



PERSONAL INFORMATION

- Dr Alastair John Douglas
- Current Employer : Veterinary Science Division, Agri-Food and Biosciences Institute, Stoney Road, Belfast BT4 3SD.
- Job title : Deputy Chief Executive (Grade 5)
- Job description : Director of Veterinary Sciences Division (VSD).
- Work telephone : 44-2890-525689
- email : alastair.douglas@afbini.gov.uk
- Nationality: British
- Date of Birth 28/11/63
- Place of Birth: Belfast, Northern Ireland
- Language Skills - English

SUMMARY OF QUALIFICATIONS

Bachelor of Science Biochemistry 2:1 Honours, Queens University Belfast 1985.

Doctor of Philosophy, Biochemistry, Queens University Belfast 1988.

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EMPLOYMENT HISTORY

1985

Department of Medicine, QUB summer research bursary (8 weeks)

Research Centre : Department of Anatomy, QUB

Research Project : The Effect of Ionising Radiation on the Gut.

1985 - 1988

MRC Postgraduate Studentship, QUB . Subject : Bioactive intestinal peptides

1988-1990

Postdoctoral Fellow, University of California at San Diego.

Source of funding : Ajinomoto Research Fellowship.

Research Centre : Department of Chemistry, UCSD

Research Project : The Design and Synthesis of Novel Dipeptide Sweeteners.

Nov 1990- Sept 2009

Veterinary Research Officer (Grade 7).

Veterinary Sciences Division, Agri-Food and Bioscience Institute (formally Department of Agriculture for Northern Ireland Science Service).

R&D portfolio and then moved to statutory animal health programmes in 2000. Established BSE surveillance lab at AFBI. Technical assessor for Irish National Accreditation Board (2007 to present). Representative on UK Spongiform Encephalopathy Group.

Sept 2009 – Jan 2015

Head of Immunodiagnostic Branch. Senior Veterinary Research Officer 1 (Grade 6).

Veterinary Sciences Division, Agri-Food and Bioscience Institute

Led on delivery of major epizootic statutory disease surveillance programmes. Led on surveillance testing resulting in eradication in Northern Ireland of Brucella Abortus, Bovine Spongiform Encephalopathy, Aujeszky's disease. Co-ordinator for epizootic disease emergency response. Representative for AFBI and DAERA on UK Epizootic Disease Emergency Response Committee.

Feb 2015 – June 2018

Head of Chemical and Immunodiagnostic Sciences Branch. Senior Veterinary Research Officer 1 (Grade 6).
Veterinary Sciences Division, Agri-Food and Bioscience Institute

Led on animal health statutory programmes and also food chemical contaminant statutory programmes. Emergency response co-ordinator for animal health and food safety issues.

June 2018 - Present

Director Veterinary Sciences Division, Agri-Food and Bioscience Institute

Divisional Director (over 270 staff). Overall lead on animal health and food safety for AFBI. Co-ordinator for emergency response for animal health and food safety. Led on establishing COVID testing laboratory to support Health Service Virus Reference Laboratory. Lead on laboratory quality management (ISO17025 and ISO9001). Lead on EU Exit for AFBI. Lead on estate infrastructure new build project. Lead on new AFBI LIMS. Part of AFBI Executive Management Team. AFBI Board experience and representation.

EXPERTISE

Peptide/protein chemistry

Development and use of immunodiagnostic test methods and reagents

Prion protein biology and diagnostics

Serological testing for veterinary pathogens

Molecular testing for veterinary pathogens

Genotype analysis

High containment laboratory design and operation

ISO17025, technical management of fixed and flexible scopes and management of Quality Management teams

Lead and technical assessor for ISO17025

LIMS development and deployment

Senior management role (270+ staff), board experience

ADDITIONAL INFORMATION

Technical assessor (ISO 17025) since 2007 with Irish National Accreditation Board (INAB). Specialising in TSE surveillance, serology, PCR, genetic analysis.

Trained Lead Assessor for ISO 17025 ((Lab QAcademy, July 2011).

REFEREED PAPERS

Douglas, A.J., Walker, B., Elmore, D.T. & Murphy, R.F. (1987) The synthesis of endothonated analogues of the C-terminal region of gastrin. *Biochem. Soc. Trans.* 15, 927-928.

