

Curriculum Vitae – Professor Frank Gannon

Surname: Gannon

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Born: Sligo, Ireland

Languages: English (mother tongue)
French (excellent)
German (fair)
Irish (good)

Education

Secondary:
1960 – 1966 Summerhill College, Sligo, Ireland
Leaving Certificate

University:
1966 – 1970 University College, Galway, Ireland
B.Sc. (Hons):
Subject: Biochemistry

1973 University of Leicester, England
Ph.D. Degree:
Title: L-serine dehydratase from *Arthrobacter globiformis*
Director: Sir Hans L. Kornberg
Supervisor: Dr. K.M. Jones

1973 – 1975 Department of Biochemistry
University of Wisconsin, Madison, Wisconsin, U.S.A.
Postdoctoral Fellow with Prof. Jack Gorski
Topic: The Estrogen Receptor Protein

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1975 – 1981 Faculté de Médecine, and INSERM unit, University of Strasbourg
France
Postdoctoral Fellow with Prof. Pierre Chambon
Topic: Use of Recombinant DNA techniques to study the structure and
control of expression of Estrogen responsive Genes

Current Appointment

2011 – present Director and CEO, QIMR Berghofer Medical Research Institute,
Brisbane, Australia

Professional Appointments

1977 – 1981 Chargé de Recherche of the Institut National de la Santé et de la
Recherche Médicale (INSERM), Director: Professor Pierre Chambon

1981 – 1994 Department of Microbiology, University College, Galway, Ireland

1981 – 1990 Statutory Lecturer

1990 – 1994 Associate Professor
Special responsibility for Biotechnology at UCG
Director of Research Group
Research Topics:
- The control of expression of Eukaryotic Genes
- DNA Probes for the identification of Micro-organisms

1987 – 1994 Founding Director, The National Diagnostics Centre, University
College Galway
This was established by the Irish Government in 1987 to accelerate
the transfer of Biotechnology to Industry.
In 1994, the earnings of the Centre had reached £1,000,000, growing
at a rate of 25% per annum.

1989 – present Founder and Member of the Board of Bimini (Ireland)

1994 – 2007 Executive Director of the European Molecular Biology Organisation
(EMBO)
Senior Scientist at EMBL
Associate Editor of The EMBO Journal

1994 – 1999 Scientific Coordinator EMBL

1995 – 1997 Coordinator Structural Biology and Bio-computing programme at
EMBL

1999 – 2002 Adjunct Professor, National University of Ireland, Galway (Honorary)

1999 – 2006 Member of the Board of Eurogentec (Belgium)

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2000 – 2009	Founding Senior Editor, <i>EMBO Reports</i>
2001 – 2007	Secretary General, European Molecular Biology Conference, (EMBC)
2002 – 2007	Member of the Board of Phenex (Germany)
2002 – 2004 & 2007 – 2010	Member of the Board of Science Foundation Ireland
2007 – 2010	Director General, Science Foundation Ireland
2005 – 2008	Associate Editor of <i>Molecular Systems Biology</i>
2006 – present	Founder and Scientific Board member of Elara Pharmaceuticals
2007 – 2010	Member of Forfás Board
2009 – 2010	Member of the Innovation Taskforce established by the Irish Government
2011 – present	Director and CEO, QIMR Berghofer Medical Research Institute, Brisbane, Australia
2011 – present	Adjunct Professor, Institute for Molecular Bioscience and the UQ Centre for Clinical Research, The University of Queensland
2011 – present	Member, Herston Imaging Research Facility (HIRF) Executive Committee
2013 – present	Board Member, Association of Australian Medical Research Institutes (AAMRI)
2013 – present	Member, Herston Health Precinct Redevelopment Taskforce
2013 – present	Board Member, Queensland Head and Neck Cancer Centre (QHNCC)
2014 – present	Board Member, Brisbane Diamantina Health Partners (BDHP)
2014 – present	Chair, Q-Pharm Pty Limited

Research Grants

- The European Community; Multiple awards in each of FP4, FP5, FP6 and FP7, Programmes
- Diverse Irish agency awards (NBST, EOLAS, FORBAIRT, TEAGASC, Health Research Board, The Irish Cancer Society)
- Industries including; Abbott Laboratories, Schering-Plough, Wyeth, Merck Sharpe and Dohme

Memberships in Scientific Committees

1980 – 2008	Ph.D. Thesis examiner in France, Belgium, Ireland, and England
1980 – present	Reviewer of grant proposals and for research journals
1981 – 1994	Member of EC experts committees for: The Human Genome Project, Human Capital and Mobility and Biotechnology
1992 – 1994	Member of the Scientific Committee of the Health Research Board Ireland
1993	Invited Reviewer of the EC activities in Biotechnology in China
1994	Member of the Science, Technology and Innovation Advisory Council established by the Irish Government and co-author of the resulting Policy Report "Making Knowledge Work for Us" from that Council.
1996 – 1999	Member of the Scientific Advisory Committee of the SARS International Center, Bergen
1997 – 1998	Member of the European Science and Technology Assembly (ESTA)
1997 - 2003	Advisor to the Asia Pacific Rim International Molecular Biology Network (AIMBN)
1998 - 2003	Member of the Scientific Council of the Stazione Zoologica, 'Anton Dohrn', Naples
1998 - 2006	Member of the International Advisory Board of the International Institute for Molecular and Cell Biology, Warsaw
1998 - 2006	Member of the International Advisory Board for the Institute of Infectious Disease and Molecular Medicine at UCT, Capetown
1998 – present	Member of the International Advisory Board for the Institute for Molecular Bioscience, Brisbane, Australia
1999 – 2007	Member of the External Advisory Group of the Marie Curie Programme
1999 – 2003	Member of the Scientific Advisory Board of BioReliance (USA)
2002 – 2007	Member of the External Advisory Group for the EC Mobility and Training Programme
2004 – 2005	Chair of the Biomedical Selection Panel for the European Young Investigator Award (EURYI)

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2004 – present	Member of the Advisory Board of the Molecules and Cells, the Official Publication of the Korean Society for Molecular and Cellular Biology
2004 – 2007	Member of the NCBES Advisory Board, The National Centre for Biomedical Engineering Science, Galway, Ireland
2004 – 2006	Member of the Scientific Advisory Board of Evotec-OAI
2005 – 2007	Member of the International Advisory Board for Biotechnology for the King of Jordan
2008 – present	Member of Scientific Advisory Committee of the International Union of Biochemistry and Molecular Biology (IUBMB)
2008 –2011	Member of the European Research Area Advisory Board (ERAB), established to advise the EU Commissioner for Research
2008 – 2011	Member of the EUROHORCS (Heads of Europea Research Councils) and member of the Steering Committee of that Organization

Extramural Activities

1983 – 1986	Consultant to Sanofi-Elf BioReserche
1984	Advisor to the F.A.O. Karnal India
1992	Jury Member Prix Franqui, Brussels
1995	Jury Member Prix Joseph Maisin, Brussels
1998 – 2000	Coordinator of EU funded EBNIC (European Biotechnology Node for Interaction with China)

Awards

1972	Medal of the Irish Biology Society
1989	Elected member of EMBO
1993	Society of Industrial Microbiology Pan Labs Award
1999	Doctor Honoris Causa was awarded by the Josef Attila University, Szeged, Hungary
2005	Elected member of Academia Europea
2006	NUI Galway Alumni Award for Natural Sciences

