

Prof. ANGUS IAIN LAMOND

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EMPLOYMENT RECORD

2008-2012	Director of the WT Centre for Gene Regulation and Expression
1995-present	Professor of Biochemistry, University of Dundee, Scotland
1995	Appointed Senior Scientist, EMBL, Heidelberg, Germany
1987-95	Group Leader, EMBL, Heidelberg, Germany
1985-87	Postdoctoral Fellow, Center for Cancer Research, M.I.T. USA
1984-87	Junior Research Fellow, Christ's College, Cambridge, UK

EDUCATION RECORD

1984	Ph.D. (Molecular Biology), University of Cambridge
1981	B.Sc. 1st Class Hons (Molecular Biology), University of Glasgow

Research Funding: My research has been supported by competitive funding awards from WT, MRC, BBSRC, EU totalling over £21,000,000 in the last ten years. I have also been a member of multiple national and international collaborative projects including being lead applicant and co-ordinator of networks funded by EU, HFSP and Wellcome Trust.

Professional Service: I have served on the Scientific Advisory Board for a number of European research institutes in Germany, France, Denmark and the UK. I have served on the organising committees and/or executive councils of the British Society of Cell Biology, British Biochemical Society and international RNA Society. I served as a panel member and Chairman of the Wellcome Trust Molecules, Genes and Cells Funding Committee and the Investigator Award Expert Review Group, Molecular Basis of Cell Function. I served on the Royal Society Sectional Committee 6 including 2 years as Chairman.

Prizes and Awards:

- 1992 Colworth Medal (British Biochemical Society)
- 1993 Elected to the European Molecular Biology Organization (EMBO)
- 1996 Elected a Fellow of the Royal Society of Edinburgh (FRSE)
- 2006 Medal of Honour, First Medical Faculty, Charles University, Prague
- 2010 Elected a Fellow of the Royal Society (FRS)
- 2010 Honorary Degree of *doctor scientiarum honoris causa (dr.scient.h.c.)* at the University of Southern Denmark
- 2011 Novartis Medal (British Biochemical Society)
- 2012 MCP Prize Lecture in Proteomics
- 2014 Elected a Fellow of The Academy of Medical Sciences (FMedSci)

Recent Publications (last 3 years):

- "A role for the Cajal-body-associated SUMO isopeptidase USPL1 in snRNA transcription mediated by RNA polymerase II"; Hutten, S., Chachami, G., Winter U., Melchior, F. and Lamond, A.I. *Journal of Cell Science* (2014) doi: 10.1242/jcs.141788.
- "A proteomic chronology of gene expression through the cell cycle in human myeloid leukemia cells"; Ly, T., Ahmad, Y., Shlien, A., Soroka, D., Mills, A., Emanule, M.J., Stratton, M.R. and Lamond, A.I. *eLife* (2014) doi: 10.7554/eLife.01630.
- "FMDV replicons encoding green fluorescent protein are replication competent"; Tulloch, F., Pathania, U., Luke, G.A., Nicholson, J., Stonehouse, N.J., Rowlands, D.J., Jackson, T., Tuthill, T., Haas, J., Lamond, A.I. and Ryan, M. (2014) *Journal of Virological Methods* 209, 35-40.
- "Proteomic and 3D structure analyses highlight the C/D box snoRNP assembly mechanism and its control"; Bizarro, J., Charron, C., Boulon, S., Westman, B., Pradet-Balade, B., Vandermoere, F., Chagot, M., Hallais, M., Ahmad, Y., Leonhardt, H., Lamond, A., Manival, X., Branlant, C., Charpentier, B., Verheggen, C. and Bertrand, E. (2014) *J. Cell Biol.* MS 201404160.
- "Identification of Small Molecule Inhibitors of Pre-mRNA Splicing" Pawellek, A., McElroy, S., Samatov, T., Mitchell, L., Woodland, A., Ryder, U. Gray, D., Luhrmann, R. and Lamond A.I. (2014) *Journal of Biological Chemistry*; 10.1074/jbc.M114.590976.
- "A Perspective on Proteomics in Cell Biology" Ahmad, Y. and Lamond, A.I. (2014) *Trends in Cell Biology* pii: S0962-8924(13)00191-8.
- "Proteomic analysis of the response to cell cycle arrests in human myeloid leukemia cells" Ly, T., Endo, A. and Lamond, A.I. (2015) *Elife* doi: 10.7554/eLife.04534.
- "The NEDD8 inhibitor MLN4924 increases the size of the nucleolus and activates p53 through the ribosomal-Mdm2 pathway". Bailly, A., Perrin, A., Bou Malhab, L.J., Pion, E., Larance, M., Nagala, M., Smith, P., O'Donohue, M-F., Gleizes, P-E., Zomerdijk, J., Lamond, A.I. and Xirodimas, D.P. *Oncogene* (2015) doi:10.1038/onc.2015.104.
- "Multidimensional proteomics for cell biology". Larance, M. and Lamond, A.I. *Nature Review Molecular Cell Biology* (2015) doi 10.1038/nrm3970.
- "Global proteomics analysis of the response to starvation in *C.elegans*". Larance, M., Pourkarimi, E., Wang, B., Murillo, A.B., Kent, R., Lamond, A.I. and Gartner, A. *Mol Cell Proteomics* (2015) pii: mcp.M114.044289.
- "Targeted knock-down of miR21 primary transcripts using snoMEN vectors induces apoptosis in human cancer cell lines" Ono, M., Ono, K., Avolio, F., Afzal, V., Bensaddek, D. and Lamond, A.I. *PLOS ONE* (2015) e0138668. doi:10.1371/journal.pone.0138668.
- "Evaluating the use of HILIC in large-scale, multi dimensional proteomics: Horses for courses?" Bensaddek, D., Nicolas, A. and Lamond, A.I. *International Journal of Mass Spectrometry* (2015) doi. 10.1016/j.ijms.2015.07.029.
- "Micro-proteomics with iterative data analysis: proteome analysis in *C.elegans* at the single worm level" Bensaddek, D., Narayan, V., Nicolas, A., Brenes Murillo, A., Gartner, A., Kenyon, C. and Lamond, A.I. *Proteomics* (2015) doi: 10.1002/pmic.201500264.
- "The cytotoxic T cell proteome and its shaping by mammalian Target of Rapamycin" Hukelmann, J.L., Anderson, K.E., Sinclair, L.V., Katarzyna, M.G., Brenes Murillo, A., Hawkins, P.T., Stephens, L.R., Lamond, A.I. and Cantrell, D.A. *Nature Immunology* (2016) doi: 10.1038/ni.3314.
- "CDK-dependent phosphorylation of PHD1 on serine 130 alters its substrate preference in cells" Ortmann, B., Bensaddek, D., Carvalhal, S., Moser, S.C., Mudie, S., Griffis, E.R., Swedlow, J.R., Lamond, A.I. and Rocha, S. *Journal of Cell Science* (2016) doi: 10.1242/jcs.179911.
- "The histone chaperone Vps75 forms multiple oligomeric assemblies capable of mediating exchange between histone H3-H4 tetramers and Asf1-H3-H4 complexes"; Hammond, C., Sundaramoorthy, R., Larance, M., Lamond, A., Stevens, M.A., El-Mkami, H., Norman, D.G. and Owen-Hughes, T. *Nucleic Acids Research* (2016) doi: 10.1093/nar/gkw209.
- "Global Membrane Protein Interactome Analysis using In vivo Crosslinking and MS-based Protein Correlation Profiling" Larance, M., Kirkwood, K.J., Tinti, M., Brenes Murillo, A., Ferguson, M.A.J. and Lamond, A.I. *Molecular and Cellular Proteomics* (2016) doi: 10.1074/mcp.O115.055467.
- "Enhanced snoMEN vectors facilitate establishment of GFP-HIF-1a protein replacement human cell lines"; Ono, M., Yamada, K., Bensaddek, D., Afzal, V., Biddlestone, J., Ortmann, B., Mudie, S., Boivin, V., Scott, M.S., Rocha, S. and Lamond A.I. *PLOS ONE* (2016) doi: 10.1371/journal.pone.0154759
- "Deep proteome analysis identifies new age-related processes in *C.elegans*"; Narayan, V., Ly, T., Pourkarimi, E., Murillo, A.B., Gartner, A., Lamond, A.I. and Kenyon, C. *Cell Systems* (2016) 3(2):144-59. doi: 10.1016/j.cels.2016.06.011.

