

## Key Result Areas and Performance Measures

# 1. Research Findings and Competitiveness

## 1.1. List of Publications

Articles Published or accepted for publication in 2008 = 64

Books = 2

Editorials: 2

Letters: 1

Book chapters = 4

Papers submitted to peer review journals = 55

Percentage with an IF of >5 = 28%

\* Indicates by invitation

### Books

1. **Aitken, R.J.** et al (2009) Editors. *World Health Organization Laboratory Manual for the Examination of Human Semen and Semen-cervical mucus interaction*. Cambridge University Press, Cambridge. (in press).

*This book is universally acknowledged as the reference text in laboratory seminology, now in its 5<sup>th</sup> edition. This revised version is the most complete account to date on the creation of a conventional semen profile and includes invaluable reference limits for specific aspects of semen quality based on the analysis of over 1 900 recent fathers.*

2. Habenicht U & **Aitken R.J** (2009) Editors. Handbook of Experimental Pharmacology. *Fertility Control – Today and in the Future*. Springer-Verlag (in press).

### Journal Articles and Book Chapters

3. \***Aitken R.J.** (2008) **Invited Editorial** to accompany publication of the 5<sup>th</sup> edition of the WHO Laboratory manual. Whither must spermatozoa wander: the future of laboratory seminology. *Asian Journal of Andrology* (in press)
4. **Aitken, R.J.** (2008) **Invited Editorial**. Just how safe is assisted reproductive technology for treating male infertility? *Expert Reviews in Obstetrics and Gynaecology* **3**, 267-271. [No impact factor]
5. \***Aitken, R.J.** & **Baker, M.A.** (2008) The role of proteomics in understanding sperm cell biology. Proceedings of the Florence-Utah International Symposium on Genetics of Male Infertility. *International Journal of Andrology* **31**, 295-302. [Impact factor = 2.7]
6. **Aitken, R.J., Baker, M.A., Doncel, G.F., Matzuk, M.M., Mauck, C.K. & Harper, M.J.K.** (2008) As the world grows: contraception in the 21st century. *Journal of Clinical Investigation* **118**, 1330-1343. [Impact factor = 16.4]
7. **Aitken, R. J., Baker, M.A., De Iuliis, G.D. & Nixon B** (2009) New insights into sperm physiology and pathology. In: Handbook of Experimental Pharmacology. *Fertility Control – Today and in the Future*. Habenicht U & Aitken R.J Eds. Springer (in press)