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- 2007 Elected member of the Royal Irish Academy
- 2007 Awarded Diplome d'Honneur from the Federation of European Biochemical Societies (FEBS)
- 2008 Doctor Honoris Causa, Queens University, Belfast, Northern Ireland
- 2008 Doctor Honoris Causa, University of Queensland, Brisbane, Australia
- 2008 Elected Member of the Mexican Academy of Medicine
- 2009 The Sam Haughton Medal from the Royal Academy of Medicine in Ireland
- 2009 Elected member of the European Academy of Cancer Sciences
- 2012 Fellow of the Queensland Academy of Arts and Science
- 2014 Elected Fellow of the Australian Academy of Health and Medical Sciences

Other Activities

Invited Speaker on numerous occasions to meetings in Australia, Belgium, Canada, China, Czech Republic, Croatia, Denmark, England, France, Germany, Holland, India, Ireland, Italy, Japan, Korea, Poland, Portugal, Scotland, South Africa, Spain, Switzerland, USA

Lectures/Presentations 2011 – present

- Welcome address to Year 11/12 Senior Science Students from the National Youth Science Forum, QIMR, 24 February, 2011
- The Redfern Lecture “Switched on by the Estrogen Receptor”, invited lecturer, University of Leicester Department of Biochemistry 50th Anniversary Celebration, Leicester, United Kingdom, 21 June, 2011
- “How the Estrogen Receptor Switches on Genes”, invited speaker, UQCCR Seminar Series, Brisbane, 7 July, 2011
- “How the oestrogen receptor works and why this is important”, invited speaker, The 20th Annual RBWH Health Care Symposium, Brisbane, 11 October, 2011
- “Switched on by Estrogens”, invited lecturer, The John Curtin School of Medical Research, Canberra, 14 October, 2011
- Guest speaker at the QUT Vice-Chancellor’s Forum, Queensland University of Technology (QUT), 9 February, 2012
- “Understanding how the oestrogen receptor works: Does it matter to clinicians?”, invited presenter RBWH Medical Grand Rounds, 10 September, 2012
- “Developing broader collaborations to accelerate medical research, building new directions”, invited speaker, QTHA Conference, Brisbane, 18 September, 2012

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- “Controlling gene expression”, invited speaker, 15th A-IMBN Annual Conference Shanghai, China, 22-24 October, 2012
- “How the Estrogen Receptor works and how to stop it”, invited lecturer, Eskitis Institute for Cell and Molecular Therapies, Griffith University, 15 November, 2012
- “A European Perspective”, invited speaker, NHMRC Peer Review Symposium - *Evolutions in peer review: Decision making strategies for the best return on investment of public funds*. Canberra, 21 February, 2013
- “Is Research Useful?”, invited speaker, The Australian Medical Student’s Association (AMSA), Gold Coast, 11 July, 2013
- Guest Speaker ,The University of Queensland graduation ceremony for students of the Faculty of Science, UQ, 18 July, 2013
- “How the estrogen receptor switches on a gene”, Invited speaker, TRI Lecture Series, TRI, 6 August, 2013
- “Innovative Models for Drug Discovery & Vaccine Development through Partnerships”, Chair and Invited speaker, India Bio 2014 Conference, Bangalore, India, 11 February, 2014
- “Making a difference by working together”, Invited speaker, 10th Indo-Australian Conference on Biotechnology – Epithelial Development, Function and Disease: New Frontiers and Therapies, Manipal University, India, 13 April, 2014
- “Controlling gene expression by the estrogen receptor”, invited lecturer, National Centre for Biological Sciences, Bangalore, India, 14 April, 2014
- Tests – Tissues – Trials Meeting, invited Co-Chair Session 2: Molecular Diagnostics at the PAH-TRI, Translational Research Institute (TRI), Brisbane, 22 May, 2014
- “Satisfaction in Life: Choices in research topics and career pathways”, invited Keynote Speaker, ASMR Queensland Postgraduate Student Conference, TRI, 28 May, 2014
- Chair: Human Health and Medical Research Session, Queensland-Shanghai Science and Technology Innovation Forum 2014, QUT, 2 June, 2014
- Invited speaker, Queensland Vaccine Development Opportunities, LSQ Breakfast, Bio International Convention, San Diego, California, USA, 23 June, 2014
- “I came to Galway to study Bio, and you would never believe what happened”, Invited speaker, NUI Galway Biochemistry 50 Year Anniversary Symposium, Galway, Ireland, 10 July, 2014
- “Is Translational just a buzz word?”, invited speaker, The Future of Medical Research Conference, Sydney, 26 September, 2014
- “The estrogen receptor and me”, invited speaker, 2014 Leaders in Science and Medicine seminar series, Garvan Institute, Sydney, 29 September, 2014
- “New insights - better cure?”, invited speaker, How to efficiently translate discoveries into therapies, Personalized Medicine Session, Discussion Leader, EMBO Conference – Stem Cells and Epigenetics in Cancer, Hong Kong, 17 October, 2014
- Invited speaker and moderator, Session 2 – Models of Translation – Discovery Translation Models, TRX14: Translational Research Excellence, Brisbane, 24 October, 2014

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- “The connection between Medical Research and Business”, invited orator, Millis Oration, AusBiotech National Conference, Gold Coast, 30 October, 2014
- “Molecular understanding of obesity related carcinogenesis – endometrial cancer as a disease model”, invited speaker, Brisbane Gynaecological Cancer Research Symposium, TRI, Brisbane, 31 October, 2014
- “Placing Brisbane at the forefront of cancer translational research”, invited Plenary Lecturer, Brisbane Cancer Conference, Brisbane, 19 December, 2014
- Invited guest speaker, South Brisbane Rotary Club, 15 April, 2015
- “Gene Regulation”, invited plenary speaker, Science on the Swan, Perth, 22 April, 2015
- “Responding to change”, Faculty seminar speaker, QIMR Berghofer, 30 April, 2015
- “Expression in different contexts”, invited speaker, QUT School of Biomedical Sciences seminar series, QUT Gardens Point Campus, 15 May, 2015
- “A city built on knowledge”, Asia Pacific Cities Summit and Mayor's Forum, BCEC, Brisbane, 6 July, 2015

Publications in Peer Reviewed Journals (h-index 45)

1. Gannon, F. and Gorski, J. (1976) Nuclear binding of the estrogen receptor in whole uteri. **Steroids** 28, 669-697.
2. Gannon, F., Bridgeland, E.S. and Jones, K.M. (1977) L-serine dehydratase from *Arthrobacter globiformis*. **Biochemical Journal** 161, 345-355.
3. Gannon, F. and Jones, K.M. (1977) An activity strain for L-serine dehydratase in polyacrylamide gels. **Analytical Biochemistry** 79, 594-596.
4. Bellard, M., Gannon, F. and Chambon, P. (1978) Nucleosome structure III: The structure and transcriptional activity of the chromatin containing the ovalbumin and globin genes in chick oviduct nuclei. **Cold Spring Harbor Symp. On Chromatin** XLII, 779-791.
5. Mandel, J.L., Breathnach, R., Gerlinger, P., Le Meur, M., Gannon, F. and Chambon, P. (1978) Organization of coding and intervening sequences in the chicken ovalbumin split gene. **Cell** 14, 641-653.
6. Breathnach, R., Benoist, C., O'Hare, K., Gannon, F. and Chambon, P. (1978) Ovalbumin gene: evidence for a leader sequence in mRNA and DNA sequences at the exon-intron boundaries. **Proc. Natl. Acad. Sci. USA**, 75, 4853-4857.
7. Mercereau-Puijalon, O., Royal, A., Cami, B., Garapin, A., Krust, A., Gannon, F. and Kourilsky, P. (1978) Synthesis of an ovalbumin-like protein by *Escherichia coli* K12 harbouring a recombinant plasmid. **Nature** 275, 505-510.
8. Gannon, F., O'Hare, K., Perrin, F., Lepennec, J.P., Benoist, C., Cochet, M., Breathnach, R., Royal, A., Garapin, A., Cami, B. and Chambon, P. (1979)

