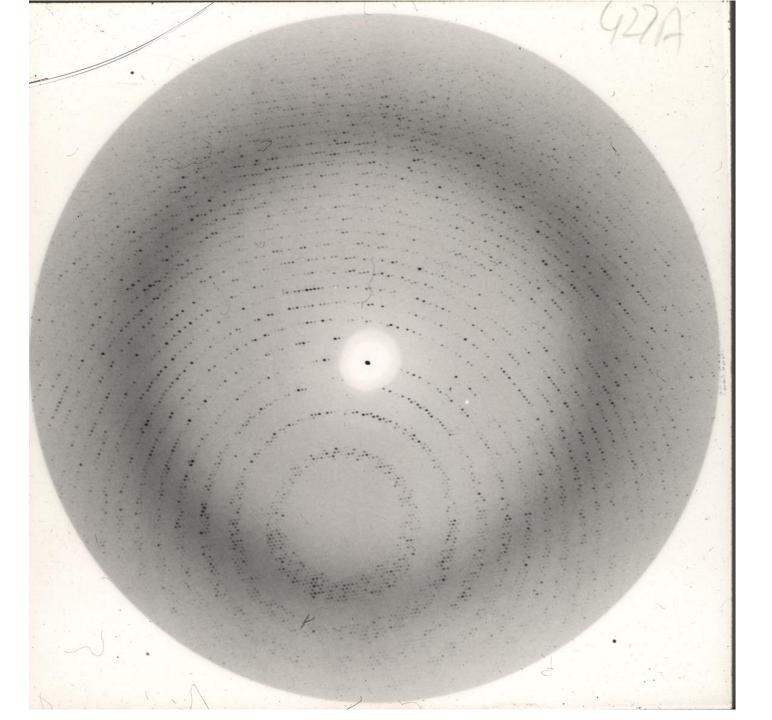
Protease hydrolysis studies had helped define antigenic determinants but more detail was needed.

1989 - Atomic structure of FMDV reported

Provides for greater understanding of antigenic structure.

Paves the way for development of virus free (VLP) vaccines.



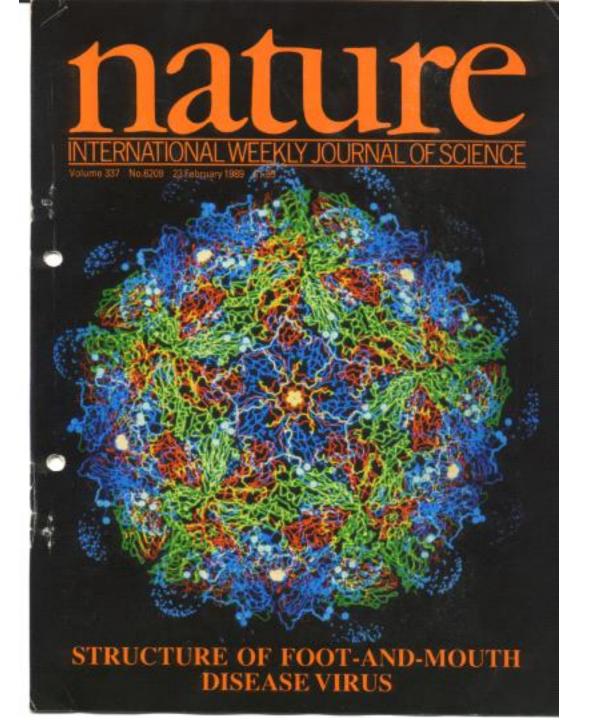






Fred Brown 'retirement' cake





12 YEARS LATER

2001 – The Big One

Pirbright on War Footing

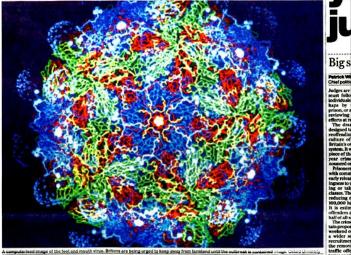
Subsequent reviews (RS) deemed infrastructure at the Institute not fit for purpose

fame, adulation and why Taylor Hackford is a knob

the rise of the Mancl music scene, watch story become a film

Patrick Chief po

This is the virus that has closed the countryside



A computerised image of the tool and mouth vires. Brittens are being arged to keep area from tamband under the outbreak is accusated maps. Colored distinct the most account of the shallow from the first the form that agents in some account the shallow from the state of the form and the state of the first that form the control when the first that form in the control when the first that form in the control when t