8. **Aitken, R.J., DeIuliis, G.N. & McLachlan, R.I.** (2008) Biological and clinical significance of DNA damage in the male germ line. *International Journal of Andrology* **32**, 46-56. [Impact factor = 2.7]
9. \***Aitken, R.J.** Hughes, L.M., Griffith, R. & **Baker, M.A.** (2008) Bridging the gap between male and female fertility control. Contraception-on-demand. *Contraception* **78**, S28-S35. [Impact factor = 2.2]
10. Alexopoulos, N.I., Maddox-Hytel, P., **Holland, M.K.** & French, A.J. (2008) The prevalence of embryonic remnants following the recovery of post hatching bovine embryos produced in vitro or by somatic cell nuclear transfer. *Animal Reproduction Science* (in press) [Impact factor = 1.7]
11. Alexopoulos, N.I., Tveden-Nyborg, P.D., Cruz, N.T., Terciolioglu, T.R., Schauer, K., **Holland, M.K.**, French, A.J. & Maddox-Hytell, P. (2008) Developmental disparity between in vitro produced and somatic cell nuclear transfer bovine pre-implantation embryos (days 14 and 21): implications for embryonic loss. *Reproduction* **136**, 433-445 [Impact factor = 2.962]
12. **Baker, M.A., Hetherington, L., Reeves, G.H. & Aitken, R.J.** (2008) The mouse sperm proteome characterised via IPG Strip prefractionation and LC-MS/MS Identification. *Proteomics* **8**, 1720-1730. [Impact factor = 5.8]
13. **Baker, M.A., Hetherington, L., Reeves, G.H., Muller, J. & Aitken, R.J.** (2008) The rat sperm proteome characterised via IPG strip pre-fractionation and LC-MS/MS identification. *Proteomics* **8**, 2312-2321. [Impact factor = 5.8]
14. **Barakat, B., O'Connor, A., Gold, E., de Kretser, D.M. & Loveland, K.L.** (2008) Inhibin, activin, follistatin and follicle stimulating hormone serum levels and testicular production are highly modulated during the first spermatogenic wave in mice. *Reproduction*. **136**, 345-359. [Impact factor = 3.0]
15. Bennetts, L.E., **De Iuliis, G.N., Nixon, B., Kime, M., Zelski, K.,** McVicar, S.M., Lewis, S.E., & **Aitken, R.J.** (2008) Analysis of the impact of estrogenic compounds on DNA integrity in the male germ line. *Mutation Research* **641**, 1-11. [Impact Factor = 4.1]
16. Beverdam, A., Svingen, T., Bagheri-Fam, S., Bernard, P., McClive, P., Robson, M., Banan Khojasteh, M., Salehi Banan, M., **Sinclair, A.H., Harley, V.R. & Koopman, P.A.** (2008). Sox9-dependent expression of *Gstm6* in Sertoli cells during testis development in mice. *Reproduction*, Epub ahead of print. PMID: 19098141 [Impact factor = 3.0]
17. Borg, N., & **Holland, M.K.** (2008) The effect of glycosaminoglycans on rate gametes in vitro and the associated signal pathway. *Reproduction* **135**, 311-319 [Impact Factor = 3.0]
18. Bowles, E.J., Tecirlioglu, R.T., French, A.J. **Holland, M.K.,** St John, J.C. (2008) Mitochondrial DNA Transmission and Transcription after Somatic Cell Fusion to One or More Cytoplasts. *Stem Cell* **26**:775-82. [Impact Factor = 7.5]
19. Combes, A.N., Wilhelm, D., Davidson, T., Dejana, E., Harley, V., **Sinclair, A. & Koopman, P.** (2009) Endothelial cell migration directs testis cord formation. *Developmental Biology* **326**, 112-120. [Impact Factor = 5.1]
20. Cotton, L.M., **O'Bryan, M.K., & Hinton, B.T.** (2008) Cellular signaling by fibroblast growth factors (FGFs) and their receptors (FGFRs) in male reproduction. *Endocrine Reviews*, **29**, 193-216. [Impact Factor = 24.2]
21. Cruz, N.T., Wilson, D.J., Cooney, M.A., Tecirlioglu, R.T., Lagutina, I., Galli, C., **Holland, M.K., & French, A.J.** (2008) Putative Imprinted Gene Expression in