- Organization and sequences at the 5' end of a cloned complete ovalbumin gene. **Nature** 278, 428-434.
9. Royal, A., Garapin, A., Cami, B., Perrin, F., Mandel, J.L., LeMeur, M., Bregegere, F., Gannon, F., Lepennec, J.P., Chambon, P. and Kourilsky, P. (1979) The ovalbumin gene region: common features in the organisation of three genes expressed in chicken oviduct under hormonal control. **Nature** 279, 125-132.
 10. Cochet, M., Perrin, F., Gannon, F., Krust, A., Chambon, P., McKnight, G.S., Lee, D.C., Mayo, K.E. and Palmiter, R. (1979) Cloning of an almost full-length chicken conalbumin double-stranded cDNA. **Nucleic Acids Research** 6, 2435-2452.
 11. Cochet, M., Gannon, F., Hen, R., Maroteaux, L., Perrin, F. and Chambon, P. (1979) Organisation and sequence studies of the 17-piece chicken conalbumin gene. **Nature** 282, 567-574.
 12. Heilig, R., Perrin, F., Gannon, F., Mandel, J.L. and Chambon, P. (1980) The ovalbumin gene family: Structure of the X gene and evolution of duplicated split genes. **Cell** 20, 625-637.
 13. Gannon, F., Jeltsch, J.M. and Perrin, F. (1980) A detailed comparison of the 5' end of the ovalbumin gene cloned from chicken oviduct and erythrocyte DNA. **Nucleic Acids Research** 8, 4405-4421.
 14. Durnam, D.M., Perrin, F., Gannon, F. and Palmiter, R. (1980) Isolation and characterization of the mouse metallothionein-I gene. **Proc. Natl. Acad. Sci. USA**, 77, 6511-6515.
 15. Christophe, D., Brocas, H., Gannon, F., De Martynoff, G., Pays, E. and Vassart, G. (1980) Molecular cloning of bovine thyroglobulin complementary DNA: Characterization of 2500 base-pair and 1900 base-pair fragments. **European Journal of Biochemistry** 111, 419-423.
 16. Pays, E., Delronche, M., Lheureux, M., Vervoort, T., Bloch, J., Gannon, F. and Steinert, M. (1980) Cloning and characterization of DNA sequences complementary to messenger ribonucleic acids coding for the synthesis of two surface antigens of *Trypanosoma brucei*. **Nucleic Acids Research** 8, 5965-5981.
 17. Reynaud, C.-A., Ben Tahar, S., Krust, A., Amaral de Lima Franco, M.-P., Goldenberg, S., Gannon, F. and Scherrer, K. (1980) Restriction mapping of cDNA recombinants including the adult chick and duck globin messenger sequences: a comparative study. **Gene** 11, 259-269.
 18. May, E., Jeltsch, J.M. and Gannon, F. (1981) Characterization of a gene encoding a 115 K super T antigen expressed by a SV40-transformed rat cell line. **Nucleic Acids Research** 9, 4111-4128.
 19. Masiakowski, P., Breathnach, R., Bloch, J., Gannon, F. and Chambon, P. (1982) Cloning of cDNA sequences of hormone-regulated genes from the MCF-7 human breast cancer cell line. **Nucleic Acids Research** 10, 7895-7903.

20. Gerlinger, P., Krust, A., LeMeur, M., Perrin, F., Cochet, M., Gannon, F., Dupret, D. and Chambon, P. (1982) Multiple initiation and polyadenylation sites for the chicken ovomucoid transcription unit. **J. Mol. Biol.**, 162, 345-364.
21. Donnelly, W.J., O'Callaghan, D.M., Carroll, D.P., McConnell, D.J. and Gannon, F. (1984) Multiple forms of calf prochymosin and chymosin. **Biochemical Society Transactions** 12, 440–441.
22. McConnell, D.J., Hughes, D., Chen, Y-F., Carroll, D.P., Donnelly, W.J., Ollington, S.F., Quinn, D., Barry, T. and Gannon, F. (1984) Towards the cloning of the calf prochymosin gene. **Biochemical Society Transactions** 12, 487–488.
23. Powell, R., Neilan, J. and Gannon, F. (1986) Plaque dot assay. **Nucleic Acids Research** 14, 1541.
24. Henry, L. and Gannon, F. (1987) A hybridization and enzyme blocking method to enrich minor cDNA sequences. **Bioscience Reports** 7, 509-515.
25. McEvoy, T.G., Stack, M., Barry, T., Keane, B., Gannon, F. and Sreenan, J.M. (1987) Direct gene transfer by microinjection. **Theriogenology** 27, 258.
26. McEvoy, T., Stack, M., Keane, B., Barry, T., Sreenan, J. and Gannon, F. (1988) The expression of a foreign gene in salmon embryos. **Aquaculture** 68, 27-37.
27. Walls, D. and Gannon, F. (1988) The expression of novel antigens from the Epstein-Barr Virus large internal repeat. **The EMBO Journal** 7, 1191-1196.
28. Walls, D., Perricaudet, M. and Gannon, F. (1988) The analysis of EBV proteins which are antigenic in vivo. **Nucleic Acids Research** 16, 2859-2872.
29. Gannon, F. (1988) Training Biotechnologists for the future. **Education** 3, 9-11.
30. Nestor, P., Neilan, J. and Gannon, F. (1988) The isolation of chicken and African green monkey genomic clones for the oestrogen receptor. **Biochemical Society Transactions** 16: 388.
31. Keaveney, M., Neilan, J. and Gannon, F. (1989) An analysis by restriction enzymes of the genomic structure of the 3' untranslated region of the human estrogen receptor gene. **Biochem Biophys Acta** 1007, 289-294.
32. Hennigan, M., Vaughan, L.M., Foster, T.J., Smith, P. and Gannon, F. (1989) Characterization of *Aeromonas salmonicida* strains using DNA probe technology. **Canadian Journal of Fisheries and Aquatic Science** 46, 877-879.
33. Barry, T., Stack, M., Morgan, A. and Gannon, F. (1989) The identification of cDNA clones that include the 3' end of mRNA. **Gene Analysis Techniques** 6, 21-23.
34. Heery, D.M., Powell, R., Gannon, F., and Dunican, L.K. (1989) Curing of a plasmid from E.coli using high-voltage electroporation. **Nucleic Acids Research** 17, 10131.