Douglas, A.J., Mulholland, G., Walker, B., Ardill, J.A., Murphy, R.F. & Elmore D.T. (1987) Preparation and biological activity of N-tBoc-Trp-Leu- β -Ala : a C-terminal gastrin analogue. *Regul. Peptides* 18, 367.

Douglas, A.J., Haugen, S.E., Ronning, B., Walker, B., Sandvik, A.K., Waldum, H.L. and Murphy, R.F. (1987) Preparation and biological activity of a C-terminal gastrin sequence containing a ketomethylene amino bond replacement. *Regul. Peptides* 18, 368.

Walker, B., Douglas, A.J., Debass, H. & Murphy, R.F. (1987) Preparation and biological activity of two des-Phe analogues of the C-terminal region of gastrin. *Regul. Peptides* 18, 368.

Douglas, A.J., Mulholland, G., Walker, B., Guthrie, D.J.S., Elmore, D.T. & Murphy, R.F. (1988) The preparation of a C-terminal gastrin peptide containing a synthetic β -bend mimetic. *Biochem. Soc. Trans.* 16, 175-176.

Beattie, R.E., Douglas, A.J., Elmore, D.T., Murphy, R.F., Walker, B. & Williams, C.H. (1987) The behaviour of leucine aminopeptidase towards N-methyl-L-leucine chloromethylketone. *Biochem. Soc. Trans.*

Douglas, A.J., Yasui, A., Walker, B., Magee, D.F. & Murphy, R.F. (1988) Preparation and biological activity of indole-3-propionyl-L-leucyl-L-aspartyl-phenethylamide : a C-terminal gastrin analogue. *Biochem. Soc. Trans.* 16, 628-629.

Douglas, A.J., Johnston, C.F., Walker, B. & Murphy, R.F. (1988) The use of a biotinylatedgastrin antagonist to visualise gastrin binding sites within rat intestinal mucosa. *Regul. Peptides* 22, 401.

Douglas, A.J., Walker, B., Johnston, C.F. & Murphy, R.F. (1989) Visualisation of the gastrin receptor within rat mucosa using a biotinylated gastrin antagonist. *Int. J. Peptide Protein Res.* 35, 306-309.

Yasui, A., Douglas, A.J., Walker, B., Magee, D.F. & Murphy, R.F. (1989) Novel C-terminal gastrin antagonists : synthesis and biological activity. *Int. J. Peptide Protein Res.* 35, 301-305.

Haugen, S.E., Douglas, A.J., Ronning, B., Walker, B., Sandvik, A.K., Murphy, R.F., Elmore, D.T. & Waldum, H.L. (1989) Bioactivity studies on new gastrin analogues. *Scand. J. Gastroenterol.* 24, 577-580.

Feinstein, R.D., Polinsky, A., Douglas, A.J., Beijer, C.M.G.F., Chadha, R.K., Benedetti, E. & Goodman, M. (1991) Conformational analysis of the dipeptide sweetener Alitame and two stereoisomers by proton NMR, computer simulations and X-ray crystallography. *J. Amer. Chem. Soc.* 113, 3467-3473.

Todd, D., Mawhinney, K.A., McAlinden, V.A. and Douglas, A.J. (1993) Development of an enzyme-linked immunosorbent assay for the serological diagnosis of big liver and spleen disease. *Avian Diseases* 37, 811-816.

Noteborn, M.H.N., Todd, D., Verschueren, C.A.J., DeGauw, H.W.F.M., Curran, W.L., Veldkamp, S., Douglas, A.J., McNulty, M.S., Van Der Eb, A.J. and Koch, G. (1994) A single chicken anaemia virus protein induces apoptosis. *J. Virology* 68, 346-351.

Chakravarthy, U., Douglas, A.J., Bailie, J.R., McKibben, B and Archer, D.B. (1994) Immunoreactive endothelin distribution in ocular tissues. *Invest. Ophthalmology and Visual Science* 35, 2448-2454.

Pollock, J.M., Douglas, A.J., Mackie, D.P. and Neill, S.D. (1994) Identification of bovine T-cell epitopes for three Mycobacterium Bovis antigens: MPB70, 19kDa and MPB57. *Immunology* 82, 9-15.