- Uniparental Bovine Embryo Models. *Reproduction Fertility and Development* **20**: 589-597 [Impact Factor = 2.805]
22. Daggag, H., Svingen, T., Western, P.S., van den Bergen, J.A., McClive, P.J., Harley, V.R., **Koopman, P.A.** & **Sinclair, A.H.** (2008). The *Rhox* homeobox gene family shows sexually dimorphic and dynamic expression during mouse embryonic gonad development. *Biology of Reproduction* **79**: 468-474. [Impact factor: 3.7]
  23. Dias, V., Meachem, S., Rajpert-deMeyts, E., McLachlan, R., Manuelpillai, U., & **Loveland, K.L.** (2008) Activin receptor subunits in normal and dysfunctional adult human testis. *Human Reproduction* **23**, 412-420. [Impact factor =3.6]
  24. Eid, J.P., Martinez Arias, A., Robertson, H. **Hime, G.R.** and Dziadek, M. (2008) The *Drosophila* STIM1 orthologue, dSTIM, has roles in cell fate specification and tissue patterning. *BMC Developmental Biology* **8**, 104-121 [Impact Factor = 3.3]
  25. Fleming, S.D., Ilad, R.S., Griffin, A-M.G., Wu, Y., Ong, K.J., Smith, H.C. & **Aitken, R.J.** (2008) Prospective controlled trial of a novel membrane-based electrophoretic method of sperm preparation for assisted reproduction. *Human Reproduction* **23**, 2646-2651. [Impact factor = 3.6]
  26. Gibbs, G.M., Roelants K., & **O'Bryan, M.K.** (2008) The CAP superfamily cysteine-rich secretory proteins, antigen 5 and pathogenesis-related 1 proteins – roles in reproduction, cancer and immune defense. *Endocrine Reviews* **29**, 865-897. [Impact Factor = 24.2]
  27. Gold, E., Jetly, N., **O'Bryan, M.K.**, Meachem, S., Srinivasan, D., Behuria, S., Sanchez-Partida, L.G., Woodruff, T., Hedwards, S., Wang, H., McDougall H., Casey V., Niranjan B., Patella S., and Risbridger G. (2009) Activin C antagonizes activin A in vitro and overexpression leads to pathologies in vivo. *American Journal of Pathology* **174**, 184-195. [Impact Factor = 6.2]
  28. Gustin, S.E., **Western, P.S.**, McClive, P.J., Harley, V.R., **Koopman, P.A.** & **Sinclair, A.H.** (2008). Testis development, fertility and survival in ethanolamine kinase 2-deficient mice. *Endocrinology* **149(12)**: 6176-6186. [Impact Factor = 5.0]
  29. Hiramatsu, R., Matoba, S., Kanai-Azuma, M., Tsunekawa, N., Katoh-Fukui, Y., Kurohmaru, M., Morohashi, K., Wilhelm, D., **Koopman, P.** & Kanai, Y. (2009) A critical time window of Sry action in gonadal sex determination in mice. *Development* **136**, 129-138. [Impact Factor = 7.4]
  30. Hughes, L.M., Griffith, R., Carey, A., Donne S., Beagley, K.W. & **Aitken, R.J.** (2008) Targeting the axoneme; towards a dual-purpose topical spermicide-microbicide. *Molecular Pharmacology* (in press) [Impact factor = 4.5]
  31. **Itman, C.** & **Loveland, K.L.** (2008) Insights into BMP signalling in spermatogenesis from regulated expression of Smads in rodent spermatogenesis. *Developmental Dynamics* **237**, 97-111. [Impact factor = 3.3]
  32. **Jamsai, D.**, Bianco, D.M., Smith, S.J., **Merriner, D.J.**, Niranjan, B., Gibbs, G.M., & **O'Bryan, M.K.** (2008) Characterization of gametogenetin 1 (GGN1) and its potential role in male fertility through the interaction with the ion channel regulator, cysteine-rich secretory protein 2 (CRISP2) in the sperm tail. *Reproduction* **135**, 751-759. [Impact factor = 3.0]
  33. **Jamsai, D.**, Reilly, A., Smith, S., Gibbs, G.M., Baker, H.W.G., McLachlan, R.I., de Kretser, D.M., & **O'Bryan, M.K.** (2008) Polymorphisms in the human cysteine-rich secretory protein 2 (*CRISP2*) gene in Australian men. *Human Reproduction* **23**, 2151-2159. [Impact factor = 3.6]