35. Wolff, J. and Gannon, F. (1989) cDNA and deduced Amino Acid Sequence of *Salmo salar* (Atlantic salmon) adult hemoglobin Alpha Chain. **Nucleic Acids Research** 17 4369.
36. Barry, T., Powell, R. and Gannon F. (1990) A general method for the generation of DNA probes for microorganisms. **Biotechnology** 8, 233-236.
37. Heery, M., and Gannon, F. (1990) A simple method for subcloning DNA fragments from gel slices. **Trends in Genetics** 6, 173.
38. Powell, R. Heery, D., Dawson, M.T., Dunican, L.K. and Gannon, F. (1990) Skimmed milk as an alternative to X-gal for visual discrimination of background in λ gt 11 libraries. **Nucleic Acids Research** 18, 2190.
39. Powell, R., Heery, D.M., Gannon, F. and Dunican, L.K. (1990) Electrotransfection of *Escherichia coli* with λ gt 10 DNA. **FEMS Microbiology Letters** 72, 225-228.
40. Byrnes, L. and Gannon, F. (1990) Atlantic Salmon (*Salmo salar*) Serum Albumin: cDNA Sequence, Evolution, and Tissue Expression. **DNA and Cell Biology**, 9, 647-655.
41. Powell, R., Byrnes, L., Barry, T. and Gannon, F. (1990) A rapid procedure to isolate major abundance mRNA transcripts and study the transcription profile of a tissue. **Gene Analysis Techniques** 2, 213-215.
42. Fotsis, T., Murphy, C. and Gannon, F. (1990) Nucleotide sequence of the bovine insulin-like growth factor 1 (IGF-1) and its IGF-1A precursor, **Nucleic Acids Research**, 18, 676.
43. Powell, R., Byrnes, L. and Gannon, F. (1990) Liver gene expression: cloning of abundant mRNA transcripts from the liver of Atlantic salmon (*Salmo salar*) Identification of salmon apolipoprotein A-1 gene. **Proceedings - European Congress on Biotechnology** 5 (1) 453-456.
44. Keaveney, M., Klug, J., Dawson, M.T., Nestor, P.V., Forde, R. and Gannon F. (1991) Evidence for a previously unidentified upstream exon in the human estrogen receptor gene. **Journal of Molecular Endocrinology** 6, 111-115.
45. Powell, R., Higgins, D., Wolff, J., Byrnes, L., Stack, M., Sharp, P. and Gannon, F. (1991) The salmon gene encoding apolipoprotein A-1: cDNA sequence, tissue expression and evolution. **Gene** 104, 155 -161.
46. Horan, R., Powell, R., McQuaid, S., Gannon, F. and Houghton, J.A. (1991) Association of foreign DNA with porcine spermatozoa. **Archives of Andrology** 26, 83-92.
47. Powell, R., Byrnes, L. and Gannon, F. (1991) Sequence of a cDNA clone encoding an Atlantic salmon ribosomal protein. **Gene** 101, 303-304.

48. Barry, T., Colleran, G., Glennon, M., Dunican, L.K. and Gannon, F. (1991) The 16s/23s Ribosomal Spacer Region as a Target for DNA Probes to Identify Eubacteria. **Genome Research** 1, 51-56.
49. Barry, T. and Gannon, F. (1991) Direct genomic DNA amplification from autoclaved infectious microorganisms using PCR technology. **PCR Methods and Applications** 1, 75.
50. Horan, R., Powell, R., Bird J.M., Gannon, F. and Houghton, J.A. (1991) The effects of electroporabilization on the association of foreign DNA with pig sperm. **Archives of Andrology** 28, 105-114.
51. Moriarty, M., Maher, M., Morton, G., Flavin, A., Mooney, E., Neilan, J., Nestor, P., Horgan, P.G., Kerin, M., Waldron, D., Gannon, F., et al. (1991) Irish association for cancer research. **Irish Journal of Medical Science** 160(4), 116-126.
52. Byrnes, L., and Gannon, F. (1992) Sequence analysis of a second cDNA encoding Atlantic salmon (*Salmo salar*) serum albumin. **Gene** 120, 319-320.
53. Murphy, T.M., Rodger, H.D., Drinan, E.M., Gannon, F., Kruse, P. and Korting, W. (1992) The sequential pathology of pancreas disease in Atlantic salmon farms in Ireland. **Journal of Fish Diseases**.15, 401-408.
54. Keaveney, M., Klug, J., and Gannon, F. (1992) Sequence analysis of the 5' flanking region of human Estrogen Receptor gene. **DNA Sequence** 2, 347-358.
55. Bird, J. Powell, R. Horan, R. Gannon, F. and Houghton, J.A. (1992) The binding of Exogenous DNA fragments to Bovine Spermatozoa. **Animal Biotechnology** 3, 181-200.
56. Hiney, M. Dawson, M.T., Heery D.M., Smith P.R., Gannon, F. and Powell, R. (1992) DNA Probe for *Aeromonas salmonicida*. **Applied and Environmental Microbiology** 58, 1039-1042.
57. Cormican, M.G., Barry, T. Gannon, F. and Flynn, J. (1992) Use of polymerase chain reaction for early identification of *Mycobacterium tuberculosis* in positive cultures. **Journal of Clinical Pathology** 45, 601-604.
58. Horan, R., Powell, R., Gannon, F. and Houghton, J.A. (1992) The fate of foreign DNA associated with pig sperm following the *in vitro* fertilization of zona free hamster ova and zona-intact pig ova. **Archives of Andrology: Journal of Reproductive Systems** 29,199-206.
59. Barry, T., Geary, S., Hannify, S., MacGearailt, C., Shaloo, M., Heery, D., Gannon, F. and Powell, R. (1992) Rapid mini-preparations of total RNA from bacteria. **Nucleic Acids Research** 20, 4940.
60. McCusker, J., Dawson, M.T., Noone, D., Gannon, F. and Smith, T. (1992) Improved method for the direct PCR amplification from whole blood. **Nucleic Acids Research** 20, 6747.

61. Bearzotti, M., Perrot, E., Michard-Vanhee, C., Jolivet, G., Attal, J., Theron, M.-C., Puissant, C., Dreano, M., Kopchick, J.J., Powell, R., Gannon, F., Houdebine, L.-M. and Chourrout, D. (1992) Gene expression following transfection of fish cells. **Journal of Biotechnology** 26, 315-325.
62. Keaveney, M., Parker, M.G. and Gannon, F. (1993) Identification of a functional role for the 3' region of the human estrogen receptor gene. **Journal of Molecular Endocrinology** 10, 143-152.
63. Barry, T., Glennon M, Smith, T. and Gannon, F. (1993) Detection of *Mycobacterium bovis* in bovine blood by combined PCR and DNA probe methods. **Veterinary Record** 132, 66-67.
64. Hardiman, G., Wolff, J., Peden, J. and Gannon, F. (1994) Isolation of Atlantic salmon (*Salmo salar* L.) cytochrome c oxidase subunit II gene (*cox II*). **Journal of Applied Ichthyologie** 10, 64-68.
65. Noone, D., Glennon, M., Gannon, F. and Smith, T. (1994) Important variables for direct PCR amplification from blood. **The Genetic Engineer and Biotechnologist** 14, 149-154.
66. Hardiman, G., Byrnes, L., Peden, J., Wolff, J. and Gannon, F. (1994) Cloning and sequencing of the Atlantic salmon (*Salmo salar*) cytochrome c oxidase subunit III gene (*coxIII*) and analysis of *coxIII* expression during parr-smolt transformation. **Molecular Marine Biology and Biotechnology** 3, 210-216.
67. Morrison, C. and Gannon, F. The impact of the PCR plateau phase on quantitative PCR. (1994) **Biochimica et Biophysica Acta** 1219, 493-498.
68. Nestor, P.V., Forde, R.C., Webb, P., and Gannon, F. (1994) The Genomic Organisation, Sequence and Functional Analysis of the 5' Flanking Region of the Chicken Estrogen Receptor Gene. **The Journal of Steroid Biochemistry and Molecular Biology** 50, 121-130.
69. Wagner, A., Deryckere, F., McMorrow, T. and Gannon, F. (1994) Tail-to-tail orientation of the Atlantic salmon alpha- and beta-globin genes. **J. Mol. Evolution.** 38, 28-35.
70. Gannon, F. (1994) DNA probes for the identification of microorganisms. **J. of Industrial Microbiology**, 13, 71-76.
71. Hardiman, G., Byrnes, L. and Gannon, F. (1994) An analysis of highly expressed salmon liver genes during smoltification in the Atlantic salmon (*Salmo salar*) **Mol. Mar. Biol. Biotech.** 3, 51-56.
72. Power, S.C., Cereghini, S., Rollier, A. and Gannon, F. (1994) Isolation and functional analysis of the promoter of the bovine serum albumin gene. **Biochem. & Biophys. Res. Comm.** 203, 1447-1456.
73. Glennon, M., Smith, T., Cormican, M., Noone, D., Barry, T., Maher, M., Dawson, M., Gilmartin, J.J. and Gannon, F. (1994) The ribosomal RNA intergenic spacer region:

