

Curriculum vitae

David James Paton

Personal Information

- Date of Birth:
- Nationality:
- Married:

Education/ qualifications

- BA, Cambridge University 1981
- Vet MB, Cambridge University 1984
- PhD in virology, Surrey University 1992

Professional experience

- Private veterinary practice in UK and Australia 1984-1987
- The Veterinary Laboratories Agency, Virology Department 1987-2001
Research officer, Senior Research officer, Head of Virology
- The Institute for Animal Health (later The Pirbright Institute) 2001-2014
Head of the FMD World Reference Laboratory, Head of The Epidemiology Division, Director of Science, Acting Director, Director of Reference Laboratories
- Main research activities: diagnosis, epidemiology, pathogenesis and control of RNA viruses of pigs, cattle and sheep

Additional professional activities

- OIE consultant on classical swine fever, transmissible gastroenteritis, equine arteritis, foot-and-mouth disease, swine vesicular disease
- Previously on editorial board of *Veterinary Research* and *Transboundary & Emerging Animal Diseases*
- Past external MSc examiner at the Royal Veterinary College and the Liverpool Veterinary School
- Secretary of the European Society for Veterinary Virology 1994-2000
- Edward Jenner Investigator 2009-2014
- OIE Ad Hoc Group on FMD 2002-2014
- Chairman, Standing Technical Committee, EuFMD 2011-2014

Awards / Publications

- G Norman Hall Medal from RCVS for research on infectious diseases 1997
- Visiting Professor in the Department of Pathology and Infectious Diseases at the Royal Veterinary College and at Sokoine University of Agriculture, Tanzania

Publications

1989

- **Paton DJ**, Goodey R, Brockman S, Wood L (1989) Evaluation of the quality and virological status of semen from bulls acutely infected with BVDV. *Veterinary Record* 124, 63.

1990

- **Paton DJ** (1990) Porcine congenital viral infections in Britain. *Pig Veterinary Journal* 27, 148-156.
- **Paton DJ**, Brown IH (1990) Sows infected in pregnancy with porcine respiratory coronavirus show no evidence of protecting their sucking piglets against transmissible gastroenteritis. *Veterinary Research Communications* 14, 329-337.
- **Paton DJ**, Brown IH, Fitton J, Wrathall AE (1990) Congenital pig pox: a case report. *Veterinary Record* 127, 204.
- **Paton DJ**, Brockman S, Wood L (1990) Insemination of susceptible and preimmunized cattle with bovine viral diarrhoea virus infected semen. *British Veterinary Journal* 146, 171-174.

1991

- Brown IH, **Paton DJ** (1991) Serological studies of transmissible gastroenteritis in Great Britain, using a competitive ELISA. *Veterinary Record* 128, 500-503.
- **Paton DJ**, Ibata G, Edwards S, Wensvoort G (1991) An ELISA detecting antibody to conserved pestivirus epitopes. *Journal of Virological Methods* 31: 315-324.
- **Paton DJ**, Sands JJ, Roehe (1991) BVD monoclonal antibodies: relationship between viral protein specificity and viral strain specificity. *Archives of Virology [Suppl 3]:* 47-54.
- **Paton DJ**, Brown IH, Vaz EK (1991) An ELISA for the detection of serum antibodies to both transmissible gastroenteritis virus and porcine respiratory coronavirus. *British Veterinary Journal* 147, 370-372.

1992

- Edwards S, Robertson IB, Wilesmith JW, Ryan JB, Kilner CG, **Paton DJ**, Drew TW, Brown IH, Sands JJ (1992) Porcine reproductive and respiratory syndrome (blue-eared pig disease) in Great Britain. *Proceedings of the American Association of Swine Practitioners* 4, 26-27.
- **Paton DJ** (1992) Bovine viral diarrhoea virus: studies of viral epitopes and of porcine infections. PhD Thesis, School of Biological Studies, University of Surrey, Guildford, UK, November 1992.
- **Paton DJ**, Brown IH, Scott AC, Done SH, Edwards S (1992) Isolation of a Lelystad virus-like agent from British pigs and scanning electron microscopy of infected macrophages. *Veterinary Microbiology* 33, 195-201.
- **Paton DJ**, Drew T, Brown IH, Edwards S, Done SH (1992) Laboratory diagnosis of porcine reproductive and respiratory syndrome (PRRS). *Pig Veterinary Journal* 29, 188-192.
- **Paton DJ**, Lowings JPL, Barrett, ADT (1992) Epitope mapping of the gp53 envelope protein of bovine viral diarrhoea virus. *Virology* 190: 763-772.
- Stafford K, Stafford Y, **Paton D**, Gamble P. (1992) Antibodies to some swine diseases in commercial piggeries in Central Zambia. *Rev Elev Med Vet Pays Trop.* 45(3-4):229-30.

1994

- Done SH, **Paton DJ** (1994) Porcine reproductive and respiratory syndrome (PRRS) clinical disease, pathology and immunosuppression. *Veterinary Record* 135,
- Kay RM, Done SH, **Paton DJ** (1994) Effect of sequential porcine reproductive and respiratory syndrome and swine influenza on the growth and performance of finishing pigs. *Veterinary Record* 135, 199-204.
- Lowings JP, **Paton DJ**, Sands JJ, De Mia GM, Rutili D (1994) Classical swine fever: genetic detection and analysis of strain differences. *Journal of General Virology* 75, 3461-3468.
- **Paton**, D.J., Sands, J.J. and Edwards, S. (1994). Border disease virus: delineation by monoclonal antibodies. *Archives of Virology* 135: 241-252.
- **Paton DJ** and Done S (1994). Congenital infection of pigs with ruminant-type pestiviruses. *Journal of Comparative Pathology* 111, 151-163.
- **Paton DJ**, Lowings PL and Ramirez G (1994) Stability of the gp53 gene of a bovine viral diarrhoea virus isolated at different times from a persistently infected steer. *British Veterinary Journal* 150, 603-607.
- Vilcek S, Herring AJ, Herring JA, Nettleton PF, Lowings JP, **Paton DJ** (1994). Pestiviruses isolated from pigs, cattle and sheep can be allocated into three genogroups using polymerase chain reaction and restriction endonuclease analysis. *Archives of Virology* 136, 309-323.