Grimshaw, J., Kane, A., Trocha-Grimshaw, J., Douglas, A.J., Chakravarthy, U. and Archer, D. (1994) Quantitative analysis of hyaluronan in vitreous humor using capillary electrophoresis. *Electrophoresis* 15, 936-940.

McAlinden, V.A., Douglas A.J., McNeilly, F. et al (1995). The identification of an 18,000-molecular-weight antigen specific to big liver and spleen disease. *Avian Diseases* 39, 788-795

Pollock, J.M., Douglas, A.J., Mackie, D.P. and Neill, S.D. (1995) Peptide mapping of bovine T cell epitopes for the 38 kDa tuberculosis antigen. *Scand. J. Immunol.* 41 85-93

Bamford, A.I., Douglas, A.J., Friede, T., Stevanovic, S., Rammensee, H.G. and Adair, B.M. (1995) Peptide motif of naturally processed MHC class I presented peptides in the bovine. *Immunology Letters* 45,126-136.

Douglas, A.J., Phenix, K., Mawhinney, K.A., Todd, D., Mackie, D.P. and Curran, W.L. (1995) Identification and characterisation of a 24kDa protein expressed by chicken anaemia virus. *J. Gen. Virol.* 76, 1557-1562.

Rankin, R., Douglas, A.J., Foster, J.C. and Adair, B.M. (1995) T cell epitopes of bovine respiratory syncytial virus attachment glycoprotein. *Biochem. Soc. Trans.* 23, 483.

Somerville, L.E., Douglas, A.J., Irvine, A.E. (1996) Evaluation of G-CSF isoforms by capillary electrophoresis. *Experimental Haematology* 24, 740.

Allan, G.M., McNeilly, F., Walker, I.W., Young, J.A., Fee, S., Douglas, A.J. and Adair, B.M. (1998) Serological evidence of pneumovirus infection in pigs. *Veterinary Record* 142: 8-12.

Kavanagh, O.; Adair, B.; Earley, B.; et al. (2000) Calf enzootic pneumonia: A novel approach for respiratory tract vaccination against bovine respiratory syncytial virus. *Irish Journal of Agricultural and Food Research* 39, 486-487.

Jimenez-Clavero, MA; Douglas, A; Lavery, T; et al. (2000) Immune recognition of swine vesicular disease virus structural proteins: Novel antigenic regions that are not exposed in the capsid. *Virology* 270, 76-83.

Collen, T; Douglas, AJ; Paton, DJ; et al. (2000) Single amino acid differences are sufficient for CD4(+) T-cell recognition of a heterologous virus by cattle persistently infected with bovine viral diarrhoea virus. *Virology* 276, 70-82.

Jimenez-Clavero, MA; Escribano-Romero, E; Douglas, AJ; et al. (2001) The N-terminal region of the VP1 protein of swine vesicular disease virus contains a neutralization site that arises upon cell attachment and is involved in viral entry. *J Virology* 75, 1044-1047

Borrego, B; Garcia-Ranea, JA; Douglas, A; et al. (2002) Mapping of linear epitopes on the capsid proteins of swine vesicular disease virus using monoclonal antibodies. *J. Gen Virol.* 83, 1387-1395

Brun, A; Castilla, J; Ramirez, MA; et al. (2004) Proteinase K enhanced immunoreactivity of the prion protein-specific monoclonal antibody 2A11. *Neuroscience Research* 48, 75-83.

Stevenson, LS; Gilpin, DF; Douglas, A; et al. (2007) T lymphocyte epitope mapping of porcine circovirus type 2. *Viral Immunology* 20, 389-397.

Situ, C; Wylie, ARG; Douglas, A; et al. (2008) Reduction of severe bovine serum associated matrix effects on carboxymethylated dextran coated biosensor surfaces. *Talanta* 76, 832-836.

Nzoughet, KJ; Hamilton, JTG; Floyd, SD; et al. (2008) Azaspiracid: First evidence of protein binding in shellfish. *Toxicon* 51,1255-1263.

Samsonova, J V; Douglas, A J; Cooper, K M; et al. (2008) The identification of potential alternative biomarkers of nitrofurazone abuse in animal derived food products. *Food Chem Toxicol* 46, 1548-54

Preston, A; Fodey, T; Douglas, A; et al. (2009) Monoclonal antibody development for acrylamide-adducted human haemoglobin; A biomarker of dietary acrylamide exposure. *J Immunol Methods* 341,19-29.