34. **Kennedy, C.L., Koopman, P.A.,** Mishina, Y., & **O'Bryan, M.K.** (2008) Sox8 and Sertoli cell function. *Annals of the New York Academy of Science* **1120**, 104-113.[Impact factor = 2.1]
35. Koppers, A.J., De Iuliis, G.N., Finney J., **McLaughlin, E.A. & Aitken, R.J.** (2008) Mitochondria as a source of reactive oxygen species and oxidative stress in mammalian spermatozoa. *Journal of Clinical Endocrinology and Metabolism* **93**, 3199-3207. [Impact factor = 6.0]
36. Krausz C., Giachini C., Xue Y., **O'Bryan M.K.**, Grommoll J., Rejper-de Mayts E., Oliva R., Akinin-Seifer I., Erdei E., Jorgensen N., Simoni M., Ballesca J.L., Levy R., Balercia G., Piomboni, P., Nieschlag, E., McLachlan, R. & Tyler-Smith, C.(2009) Phenotypic variation within European carriers of the Y-chromosomal gr/gr deletion is independent of Y-chromosomal background. *Journal of Medical Genetics* **46**, 21-31. [Impact factor = 5.0]
37. **\*Loveland, K.L.** Rajper-deMeyts, E. & Veeramachaneni, D.N.R. (2008) Testicular Cancer. *Comprehensive Toxicology*, 2<sup>nd</sup> Edition Ed. Professor Charlene A. McQueen. Accepted 23 Sept 08.
38. Maatouk, D.M., **Loveland, K.L.**, McManus, M.T., Moore, K. & Harfe, B.D. (2008) Dicer is required for differentiation of the murine male germline. *Biology of Reproduction*. **79**,696-703. [Impact factor = 3.7]
39. McLachlan, R.I., **Aitken, R.J.**, Cram, D., Krausz, C. & **O'Bryan, M.K.** (2008) Y chromosome mutations in assisted reproductive technology. **Letter. Fertility and Sterility** **90**, 463-4.
40. **\*McLaughlin, E.A.**, & McIver. S. (2009) Awakening the oocyte: controlling primordial follicle development. *Reproduction* **137(1)** 1-11. [Impact factor = 3.0]
41. **\*McLaughlin, E.A.**, & Pacey. A.A. (2008) Cryopreservation & Storage of Sperm. In: *Textbook of Assisted Reproductive Technologies*, 3rd edition Eds. Gardener DK, Weissman A, Howles CM, Shoham Z, Informa Healthcare Press, London UK pp567-579.
42. **Mitchell, L.A., Nixon, B., Baker M.A. & Aitken, R.J.** (2008) Investigation of the role of SRC in capacitation associated tyrosine phosphorylation of human spermatozoa. *Molecular Human Reproduction* **14**, 235-243. [Impact factor = 3.2]
43. **\*Nixon, B. & Aitken, R.J.** (2008) Proteomics of human spermatozoa. In: *Immune infertility*. W. Krause, & R.K. Naz, Editors, Springer Verlag, Berlin. (in press)
44. **\*Nixon, B. & Aitken, R.J.** (2008) The significance of detergent resistant membranes in spermatozoa. *Journal of Reproductive Immunology* (in press). [Impact factor = 3.3]
45. **Nixon B., Bielanowicz A., McLaughlin E.A.,** Tanphaichitr N., Ensslin M.A. & **Aitken R.J.** (2009) Composition and significance of lipid rafts in mouse spermatozoa. *Journal of Cell Physiology*, **218**, 122-134 [Impact Factor = 4.7]
46. **Nixon, B., Jones, R.C. & Holland, M.K.** (2008) Molecular and Functional Characterization of the Rabbit Epididymal Secretory Protein 52, REP52. *Biology of Reproduction* **78**, 910-920 [Impact factor = 3.7]
47. **O'Bryan, M.K.,** Takada, S., Kennedy, C.L., Scott, G., Harada, S., Ray, M.K., Dai, Q., Wilhelm, D., **de Kretser, D.M.,** Eddy, E.M., **Koopman, P.A. & Mishina, Y.** (2008) Sox8 is a critical regulator of adult Sertoli cell function and male fertility. *Developmental Biology* **316**, 359-370. [Impact factor = 5.1]
48. Polanco, J.C., Wilhelm, D., Mizusaki, H., Jackson, A., Browne, C., Davidson, T., Harley, V., **Sinclair, A. & Koopman, P.A.** (2009) Functional analysis of SRY-KRAB