Clin sca

Fund to beat third world disease

Gordon Brown and Clare t will announce plans on tesearch costs.

day for a multibillion lt is intended to make up lost

dren's Fund (Unicef) to guar-antee a market for drags produced by the pharmaceuti-cal industry, and subsidise

enal fund to ground in meeting the aim of

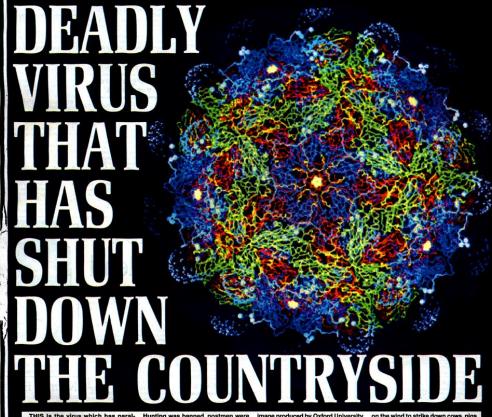


required to meet the first target if present trends continue there will be \$2.00 mills from the first target if present trends continue there will be \$2.00 mills from the first trends of the first trends of

Daily Mail

Courtney, Toni and the tackiest show on Earth





THIS is the virus which has paral-ysed the countryside and left farm-ers in fear of financial meltdown. By last night, Keep Out notices had been slapped on all farmland in Britain in a desperate battle to stop the spread of foot-and-mouth.

Hunting was banned, postmen were ordered to leave deliveries at farm gates and ramblers were warned to keep away from areas containing

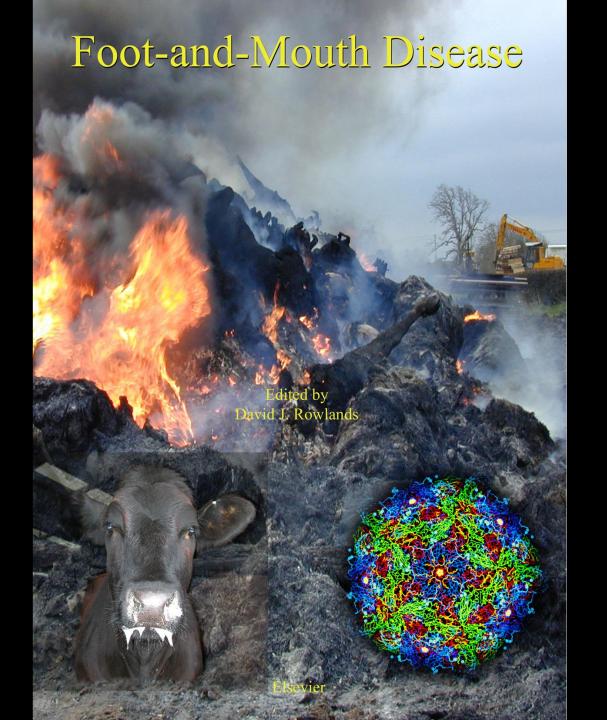
So infectious is the disease, shown here in a remarkable computerised

neighbouring areas.

image produced by Oxford University, that merely walking across an affected field can transfer it to was confirmed in Essex vesterday. It can be carried under the fingernails after contact with an infected animal.

SEE PAGES 6&7

INSIDE: Alexander 14, Ephraim 15, Femail 24-25, Dempster 47, TV & Radio 61-64, Letters 65-66, Coffee Break 78-80, City 81-85



2007 – PR disaster

Value of genome sequence analyses in determining source of 'feral' virus.

ALSO

Did it stimulate the decision to finally bring Pirbright into the 21st century?



And after work --- Gone Fishin'