Nzoughet, J.K, Hamilton, J.T.G., Botting, C.H., Douglas, A. Devine, L., Nelson, J., Elliott, C.T. (2009) Proteomic Identification of azaspiracid toxin biomarkers in blue mussels *Mytilus edulis*. *Molecular and Cellular Proteomics* 8, 1911-22.

Baxter, R., Craigmile, S.C., Haley, C., Douglas, A.J., Williams, J.L. and Glass, E.J. (2009) BoLA- DR Peptide binding pockets are fundamental for foot-and-mouth disease virus vaccine design in cattle. *Vaccine* 28, 28-37.

Kavanagh, O.V., Earley, B., Douglas, A.J., and Adair, B.M. Local and systemic immune responses to peptides representing BRSV epitopes contained in poly (DL-lactide-co-glycolide) microspheres, following intranasal administration. (In preparation).

**NON - REFEREED PAPERS, CONFERENCE PROCEEDINGS, PUBLISHED
ABSTRACTS, CONFERENCE PRESENTATIONS**

Douglas, A.J., Yasui, A., Magee, D.F., Murphy, R.F, Walker, B. & DeMeester, T.R. (1988) Inhibition of the gastric acid secretion by new gastrin derivatives in the conscious dog. *Gastroenterology* 94, A508

Douglas A.J., Walker, B., Johnston, C.F. & Murphy, R.F. (1989) Novel gastrin antagonists and receptor probe. *Peptides - Chemistry, structure and biology, Proceedings of the Eleventh American Peptide Symposium* pp 146-148.

Douglas, A.J. & Goodman, M. (1991) The molecular basis of taste : a stereoisomeric approach. *ACS symposium Series 450*, pp 128-141.

Lovas, S., Watson, S., Douglas, A.J., Walker, B., Lovas, E. and Murphy, R.F. (1994) Suppression of growth of a pancreatic cancer cell line by conformationally constrained analogues of gastrin. *23rd European Peptide Symposium*, Braga, Portugal, 1994.

Bamford, A.I., Douglas, A., Friede, T., Stevanovich, S., Rammensee, H.G. and Adair, B.M. (1994) Peptide motifs of a naturally processed MHC class I presented peptides in the bovine. *Irish Diagnostic Virology Group Meeting*. Warrenpoint. May 1994.

McAlinden, V., Douglas, A and Adair, B.M. (1994) Big liver and spleen disease of broiler chickens. *Irish Diagnostic Virology Group Meeting*. Warrenpoint. May 1994.

Todd, D.; Douglas, A. J.; Phenix, K. V.; et al. (1994) Characterisation of chicken anaemia virus. *International symposium on infectious bursal disease and chicken infectious anaemia, Rauischholzhausen, Germany, 21-24 June, 1994. Pages: 349-363 Published: 1994 Conference Title: International symposium on infectious bursal disease and chicken infectious anaemia, Rauischholzhausen, Germany, 21-24 June, 1994.*

Bamford, A.I., Douglas, A., Friede, T., Stevanovic, S., Rammensee, H.G., and Adair, B.M. Peptide motifs of naturally processed MHC class I presented peptides in the bovine. *European Federation of Immunological Societies. 12th European Immunology Meeting (Abstracts). Barcelona, June 1994. p443. (Abs. 36).*

Rankin, R., Douglas, A.J., Foster, J.C. and Adair, B.M (1995) T cell epitope mapping of bovine respiratory syncytial virus. *Irish Diagnostic Virology Group/Society for General Microbiology Joint Meeting*. St. Patrick's College, Maynooth, Ireland. May 1995.

Rankin, R., Douglas, A.J., Foster J.C. et al (1995). T-Cell epitopes of Bovine RSV attachment glycoprotein. *BIOCHEMICAL SOCIETY TRANSACTIONS* Volume: 23 Issue: 3 Pages: S483-S483 Article Number: Published: 1995 Conference Title: 654th Meeting of the Biochemical-Society Conference Date: APR 04-07, 1995 Conference Location: LEICESTER, ENGLAND

Rankin, R., Douglas, A.J., Foster, C.J. and Adair, B.M. T-cell epitope mapping of bovine respiratory syncytial virus nucleocapsid protein. *First European Meeting of Virology (Abstracts). Wurtzburg, Germany. Sept. 10-13, 1995.*

Rankin, R., Douglas A.J., Foster, C.J. and Adair, B.M. Epitope mapping of bovine respiratory syncytial virus G protein. First European Meeting of Virology (Abstracts). Wurtzburg, Germany. Sept. 10-13, 1995.