- interaction in mouse sex determination. *Biology of the Cell* **101**, 55-6. [Impact factor = 3.5]
49. Reddy, T., Gibbs, G.M., **Merriner, D.J.**, Kerr, J.B. & **O'Bryan, M.K.** (2008) Cysteine-rich secretory proteins are not exclusively expressed in the male reproductive tract. *Developmental Dynamics* **237**, 3313-3323. [Impact factor = 3.3]
  50. Riding, G.A., Hill, J.R., Jones, A., Lehnert, S.A. & **Holland, M.K.** (2008) Differential proteomic analysis of bovine conceptus fluid proteins in pregnancies produced by assisted reproductive technologies. *Proteomics* **8**:2967-2982. [Impact factor = 5.8]
  51. Riding, G.A., Jones, A., **Holland, M.K.**, Hill, J.R. & Lehnert, S.A. (2008) Proteomic analysis of bovine conceptus fluids during early pregnancy. *Proteomics* **8**, 160-177 [Impact factor = 5.8]
  52. Ruddock-D'Cruz, N.T., Prashadkumar, S., Wilson, K.J., Heffernan, C., Cooney, M.A., French, A.J., Jans, D.A., Verma, P.J. & **Holland, M.K.** (2008) Dynamic changes in localization of chromobox (CBX) family members during the maternal to embryonic transition. *Molecular Reproduction and Development* **75**, 477-88. [Impact factor = 2.5]
  53. Ruddock-D'Cruz, N.T., Xue, J., Wilson, K.J., Heffernan, C., Prashadkumar, S., Cooney, M.A., Sanchez-Partida, L.G., French, A.J. & **Holland, M.K.** (2008) Dynamic changes in the localization of five members of the methyl binding domain (MBD) gene family during murine and bovine preimplantation embryo development. *Molecular Reproduction and Development* **75**, 48-59. [Impact factor = 2.5]
  54. Ruwanpura, S.M., McLachlan, R.I., Stanton, P.G., **Loveland, K.L.** & Meachem, S.J. (2008) Pathways involved in testicular germ cell apoptosis in immature rats after FSH suppression. *Journal of Endocrinology* **197**, 35-43. [Impact factor = 3.0]
  55. Sarraj, M.A, Umbers, A., Chua, H.K., Findlay, J.K, **Loveland, K.L.** & Stenvers, K.L. (2008) Differential expression of *Tgfb3* (betaglycan) in mouse ovary and testis during gonadogenesis. *Growth Factors* **25**,334-345. [Impact factor = 3.9]
  56. **Siddall, N.A.**, Lin, J.I., **Hime, G.R.** & Quinn, L.M. (2009) Myc – what we have learned from flies. *Current Drug Targets* [Impact factor = 4.0]
  57. Smith, C.A., Roeszler, K.N., **Bowles, J.**, **Koopman, P.A.** & **Sinclair, A.H.** (2008) Onset of meiosis in the chicken embryo; evidence of a role for retinoic acid. *BMC Developmental Biology* **8**, 85-104. [Impact Factor = 3.3]
  58. Smith, C.A., Shoemaker, C.M., Roeszler, K.N., Queen, J., Crews, D.P. & **Sinclair, A.H.** (2008) Cloning and expression of R-Spondin1 in different vertebrates suggests a conserved role in ovarian development. *BMC Developmental Biology* **8**:72-88. [Impact Factor = 3.3]
  59. **Szczepny, A.**, **Hogarth, C.** & **Loveland, K.L.** (2009) Hedgehog signalling in the testis examined using a novel culture method. *Biology of Reproduction* **80**, 258-63. [Impact factor = 3.7]
  60. Tveden-Nyborg, P.Y., Alexopoulos, N.I., Cooney, M.A., French, A.J., Tercirlioglu, R.T., **Holland, M.K.**, Thompson, P.D. & D'Cruz, N.T. (2008) Analysis of the expression of putatively imprinted genes in bovine peri-implantation embryos. *Theriogenology* **70**, 1119-1128. [Impact factor = 1.9]
  61. **Walsh, A.**, **Whelan, D.**, **Bielanowicz, A.**, **Aitken R.J.**, **O'Bryan, M.K.** & **Nixon, B.** (2008) Identification of the molecular chaperone, heat shock protein 1 (Chaperonin 10), in the reproductive tract and in capacitating spermatozoa in the male mouse. *Biology of Reproduction*, **78**, 983-993. [Impact factor = 3.7]

62. **Western, P.S., Miles, D., Van Den Bergen, J.A.,** Burton, M. & **Sinclair, A.H.** (2008) Dynamic regulation of mitotic arrest in fetal male germ cells. *Stem Cells* **26**, 339-347. [Impact factor 7.8]
63. **Zamudio, N.M.,** Chong, S. & **O'Bryan, M.K.** (2008) Epigenetic regulation and male fertility. *Reproduction* **136**, 131-146 [Impact factor = 3.0]
64. Zhang, Z., Hill, J., **Holland, M.K.,** Kurihara, Y. & **Loveland, K.L.** (2008) Bovine Sertoli cells colonize and form tubules in murine hosts following transplantation and grafting procedures. *Journal of Andrology* **29**, 418-430 (A figure from this paper was used as the cover photo for this volume). [Impact factor = 2.327]