- a target for the PCR based diagnosis of tuberculosis. **Tubercle and Lung Disease** 75, 353-360.
74. Deryckere, F. and Gannon, F. (1994) A one-hour minipreparation technique for extraction of DNA binding proteins from animal tissues. **Biotechniques** 16 (3) 405.
75. Maher, M., Palmer, R., Gannon, F., and Smith, T. (1995) Relationship of a Novel Fish Pathogen to *Streptobacillus moniliformis* and the Fusobacteria Group based on 16S Ribosomal RNA Analysis. **Systematic and Applied Microbiology**, 18, 79-84.
76. Lavin, F., Kane, M., Forde, A., Shah, P., Gannon, F. and Daly, K. (1995) Comparison of five cardiac markers in the detection of reperfusion following thrombolysis in acute myocardial infarction. **Br Heart J.** 73, 422-427.
77. Murphy, T.M., Drinan, E.M., and Gannon, F. (1995) Studies with an experimental model for pancreas disease of Atlantic Salmon. **J. Aquaculture Research** 26, 861-874.
78. Cormican, M.G., Glennon, M., Ni Riain, U., Smith, T., Flynn, J. and Gannon, F. (1995) Evaluation of a PCR Assay for Detection of *Mycobacterium tuberculosis* in Clinical Specimens. **Diagnostic Microbiology and Infectious Disease.** 22, 357-360.
79. Babin, P.J., Deryckere, F. and Gannon, F. (1995) Presence of an extended duplication in the putative low-density-lipoprotein receptor-binding domain of apolipoprotein B. Cloning and characterization of the domain in salmon. **Eur. J. Biochem.** 230, 45-51.
80. Conti, F.G., Powell, R., Pozzi, L., Zezze, G., Faraggiana, T., Gannon, F. and Fabbrini, A. (1995) A Novel Line of Transgenic Mice (RSV/LTR-bGH) Expressing Growth Hormone in Cardiac and Striated Muscle. **Growth Regulation** 5, 101-108.
81. Maher, M., Dowdall, D., Glennon, M., Walshe, S., Cormican, M., Wiesner, P., Gannon, F. and Smith, T. (1995) The sensitive detection of fluorescently labelled PCR products using an automated detection system. **Molecular and Cellular Probes** 9, 265-276.
82. Deryckere, F., Byrnes, L., Wagner, A., McMorrow, T. and Gannon, F., Salmon HNF1: cDNA sequence, evolution, tissue specificity and binding to the salmon serum albumin promoter. (1995) **J. Mol. Biol.** 247, 1-10.
83. Pope C, Nestor PV, Morrison C and Gannon F. (1995) Can PCR be used to normalise a cDNA library? **Biochem Soc Trans** May;23(2):383S.
84. Hardiman, G. and Gannon, F. (1996) Differential transferrin gene expression in Atlantic salmon (*Salmo salar* L.) freshwater parr and seawater smolts. **J. Applied Ichthyologie** 12, 43-47.

85. McMorrow, T., Wagner, A., Deryckere, F. and Gannon, F. (1996) Structural Organization and Sequence Analysis of the Globin Locus in Atlantic Salmon. **DNA and Cell Biology** Vol 15, No. 5, 407-414.
86. Glennon, M., Cormican, M.G., Ni Riain, U., Heginbotham, M., Gannon, F. and Smith, T. (1996) A *Mycobacterium malmoeense* -specific DNA probe from the 16S/23S rRNA intergenic spacer region. **Molecular and Cellular Probes** 10, 337-345.
87. Glennon, M., Sheehan, S., McKiernan, J., Smith, T., Gannon, F. and Cryan, B. (1996) Application of a PCR based DNA probe for the rapid identification of *Mycobacterium malmoeense* isolated from a case of cervical adenitis. **Journal of Infection**, 33, 231-233.
88. Deryckere, F., McNair, A. and Gannon, F. (1996) Hepatocyte nuclear factor 4 (HNF4) binding sites in the salmon HNF1 promoter. **Gene**, 175, 35-41.
89. Flouriot, G., Nestor, P., Kenealy, M.R., Pope, C. and Gannon, F. (1996) An S1 Nuclease Mapping Method for Detection of Low Abundance Transcripts. **Anal. Biochem.** 237, 159-161.
90. Kenealy MR, Flouriot G, Pope C and Gannon F. (1996) The 3'untranslated region of the human estrogen receptor gene post-transcriptionally reduces mRNA levels. **Biochem Soc Trans** 24(1):107S.
91. Stenson C, McNair A, Byrnes L and Gannon F. (1996) Cloning of an Atlantic salmon transcription factor. **Biochem Soc Trans** 24(1):106S.
92. McMorrow, T., Wagner, A., Harte, T. and Gannon, F. (1997) Sequence analysis and tissue expression of a non-Bohr beta-globin cDNA from Atlantic salmon. **Gene** 189, 183-188.
93. Flouriot, G., Pope, C., Kenealy, M-R. and Gannon, F. (1997) Improved efficiency for primer extension by using a long, highly-labeled primer generated from immobilized single-stranded DNA templates. **Nucl. Acids Res.** 25, 1658-1659.
94. Dandekar, T., Beyer, K., Bork, P., Kenealy, M.-R., Pantopoulos, K., Hentze, M., Sonntag-Buck, V., Flouriot, G., Gannon, F., Keller, W. and Schreiber, S. (1998) Systematic genomic screen and analysis of mRNA in untranslated regions and mRNA precursors: combining experimental and computational approaches. **Bioinformatics** 14, 271-278.
95. Flouriot, G., Griffin, C., Kenealy, M.R., Sonntag-Buck, V. and Gannon, F. (1998) Differentially Expressed RNA Isoforms of the Human Estrogen Receptor-Alpha Gene are Generated by Alternative Splicing and Promoter Usage. **Molecular Endocrinology** 12, 1939-1954.
96. Griffin, C., Flouriot, G., Sonntag-Buck, V., Nestor, P. and Gannon, F. (1998) Identification of novel Chicken Estrogen Receptor alpha mRNA isoforms generated by alternative splicing and promoter usage. **Endocrinology** 139, 4614-4625.