Rankin, R., Douglas, A.J., Foster, C.J. and Adair, B.M. Epitopes of bovine respiratory syncytial virus fusion protein. First European Meeting of Virology (Abstracts). Wurtzburg, Germany. Sept. 10-13, 1995.

Rankin, R., Douglas, A.J., Foster, C.J. and Adair, B.M. Alveolar macrophage cytokine response to bovine respiratory syncytial virus. AVTRW Dublin, December 1995 (Abstracts).

Rankin, R., Douglas, A.J., Foster, C.J. and Adair, B.M. (1995) The cell mediated response to bovine respiratory syncytial virus. Ulster Immunology Group Meeting, Belfast, December 1995.

Rankin, R., Douglas, A.J., Foster, J.C., Glass, E., Collins, R. and Adair, B.M. (1996). '*Cytokines induced in different cell types following exposure to bovine respiratory syncytial virus*'. Xth International Congress of Virology, Jerusalem, August 1996. (Poster/ Abstract)

Rankin, R., Douglas, A.J., Foster, J.C. and Adair, B.M. (1996). '*Cell mediated immune response to bovine respiratory syncytial virus*'. Irish Diagnostic Virology Group Meeting. Kilkeel. May 1996.

Somerville, L. E.; Douglas, A.; Irvine, A. E. (1996) Evaluation of G-CSF isoforms by capillary electrophoresis. Experimental Hematology (Charlottesville) Volume: 24 Issue: 9 Pages: 1158 Article Number: Published: 1996 Conference Title: 25th Annual Meeting of the International Society for Experimental Hematology Conference Date: August 23-27, 1996 Conference Location: New York, New York, USA

Somerville, L. E.; Douglas, A.; Irvine, A. E. (1997) Capillary electrophoresis of G-CSF. British Journal of Haematology Volume: 97 Issue: SUPPL. 1 Pages: 17 Article Number: Published: 1997 Conference Title: Annual Scientific Meeting of the British Society for Haematology Conference Date: April 14-17, 1997 Conference Location: Harrogate, England, UK

Moriarty, C.A., Douglas, A.J., Kwang, J. and Adair, B.M. (1997) Characterisation of monoclonal antibodies raised against bovine viral diarrhoea virus. Proc. of the Third ESVV Symposium on Pestivirus Infections. ID-DLO Lelystad, The Netherlands, 19-20 Sept. 1996

Moriarty, C.A., Douglas, A.J., Kwang, J. and Adair, B.M. (1997) Characterisation of monoclonal antibodies raised against bovine viral diarrhoea virus. Proc. of the Third ESVV Symposium on Pestivirus Infections. ID-DLO Lelystad, The Netherlands, 19-20 Sept. 1996. pp33-38.

McNeilly, F., Allan, G.M., Walker, I., Young, J.A., Fee, S., Douglas, A.J. and Adair, B.M. (1997) Serological evidence for pneumovirus infection in pigs. Fourth International Congress of Veterinary Virology, 'Virus survival and vaccination'. Edinburgh, 24-27 August, 1997.

Rankin, R., Adair, B.M. and Douglas, A.J. (1997) Production of immunosuppressive substances in cells infected with bovine respiratory syncytial virus. Fourth International Congress of Veterinary Virology, 'Virus survival and vaccination'. Edinburgh, 24-27 August, 1997.

Ventura, R.A., Adair, B.M., Foster, C.J., Phenix, K., and Douglas A.J. (2000) Immunogenicity and antigenicity of a replication defective Semliki Forest Virus containing the pestivirus NS3 gene. Second International Vaccinology and Diagnostics Conference, Oxford. July 2000.

Kavanagh, O., Adair, B.M., Douglas, A., Earley, B. Immunogenicity in mice of poly (lactide-co-glycolide) (PLGA) microspheres containing bovine respiratory syncytial virus F and G peptides. Second International Vaccinology and Diagnostics Conference, Oxford. July 2000.