### **Publications by CIs not directly related to Centre activity**

1. Bradford ST, Hiramatsu R, Maddugoda MP, Bernard P, Chaboissier MC, Sinclair A, Schedl A, Harley V, Kanai Y, Koopman P, Wilhelm D. (2009) The Cerebellin 4 precursor gene is a direct target of SRY and SOX9 in Mice. *Biology of Reproduction* . (in press)
2. Caly, L., Nishimura, S., **Jans, D.A.** & Piller, S.C. (2008) "Cleavage at novel sites within virions and transfected cells of GFP-HIV-1 Vpr fusions: concerns for intracellular trafficking studies" *Journal of Fluorescence*, in the press (#JOFL597R1)
3. Caly, L., Saksena, N.K., Piller, S.C. & **Jans, D.A.** (2008) "Impaired nuclear import and viral incorporation of Vpr derived from a HIV long-term non-progressor" *Retrovirology* **5**, 67 (<http://www.retrovirology.com/content/5/1/67>)
4. Daly, J., Galloway, D., Bravington, W., **Holland, M.K.** & Ingram, B. (2008) Cryopreservation of sperm from Murray cod, *Maccullochella peelii peelii*. *Aquaculture* **285** (2008) 117-122 [Impact factor = 1.735]
5. Dowling, D., Nasr-Esfahani, S., Tan, C.H., O'Brien, K., Howard, J.L., **Jans, D.A.,** Purcell, D.F.J., Stoltzfus, C.M. & Souza, S. (2008) "HIV-1 infection induces changes in expression of cellular splicing factors that regulate alternative viral splicing and virus production in macrophages" *Retrovirology* **5**, 18  
(<http://www.retrovirology.com/content/5/1/18>)
7. Elliott, D.A., Kim, W.S., **Jans, D.A.** & Garner, B. (2008) "Macrophage apolipoprotein-E knockdown modulates caspase-3 activation without altering sensitivity to apoptosis" *Biochimica et Biophysica Acta* **1780**, 145-153
8. François, M., Caprini, A., Hosking, B., Orsenigo, F., Wilhelm, D., Browne, C., Paavonen, K., Karnezis, T., Shayan, R., Downes, M., Davidson, T., Tutt, D., Cheah, K.S., Stacker, S.A., Muscat, G.E, Achen, M.G., Dejana, E. & **Koopman, P** (2008) Sox18 induces development of the lymphatic vasculature in mice *Nature*. 456, 643-647.

9. Fulcher, A.J., Ahmed, C.M.I., Noon-Song, E.N., Kwan, R.Y.Q., Subramaniam, P.S., Johnson, H.M. & **Jans, D.A.** (2008) "Interferon g is recognised by importin ab: enhanced nuclear localising and transactivation activities of an interferon g mimetic" *FEBS Letters* **582**, 1569-1574
10. Ho, A., **Jans, D.A.**, Soegiyono, L., Dias, M., Coghill, S., Wong, W., Bardin, P.G. & Ghildyal, R. (2009) The respiratory syncytial virus matrix protein possesses a CRM1-mediated nuclear export mechanism *Traffic* (TRA-05-0091R2), under revision
11. Kuusisto, H., Wagstaff, K.M, Alvisi, G. & **Jans, D.A.** (2008) The C-terminus of apoptin represents a unique tumor cell-enhanced nuclear targeting module" *International Journal of Cancer* **123**, 2965-2569.
12. Li, D-S., **Jans, D.A.**, Bardin, P.G., Meanger, J., Mills, J. & Ghildyal, R. (2008) Association of respiratory syncytial virus M protein with viral nucleocapsids is mediated by the M2-1 protein. *Journal of Virology* **82**, 8863-8870.
13. Maddika, S., Wiechec. E., Ande, S.R., Poon, I.K., Fischer, U., Wesselborg, S., **Jans, D.A.**, Schulze-Osthoff, K. & Los, M. (2008) Interaction with PI3 kinase contributes to the cytotoxic activity of Apoptin. *Oncogene* **27**, 3060-3065
14. Rawlinson, S.M., Pryor, M.J., Wright, P.J., & **Jans, D.A.** (2009) CRM1-mediated nuclear export of dengue virus NS5 RNA polymerase regulates the kinetics of virus production *Journal of Biological Chemistry* under revision
15. Ross DG, Bowles J, Koopman P, Lehnert S (2008) New insights into SRY regulation through identification of 5' conserved sequences. *BMC Molecular Biology* 9:85
16. Sinigalia, E., Alvisi, G., Mercorelli, B., Coen, D.M., Pari, G.S., Jans, D.A., Ripalti, A., Palù, G. & Loregian, A. (2008) Role of homodimerization of human cytomegalovirus DNA polymerase accessory protein UL44 in origin-dependent DNA replication in cells. *Journal of Virology* **82**, 12574-12579.
17. Wagstaff, K. M., Fan, J.Y., de Jesus, M.A., Tremethick, D.J. & **Jans, D.A.** (2008) Efficient gene delivery using reconstituted chromatin enhanced for nuclear targeting. *FASEB Journal* **22**, 2232-2242.
18. Yu, D.T., Ajami, K., Park, J., Gall, M., Soon, L.C, Evans, K.A., **McLaughlin, E.A.**, McCaughan, G.W. & Gorrell, M.D. (2009) The in vivo expression of Dipeptidyl Peptidase IV and related enzymes. *Journal of Histochemistry and Cytochemistry* (in press accepted 20th Jan 2009) [Impact factor = 2.6]