97. Griffin, C., Flouriot, G., Sonntag-Buck, V. and Gannon, F. (1999) Two functionally different protein isoforms are produced from the Chicken Estrogen Receptor-Alpha Gene. **Molecular Endocrinology** 139, 1571-1587.
98. Flouriot, G., Brand, H. and Gannon, F. (1999) Identification of differentially expressed 5'-end mRNA variants by an improved RACE technique (PEETA) **Nucleic Acids Research**, 27, 15, e8.
99. Auwerx J, Baulieu, E, Beato M, et al. (Nuclear Receptors Nomenclature Committee). (1999) A unified nomenclature system for the nuclear receptor superfamily. Nuclear Receptors Nomenclature Committee. **CELL** 97: 161-163.
100. Stenson, C., McNair, A., Byrnes, L., Murphy, M., Smith, T. and Gannon, F. (2000) Atlantic salmon HNF-3/fork head: cDNA sequence, evolution, expression and functional analysis. **DNA and Cell Biology** 19, 59-68.
101. McNair, A., Cereghini, S., Brand, H., Smith, T., Breillat, C. and Gannon, F. (2000) Synergistic activation of the Atlantic salmon hepatocyte nuclear factor (HNF)1 promoter by the orphan nuclear receptors HNF4 and chicken ovalbumin upstream promoter transcription factor I (COUP-TFI). **Biochemical J.** 352, 557-564.
102. Kenealy, M-R., Flouriot, G., Sonntag-Buck, V. Dandekar, T., Brand, H. and Gannon, F. (2000) The 3' Untranslated Region of the Human Estrogen Receptor Alpha Gene Mediates Rapid mRNA Turnover. **Endocrinology** 141/8, 2805-2813.
103. Flouriot, G., Brand, H., Denger, S., Metivier, R., Kos, M., Reid, G., Sonntag-Buck, V. and Gannon, F. (2000) Identification of a new isoform of the human estrogen receptor-alpha (hER- α) that is encoded by distinct transcripts and which is able to repress hER- α activation function 1. **The EMBO Journal** 19, 4688-4700.
104. Kos, M., O'Brien, S., Flouriot, G., Gannon, F. (2000) Tissue-specific expression of multiple mRNA variants of the mouse estrogen receptor alpha gene. **FEBS Letters** 477, 15-20.
105. Griffin, C., Flouriot, G., Sharp, P., Greene, G. and Gannon, F. (2001) Distribution Analysis of the Two Chicken Estrogen Receptor-Alpha Isoforms and their Transcripts in the Hypothalamus and Anterior Pituitary Gland. **Biology of Reproduction** 65, 1156-1163.
106. Denger, S., Reid, G., Brand, H., Kos, M. and Gannon, F. (2001) Tissue specific expression of human ER α and Er β in the male. **Molecular and Cellular Endocrinology** 178, 155-160.
107. Denger, S., Reid, G., Kos, M., Flouriot, G., Parsch, D., Brand, H., Korach, K.S., Sonntag-Buck, V., and Gannon F. (2001) ER α Gene Expression in Human Primary Osteoblasts: Evidence for the Expression of Two Receptor Proteins. **Molecular Endocrinology** 15(12), 2064-2077.
108. Kos, M., Reid, G., Denger, S., Gannon, F. (2001) Minireview: Genomic Organization of the Human ER α Gene Promoter Region. **Molecular Endocrinology**, 15(12):2057-2063.

109. Stenson-Cox, C., McNair, A., Curley, M., Smith, T. and Gannon, F. (2002) A role for HNF-3 in the regulation of the HNF-1 gene of the Atlantic salmon. **Mol. Genet. Genomics**. 266(5):832-837.
110. Reid, G., Denger, S., Kos, M. and Gannon, F. (2002) Human estrogen receptor- α : regulation by synthesis, modification and degradation. **Cell Mol. Life Sci**. 59:821-831.
111. Métivier, R., Gay, F.A., Hübner, M.R., Flouriot, G., Salbert, G., Gannon, F., Kah, O. and Pakdel, F. (2002) Formation of a hER α /COUP-TFI complex enhances hER α AF-1 through Serine 118 phosphorylation by MAPK. **The EMBO J**. 21:3443-3453.
112. Flouriot, G., Brand, H., Seraphin, B. and Gannon, F. (2002) Natural Trans spliced mRNAs Are Generated from the Human Estrogen Receptor- α (hER α) Gene. **J. Biol Chem**. 277(29):26244-26251.
113. Kos, M., Denger, S., Reid, G. and Gannon, F. (2002) Upstream open reading frames regulate the translation of the multiple mRNAs of the Estrogen receptor- α . **J. Biol. Chem**. 277: 37131-37138.
114. Kos, M., Denger, S., Reid, G. and Gannon, F. (2002) Down but not out? A novel protein isoform of the Estrogen receptor- α is expressed in the Estrogen receptor- α knockout mouse. **J. Mol. Endocrinol**. 2002 3: 281-286.
115. Brand, H, Kos, M., Denger, S., Flouriot, G., Gromoll, J., Gannon, F. and Reid, G. (2002) A Novel promoter is involved in the expression of Estrogen receptor- α in human testis and epididymis. **Endocrinology** 143: 3397-3404.
116. *Metivier, R., Stark, A., Flouriot, G., Hübner, M.R., Brand, H., Penot, G., Manu, D., Denger, S., Reid, G., Russell, R., Kah, O., Pakdel, F. and Gannon, F. (2002) A dynamic structural Model for Estrogen receptor- α Activation by Ligands emphasizing the roles of interactions between distant A and E domains. **Molecular Cell** 10,1019-1032.
117. *Reid G., Hübner M.R., Metivier R., Brand H., Denger S., Manu D., Beaudouin J., Ellenberg J. & Gannon F. (2003) Cyclic, Proteasome-Mediated Turnover of Unliganded and Liganded ER α on Responsive Promoters is an Integral Feature of Estrogen Signaling **Molecular Cell** 11; 695–707.
118. Bourdeau V., Deschenes J., Metivier R., Nagai Y., Nguyen D., Bretschneider N., Hudson T.J., Gannon F., White J.H. & Mader S. Genome-wide Identification of High Affinity Estrogen Response Elements in Human and Mouse. **Molecular Endocrinol**. 2004 Jun; 18(6), 1411 – 27.
119. *Metivier R., Penot G., Hübner M.R., Reid G., Brand H., Kos M. & Gannon F. (2003) Estrogen Receptor- α directs ordered, cyclical and combinatorial recruitment of cofactors on a natural target promoter. **Cell** 115, 751 – 763.
120. Merot Y., Metivier R., Penot G., Manu D., Saligaut C., Gannon F., Pakdel F., Kah. and Flouriot G. (2004) The relative contribution exerted by AF-1 and AF-2

transactivation functions in estrogen receptor alpha transcriptional activity depends upon the differentiation stage of the cell. **J Biol. Chem.** 279(25), 26184-26191.

121. *Metivier R., Penot G., Carmouche R.P., Hubner M.R., Reid G., Denger S., Manu D., Brand H., Kos M., Benes V. & Gannon F. Transcriptional complexes engaged by apo-estrogen receptor-alpha isoforms have divergent outcomes. **The EMBO Journal**, 2004 23(18), 3653 – 66.
122. Reid G., Metivier R., Chin-Yo Lin, Denger S., Ibberson D., Ivacevic T., Brand H., Benes V., Liu Edison T. & Gannon F. (2005) Multiple mechanisms induce transcriptional silencing of a subset of genes, including estrogen receptor alpha, in response to deacetylase inhibition by valproic acid and trichostatin A. **Oncogene** 24(31), 4894-4907.
123. Metivier R, Reid G, Gannon F. (2006) Transcription in four dimensions: nuclear receptor-directed initiation of gene expression. **EMBO Reports** 7(2):161-167.
124. Polycarpou-Schwarz M, Muller K, Denger S, Riddell A, Lewis J, Gannon F, Reid G. (2007) Thanatop: a novel 5-nitrofurane that is a highly active, cell-permeable inhibitor of topoisomerase II. **Cancer Research** 67(9):4451-4458.
125. Gannon F. (2007) Barriers to translation of research. **Molecular Oncology** 1: 244-245.
126. Denger S, Bähr-Ivacevic T, Brand H, Reid G, Blake J, Seifert M, Lin C-Y, May K, Benes V, Liu ET, Gannon F. (2008) Transcriptome profiling of estrogen-regulated genes in human primary osteoblasts reveals an osteoblast specific regulation of the IGFBP4 gene. **Molecular Endocrinology** 22, 361-379.
127. Denger S, Reid G and Gannon F. (2008) Expression of the Estrogen Receptor during differentiation of human Osteoclasts. **Steroids** 73, 765-774.
128. *Kangaspeska S, Stride B, Métivier R, Polycarpou-Schwarz M, Ibberson D, Carmouche RP, Benes V, Gannon F and Reid G. (2008) Transient cyclical methylation of promoter DNA. **Nature** 452, 112-115.
129. Bretschneider N, Brand H, Miller N, Lowery AJ, Kerin MJ, Gannon F and Denger S. (2008) Estrogen induces repression of the breast cancer and salivary gland expression gene in an estrogen receptor α -dependent manner. **Cancer Research** 68, 106-114.
130. Métivier R, Gallais R, Tiffoche C, Le Péron C, Jurkowska RZ, Carmouche RP, Ibberson D, Barath P, Demay F, Reid G, Benes V, Jeltsch A, Gannon F & Salbert G. (2008) Cyclical DNA methylation of a transcriptionally active promoter. **Nature** 452, 45-50 [corrigendum Nature (2010) 463 7279]
131. Bretschneider, N., Kangaspeska, S., Seifert, M., Reid, G., Gannon F. and Denger, S. (2008) E2-mediated cathepsin D (CTSD) activation involves looping of distal enhancer elements. **Molecular Oncology** 2:182-190.