Ventura, R., Douglas, A.J., Foster, J.C., and Adair, B.M. (2000) Investigation of the immunological properties of the BVDV protein NS3 expressed by a Semliki Forest virus vector. A.V.T.R.W. Annual Conference, Scarborough. April 2000. Research in Veterinary Science, 68: Supplement A. p35 (V110).

Ventura, R., Foster, J.C., Phenix, K.V., Douglas, A.J. and Adair, B.M. (2000) Evaluation of a replication-defective SFV vector containing the BVDV pestivirus NS3 gene as an immunogen in mice and sheep. Irish Diagnostic Virology Group. Belfast May 2000.

Borrego, B., Garcia-Ranea, J.A., Douglas, A., Jimenez-Clavero, M.A., Brocchi, E. (2000) Mapping of linear epitopes on the capsid proteins of the swine vesicular disease virus using monoclonal antibodies. Congress of the European Society of Veterinary Virology (Brescia, Aug 2000).

Ventura, R.A., Adair, B.M., Foster, C.J., Phenix, K., and Douglas A.J. (2000) Immunogenicity and antigenicity of a replication defective Semliki Forest Virus containing the pestivirus NS3 gene. Association of Veterinary Teachers and Research Workers (Irish Region) Winter Meeting. Dublin Dec. 2000.

Kavanagh, O., Adair, B.M., Douglas, A., Earley, B. (2001) Immunogenicity in mice of poly (lactide-co-glycolide) (PLGA) microspheres containing bovine respiratory syncytial virus F and G peptides. Association of Veterinary Teachers and Research Workers (Irish Region) Winter Meeting. Dublin Dec. 2000.

Duffy, C., Fodey, T., Elliott, C.T. and Douglas, A.J. (2001) Selection of single-chain Fv fragments against the anticoccidial drug halofuginone using a phage displayed antibody library. In Proc. Of 6th International Conference on Agri-Food Antibodies, October 2001, Prague, Czech Republic, p66.

Ventura, R.A., Adair, B.M., Foster, J.C., Phenix, K., and Douglas, A.J. (2002) Immunogenicity and antigenicity of a replication defective Semliki Forest virus containing the pestivirus NS3 gene. Irish Veterinary Journal 55: 337. (Abs of poster presented at AVTRW meeting, Dublin 2001).

Kavanagh, O., Adair, B.M., Douglas, A.J., and Earley, B. (2002) Immunogenicity in mice of poly (lactide-co-glycolide) (PLGA) microspheres containing bovine respiratory syncytial virus F and G peptides. Irish Veterinary Journal 55: 337. (Abs of poster presented at AVTRW meeting, Dublin 2001).

Stevenson, L.S., Gilpin, D.F., Douglas, A., Adair, B.M., McNeilly, F., McNair, I., Allan, G.M. (2003). An in vitro study of the immune response to PCV2 infection in pigs. Research in Veterinary Science 74. Suppl. A, p 39. Sixth International Congress of Veterinary Virology (ESVV) 24th-27th August 2003. St Malo, France.

Brocchi, E., Grazioli, S., Gamba, D., Borrè, A., Douglas, A., De Simone, F. (2004) Mapping of immunodominant regions of the non-structural protein 3B of FMDV, relevant for the recognition of the infectious status. European Society for Veterinary Virology.

Adair, B.M., Kavanagh, O., Shephard, M., Todd, D., Douglas, A., Foster, J.C., Earley, B. (2007) Studies with nanoparticle vaccines against respiratory viruses. Ulster Immunology Group Meeting (Vaccines). Belfast, Oct. 2007.

Nzougheh, KJ et al (2008). Azaspiracid: First evidence of protein binding in shellfish. 4th Safefood Biotxin Research Network Meeting, Belfast July 2008

GOVERNMENT COMMITTEE PRESENTATIONS, PAPERS AND REPORTS

Douglas, A.J. (2005) Genotype Analysis of Northern Ireland BSE BARBs, report to SEAC, 21st Jan 2005

Douglas, A.J (2005). Sequencing PRNP of NI BARB Cases – response to SEAC ad hoc Epidemiology Subgroup on UK BARB cases. SEAC 88th Meeting, London 30th June 2005.

Douglas, A.J. (2006) Update on TSE testing in Northern Ireland. SEAC 94th Meeting, Belfast, 21st Sept 2006.