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- Becher P, Konig M, **Paton DJ**, Thiel HJ (1995) Further characterisation of border disease virus isolates: evidence for the presence of more than three species within the genus pestivirus. *Virology* 209, 200-206.
- Depner K, **Paton DJ**, Cruciere C, de Mia GM, Muller A, Koenen F, Stark R, Liess B (1995) Evaluation of the ELISA for the rapid screening and detection of classical swine fever virus antigens in the blood of pigs. *Revue Scientifique et Technique, OIE* 14, 761-765.
- Drew TW, Meulenber JJM, Sands JJ, **Paton DJ** (1995) Production, characterisation and reactivity of monoclonal antibodies to PRRS virus. *Journal of General Virology* 76, 1361-1369
- Edwards S, **Paton DJ** (1995) Antigenic differences among pestiviruses. Baker JC, Houe H, *editors*, *The Veterinary Clinics of North America* 11 (3), 563-577
- **Paton DJ** (1995) Pestivirus diversity: a review. *Journal of Comparative Pathology*, 112, 215-236.
- **Paton DJ** (1995) Porcine reproductive and respiratory syndrome (blue-eared pig disease). *Reviews in Medical Microbiology* 6, 119-125.

- **Paton DJ, Drew TW (1995)** Serological monitoring of PRRS transmission; a case study. *Veterinary Record* 136, 297-298.
- **Paton DJ, Carlsson U, Lowings JP, Sands JJ, Alenius S, Vilcek S. (1995).** Identification of herd-specific bovine viral diarrhoea virus isolates from infected cattle and sheep. *Veterinary Microbiology*, 43, 283-294.
- **Paton DJ, Lowings JP, Sands JJ, Smith JE, Ibata G, Edwards S (1995)** A proposed division of the pestivirus genus using monoclonal antibodies, supported by cross-neutralization assays and genetic sequencing. *Veterinary Research*, 26, 92-109.

1996

- Jones TO, **Paton DJ (1996)** Classical transmissible gastroenteritis returns. *Veterinary Record* 138, 166-167.
- Done SH, **Paton DJ, White MEC (1996)** Porcine reproductive and respiratory syndrome (PRRS): a review with emphasis on pathological, virological and diagnostic aspects. *British Veterinary Journal* 152, 153-174.
- Lowings P, Ibata G, Needham J, **Paton D (1996)** Classical swine fever diversity and evolution. *Journal of General Virology* 77, 1311-1321.
- Vilcek S, Stadejek T, Ballagi-Pordany A, Lowings P, **Paton D, Belak S (1996)** Genetic variability of classical swine fever virus. *Virus Research* 43, 137-147.

1997

- Jones, T., Pritchard, G., and **Paton, D. (1997)** Transmissible gastroenteritis of pigs. *Veterinary Record* 141: 427-428.
- **Paton, D.; Gunn, M.; Sands, J.; Yapp, F.; Drew, T.; Vilcek, S., and Edwards, S. (1997)** Establishment of serial persistent infections with bovine viral diarrhoea virus in cattle and sheep and changes in epitope expression related to host species. *Archives of Virology* 142: 929-938.
- **Paton, D.; Ibata, G.; Sands, J., and McGoldrick, A. (1997)** Detection of transmissible gastroenteritis virus by RT-PCR and differentiation from porcine respiratory coronavirus. *Journal of Virological Methods* 66: 303-309.
- **Paton, D. and Lowings, P. (1997)** Phylogenetic analysis of transmissible gastroenteritis virus isolates. *Archives of Virology* 142: 1703-1711.
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- **Paton DJ, Sharp G, Ibata G (1999)** Foetal cross-protection in sheep immunised by infection with a type 1 or a type 2 bovine viral diarrhoea virus, and challenged with the same or the heterologous virus in early pregnancy. *Veterinary Microbiology* 64: 185-196.

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- Vilcek S, **Paton** D, Lowings P, Bjorklund H, Nettleton P, Belak S (1999) Genetic analysis of pestiviruses at the 3' end of the genome. *Virus Genes* 18: 107-114.
- Vilcek S, **Paton** DJ, Minor P, Bentley M (1999) No confirmation of pestivirus RNA in human virus vaccines (letter). *Journal of Clinical Microbiology* 37, 1653
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- **Paton** DJ, McGoldrick A, Bensaude E, Belak S, Mittelholzer C, Koenen F, Vanderhallen H, Greiser-Wilke I, Scheibner H, Stadejek T, Hofmann M, Thuer B (2000) Classical swine fever virus: a second ring test to evaluate RT-PCR detection methods. *Veterinary Microbiology* 1968, 1-11.
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2001

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- Vilcek S, Strojny L, Durkovic B, Rossmannith R, **Paton** DJ (2001) Storage of BVDV clinical samples on filter paper and detection of viral RNA by a RT-PCR method. *J Virol Methods* 92, 19-22.

2002

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2003

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