132. Altman RB, Bergman CM, Blake J, Blaschke C, Cohen A, Gannon F, Grivell L, Hahn U, Hersh W, Hirschman L, Jensen LJ, Krallinger M, Mons B, O'Donoghue SI, Peitsch MC, Rebholz-Schuhmann D, Shatkay H and Valencia A. (2008) Text mining for biology--the way forward: opinions from leading scientists. Text mining for biology--the way forward: opinions from leading scientists. **Genome Biology** 9 Suppl 2:S7.
133. Johnsen SA, Gungo C, Prenzel T, Riethdorf S, Riethdorf L, Taniguchi-Ishigaki N, Rau T, Tursun B, Furlow JD, Sauter G, Scheffner M, Pantel K, Gannon F, and Bach I. (2009) Regulation of Estrogen-Dependent Transcription by the LIMCofactors CLIM and RLIM in Breast Cancer. **Cancer Research** 69:128-136.
134. Pathiraja TN, Nayak S, Xi Y, Jiang S, Garee JP, Edwards DP, Lee AV, Chen J, Shea MJ, Santen RJ, **Gannon F**, Kangaspeska S, Jelinek J, Issa J-P.J, Richer JK, Elias A, Mcllroy M, Young LS, Davidson NE, Schiff R, Li W and Oesterreich S. (2014) Epigenetic Reprogramming of *HOXC10* in Endocrine-Resistant Breast Cancer. **Science Translational Medicine** 6:(229): 229ra41.
135. Baxter E, Windloch K, Gannon F and Lee JS (2014) Epigenetic regulation in cancer progression. **Cell & Bioscience** 4: 45.
136. Blake J, Polycarpou-Schwarz M, Charapitsa I, Denger S, Bretschneider N, Ibberson D, Carmouche R, Benes V, Seifert M, Gannon F. and Reid G. The methylome in mammalian cells predominately functions to direct transcriptional initiation. **Nucleic Acids Research** (in revision).
137. **Gannon F.** (2015) Who is to blame? **Frontiers in Psychology** *submitted*.

Book Chapters and Reviews

1. Gorski, J. and Gannon, F. (1976) Current models of steroid hormone action: A critique. *Annual Review of Physiology* 38, 425-450.
2. Gannon, F., Katzenellenbogen, B., Stancel, G. and Gorski, R. (1976) Estrogen-receptor movement to the nucleus: Discussion of a cytoplasmic exclusion hypothesis. In "The Molecular Biology of Hormone Action". ed. by John Papaconstantinou, Academic Press, 137-149.
3. Breathnach, R., Mandel, J.L., Gerlinger, P., Krust, A., Lemeur, M., Humphries, P., Cochet, M., Gannon, F. and Chambon, P. (1978) Structure and organization of the split ovalbumin gene. *Proc. Inter. Symp. on Genetic Engineering*, Elsevier North Holland, 77-88.
4. Chambon, P., Benoist, C., Breathnach, R., Cochet, M., Gannon, F., Gerlinger, P., Krust, A., LeMeur, M., LePennec, J.P., Mandel, J.L., O'Hare, K. and Perrin, F. (1979) Structural organization and expression of ovalbumin and related chicken genes. In: "From Gene to Protein: Information Transfer in Normal and Abnormal Cells", (Proc. 11th Miama Winter Symp.), Academic Press, 55-81.

5. Chambon, P., Perrin, F., O'Hare, K., Mandel, J.L., Lepennec, J.P., Lemeur, M., Krust, A., Heilig, R., Gerlinger, P., Gannon, F., Cocket, M., Breathnach, R. and Benoist, C. (1979) Structure and expression of ovalbumin and closely related chicken genes. Proc. ICN-UCLA Winter Symp. on "Eukaryotic Gene Regulation", Academic Press (New York), 259-279.
6. Pays, E., Delronche, M., Lheureux, M., Bloch, J., Gannon, F. and Steinert, M. (1980) Cloning and characterisation of cDNA sequences coding for two variant specific antigens of trypanosoma brucei brucei in "The Host-Invader interplay" (H. Van den Bossche ed.) Elsevier/North Holland Biomedical Press Amsterdam pp. 241-244.
7. Gannon, F. (1981) An A to Z of Biotechnology. Technology Ireland, 13, 27-30.
8. Gannon F. (1981) Why we must get on the biotechnology bandwagon: the New Biotechnology. Technology Ireland 12, 31-35.
9. Gannon, F. (1985) The input from Genetic engineering to Biotechnology. Royal Irish Academy Meeting Proceedings, 50-58.
10. Gannon, F., Jeltsch, J.M., Bloch, J., Krust, A., Garnier, J.M., Bornert, J.M. and Gilna, P. (1985) Characterization of the expression of conalbumin and ovalbumin sequences cloned into the PstI site of pBR322. Annals of New York Academy of Sciences (Engineering Foundation Conference, 1984), Vol. 469, pp. 18-30.
11. Gannon, F. (1985) The choice of host organisms for industrial genetic engineering use. In Therapeutic agents produced by genetic engineering: Quo Vadis? The example of growth hormone and its releasing factor, (Ed. A. Joyeaux, G. Leygue, M. Morre, R. Roncucci and P.H. Schmelck) Quo Vadis? Symposium, Sanofi Group, May 29-30, 1985, Toulouse-Labege, France, pp. 45-57.
12. Gannon, F. (1986) Transgenics. In Exploiting New Technologies in Animal Breeding Genetic Development. (Ed. R. Beatty), Oxford University Press, 43-58.
13. Brazil, D., Curley, D., Gannon, F. and Smith, P. (1986) Persistence and acquisition of antibiotic resistance plasmids in *Aeromonas salmonicida*. Banbury Report 24, Cold Spring Harbour Laboratory, pp. 107-114.
14. Powell, R. and Gannon, F. (1988) Leghaemoglobins. BioEssays. 9 117-121.
15. Gannon, F., Neilan, J. and Powell, R. (1988) "Too many books spoil the cooks". Nature. 333, 309-310 (Review).
16. Gannon, F. (1989) Steps towards the widespread use of DNA probes. Biotech 89, 239-246.
17. Gannon, F. (1990) The European Community Biotechnology Action Programme in Genetic Engineering for Animal Husbandry and Novel Methodologies of Animal Cell Culture. E.C. report on B.A.P. 627-630.