POSTGRADUATE STUDENTS

Robert Rankin – PhD June 1997. QUB Faculty of Science and Agriculture. Cell Mediated Immune Response to Bovine Respiratory Syncytial Virus in Calves.

Alison Brady – MPhil Sept 1999. QUB Faculty of Science and Agriculture. Construction and Characterisation of a Viral Genome-Targeted Phage Display Library.

Roland Ventura – PhD Sept 2003. QUB Faculty of Science and Agriculture. Studies on Experimental Molecular Vaccines for Bovine Viral Diarrhoea Virus.

Diane Shiveral - PhD June 2005. QUB Faculty of Science and Agriculture. A Study of Recombinant Combinatorial Antibodies as Immunodetection Reagents for Transmissible Spongiform Encephalopathies.

Catherine Duffy – PhD Jan 2006. QUB Faculty of Science and Agriculture. A Study of Recombinant Antibodies as Immunodetection Reagents for Veterinary Drug Residues.

RESEARCH GRANT INCOME

Wellcome Vacation Scholarship

Title : Characterisation of the Epitope Specificity of a Neutralising Monoclonal Antibody to Chicken Anaemia Virus using Novel Random Phage Display Technology (student Mr R Ventura).

Value :£1,000

July-August 1995

BBSRC Agricultural Systems Directorate Grant

Title : A Study of Inhibitors of Bovine Viral Diarrhoea Virus Protease p80.

Value : £175,692

February 1996- January 1999

Wellcome Vacation Scholarship

Title : A study of peptide nucleic acid inhibitors of bovine viral diarrhoea virus (student Ms A Brady). Value : £1,000

July-August 1996

EU FAIR Grant

Title : Improved diagnosis of Swine Vesicular Disease

Value :£131,350 (€185,000) - total grant award €1,200,000

February 1997 – January 2000

Wellcome Vacation Scholarship

Title : Construction of a phage-displayed gene library from bovine viral diarrhoea virus (student Mr A O'Kane).

Value : £1,000

July-August 1997

EU FAIR Grant

Title : New approaches to the diagnosis and control of transmissible spongiform encephalopathies

Value :£251,340 (€354,000) - total grant award €1,600,000

April 1998 – September 2001

Wellcome Vacation Scholarship

Title : Selection of recombinant antibodies against important veterinary drugs from a combinatorial phage display library (student Ms C Duffy).

Value : £1,080

July-August 1998

Wellcome Vacation Scholarship

Title : Evaluation of Immuno-PCR as a high sensitivity reporter for antigen detection using antibody fragments generated from combinatorial phage antibody libraries (student Ms C McFarlane).

Value : £1,160

July-August 2000

Wellcome Vacation Scholarship

Title : Cloning and expression of affinity selected single chain Fv in a bacterial expression system (student Ms R Carson).

Value : £1,160

July-August 2001

DEFRA Grant (Joint Funders Initiative)

Title : Generation of Novel Recombinant scFv antibodies to Conformationally Unique Prion Protein Peptides

Value : £249,573

Jan 2003 - Dec 2005

Wellcome Vacation Scholarship

Title : A Study of Prion Protein Peptides and Antibodies (student Mrs C McCullough).

Value : £1,240

July-August 2003

EU FAIR Grant

Title : Improvement of foot and mouth disease control by ethically acceptable methods based on scientifically validated assays and new knowledge on FMD vaccines, including the impact of vaccination (SSPE-CT-2003-503603)

Value : €15,000

Sept 2003-Aug 2006

Wellcome Vacation Scholarship

Title : Combinatorial Library investigation of a monoclonal antibody to swine vesicular disease virus (student Ms N. Crawford).

Value : £1,280

July-August 2004

Wellcome Vacation Scholarship

Title : Investigation of INDELS within the 5' Untranslated Region of the PRP Gene (student Ms E Chambers).

Value : £1,320

July-August 2005

IRTU Networking Awards

1) Net 262 - Funding for visit to London - £134.24 (75% award)

2) Net 289 -Funding for visits to Brussels and Madrid - £1297.50 (75% award)

OTHER

Honorary Lecturer QUB 1996-2000

Lecturer for QUB Microbiology Degree course (Level 3 Infections Module) – 1997-2002

Member of SEAC Steering Committee

Member of VSD Ethical Review Committee

Member of UK Animal Disease Emergency Response Group (DERC)