- “The Helicase Aquarius/EMB-4 is Required to Overcome Intronic Barriers to Allow Nuclear RNAi Pathways to Heritably Silence Transcription”; Akay, A., Di Domenico, T., Suen, K.M., Nabih, A., Parada, G.E., Larance, M., Medhi, R., Berkyurek, A.C., Zhang, X., Wedeles, C.J., Rudolph, K.L.M., Engelhardt, J., Hemberg, M., Ma, P., Lamond, A.I., Claycomb, J.M. and Miska, E.A. *Dev Cell* (2017) doi 10.1016/j.devcel.2017.07.002.
- “Multi-omics Analyses of Starvation Responses Reveal a Central Role for Lipoprotein Metabolism in Acute Starvation Survival in *C.elegans*”; Harvald, E.B., Sprenger, R.R., Dall, K.B., Ejsing, C.S., Nielson, R., Mandrup, S., Murillo, A.B., Larance, M., Gartner, A., Lamond, A.I. and Faergeman, N.J. *Cell Systems* (2017) doi 10/1016/j.cels.2017.06.004
- “New Apex in Proteome Analysis”; Ly, T. and Lamond, A.I. *Cell Systems* (2017) doi 10.1016/j.cels.2017.06.009.
- “Comparative genetic, proteomic and phosphoproteomic analysis of *C.elegans* embryos with a focus on ham-1/STOX and pig-1/MELK in dopaminergic neuron development”; Offenburger, S.L., Bensaddek, D., Murillo, A.B., Lamond, A.I. and Gartner, A. *Sci Rep.* (2017) doi 10.1038/s41598—017-04375-4.
- “Corrigendum: Common genetic variation drives molecular heterogeneity in human iPSCs”; Kilpinen, H., Goncalves, A., Leha, A., Afzal, V., Alasoo, K., Ashford, S., Bala, S., Bensaddek, D., Casale, F.P., Culley, O.J., Danecek, P., Faulconbridge, A., Harrison, P.W., Kathuria, A., McCarthy, D., McCarthy, S.A., Meleckyte, R., Memari, Y., Moens, N., Soares, F., Mann, A., Streeter, I., Agu, C.A., Alderton, A., Nelson, R., Harper, S., Patel, M., White, A., Patel, S.R., Clarke, L., Halai, R., Kirton, C.M., Kolb-Kococinski, A., Beales, P., Birney, E., Danovi, D., Lamond, A.I., Ouweland, W.H., Vallier, L., Watt, F.M., Durbin, R., Stegle, O. and Gaffney, D.J. *Nature* (2017) doi 10.1038/nature23012.