18. Barry, T. and Gannon, F. (1990) The Polymerase Chain Reaction. *Journal of Biomedical Science* 1, 8-17.
19. Gannon, F., Powell, R., Barry, T., Mc Evoy, T.G. and Sreenan, J.M. (1990) Transgenic farm animals. *Journal of Biotechnology* 16, 155-170.
20. Powell, R., Byrnes, L. and Gannon F. (1990) Transgenic Fish. *The Genetic Engineer and Biotechnologist* 10, 7-9.
21. Gannon, F. and Barry, T. (1990) DNA probes for microorganisms. In: *The Genetic Age*. Ed. Corporate Dynamics. 20-26.
22. Gannon, F. and Powell, R. (1991) Construction of recombinant DNA molecules. In *Essential Molecular Biology: A Practical Approach*. IRL Press. Ed. T.A.Brown 143-160.
23. Gannon, F. (1991) Novel Diagnostic Methods for the Detection of Infectious Disease. In: *Proceedings of the Royal Irish Academy Seminar; "Rapid methods in clinical and industrial microbiology"* Ed. B. Cantwell. 53-62.
24. Power, S. and Gannon, F. (1991) Transgenic Animals - their uses and applications. *The Genetic Engineer and Biotechnologist* 11, 18-19.
25. McEvoy, T. G., Gannon, F. and Sreenan, J.M. (1992) Gene Transfer in Fish: Potential and Practice. *Animal Biotechnology*, 3, 221-243.
26. Smith, T., Dawson, M., Forde, T. and Gannon, F. What's up Doc? (1992) *Technology Ireland*, September 92, 22-24.
27. Smith, T. and Gannon, F (1992) DNA Probes for the identification of microorganisms. In *Biotechnology International*, Century Press Publishers 57-61.
28. Wagner, A., Deryckere, F., Hardiman, G., Byrnes, L., and Gannon, F. (1993) The isolation and structure of liver and globin genes from Atlantic salmon. *Fundamental and Applied Research for Aquaculture*. American Geophysical Union, Eds. B. Lahlou and P. Vitiello, pp 255-273.
29. Smith, T., Dawson, M., Forde, T. and Gannon, F. (1993) New methods for the diagnosis of disease. *Technology Ireland*, 24, 22-24.
30. Byrnes, L., Enenkel, B., Gannon, F. and Smith, T. Preparation of DNA probes (1995) Chapter 2 in *Gene Probes: A practical approach*, Vol. 1 Eds. Higgins, S. and Hames, D. Oxford University Press Publishers, pp 17-55.
31. Smith, T., Maher, M., Gannon, F. and Dawson, T.M. (1995) Development of bacterial species-specific DNA probes based on ribosomal RNA genes using PCR. In *Diagnostic Bacteriology Protocols* (part of series of *Methods in Molecular Biology*) Ed Walker, J. Humana Press. Inc. Publishers. 46, 247-256.

Curriculum Vitae – Professor Frank Gannon

32. Gannon, F., Hanley, and Murphy, M. (1995) PCR 2. A Practical Approach. Eds MH McPherson, BD Hames and GR Taylor, Oxford University Press, Oxford. Vol 388, 85.
33. Gannon, F., Norman, J., Kriis, M., Walter, A. & Breimer, L. (1997) EMBO fellows go home. *Nature*, 388, 416.
34. Gannon, F., (1998) Reaping the benefits of basic research. *Nature*, 392, 752.
35. Pope, C., Flouriot, G., Kenealy, M.-R., Nestor, P., Gannon, F. (1998) The control of expression of chicken and human estrogen receptor genes. *Ann N.Y. Acad. Sci.* 839, 133-137.
36. Gannon, F., Sonntag-Buck, V., O'Brien, S. and Flouriot, G. (1998) Gene V; *FEBS Letters* 434, 445.
37. Gannon, F. (2005) Open access: scientists as paradoxical consumers. *Learned Publishing*, 18, 295-299.
38. Gannon, F., Metivier, R., Denger, S. and Reid, G. (2005) The estrogen Receptor as a transcription factor **FASEB J.** 19(4): A249 Suppl.
39. Steven A Johnsen, Sara Kangaspeska, George Reid and Frank Gannon (2006) Interfering with the Dynamics of Estrogen Receptor Regulated Transcription. **Ernst Schering Found.Symp Proc**, 1: 1-12.
40. Gannon, F., Metivier, R., Reid, G., Denger, S., and Kangaspeska, S. (2006) Chromatin remodelling **Endocrine Abstracts** 11 S59.
41. F Gannon. How I Became a Biochemist ... And What Happened Next. *IUBMB Life* (2007) 59, 113-7.
42. R. Metivier, Guillaume Huet, Rozen Gallais, Laurence Finot, Fabien Petit, Christophe Tiffoche, Yohan Merot, Christine LePeron, George Reid, Graziella Penot, Florence Demay, Frank Gannon, Gilles Flouriot and Gilles Salbert. (2008) Dynamics of ER-mediated Transcriptional Activation of Responsive Genes *In vivo*: Apprehending Transcription in Four Dimensions. **Hormonal Carcinogenesis V. Advances in Experimental Medicine and Biology** 617:129-138.
43. Casciello F, Windloch K, Gannon F and Lee JS. (2015) Functional role of G9a histone methyltransferase in cancer. **Frontiers in Immunology** doi: 10.3389/fimmu.2015.00487.

Patents

Method for the Separation of Nucleic Acids from Protein Material Based on Cation Exchangers. T. Fotsis, F. Gannon, C.E. Murphy.
Patent Application 3226/88

Generation of probes for unknown target nucleotide sequences and the use thereof in diagnostic assays. F. Gannon, T.G. Barry, BioResearch Ireland, R. Powell, U.C.G. Patent application 1287/89. (Granted)

Short Open Reading Frames in the 5' end of Transcripts and Their Application to Diagnostic Assays. M.T. Dawson, R.C. Forde, B.F.X. Gannon, M. Keaveney, and P.V. Nestor. Bio Research and U.C.G. Patent application: 2666/90

Probe for *Aeromonas salmonicida* and the use thereof in methods of detecting or determining the organism. Forfás (trading as BioResearch Ireland), F. Gannon, Richard Powell and University College Galway. Patent Application No. 4205/91.

Probe for *Aeromonas salmonicida* and the use thereof in methods of detecting or determining the organism". Forfás (trading as BioResearch Ireland), UCG, F. Gannon, R. Powell. European Patent Application No. 92924848.2-(EP-A 0 618 982)

Strong Homologous Promoter Obtained from Hamsters
Inventors: Barbara Enenkel, Frank Gannon, Klaus Bergemann; Wolfgang Noe,
U.S. Patent No. 6,063,598 (2000)
Date of Patent: May 16, 2000

Antagonists of topoisomerase activity and their use in inhibiting pathological conditions. Inventors: George Reid and Frank Gannon. European patent filled on 23/09/05, application number 05020794.3 and US patent filled on 30/09/05, application number 60/722,551

Novel tubulin polymerization inhibitors.
Inventors: George Reid and Frank Gannon
European patent filled on 21/03/06 Patent number PCT/EP2006/002604

Inhibitors of Cell Proliferation and uses thereof
Inventors: George Reid, Maria Polycarpou-Schwartz and Frank Gannon
Patent applied for Feb 2008

Editorials

1. A new journal in more than one way. EMBO Reports vol. 1 / no. 1 / 2000
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6. The secret ways of scientists. EMBO Reports vol. 1 / no. 6 / 2000

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13. The stock market and science policy. EMBO Reports vol. 2 / no. 10 / 2001
14. September 11 and Science. EMBO Reports vol. 2 / no. 11 / 2001
15. Searching for discrimination. Are women treated fairly in the EMBO postdoctoral fellowship scheme. EMBO Reports vol. 2 / no. 8 / 2001
16. New Framework Programme goes more bottom-up? First details of the sixth Framework Programme: towards networks of excellence. EMBO Reports vol. 5 / no. 8 / 2001
17. Profession scientist. EMBO Reports vol. 3 / no. 1 / 2002
18. Molecular biology – what's in a name? EMBO Reports vol. 3 / no. 2 / 2002
19. Surprises in European science policy. EMBO Reports vol. 3 / no. 3 / 2002
20. Understanding Life – now for the hard part! EMBO Reports vol. 3 / no. 4 / 2002
21. An NIH/NSF for Europe? EMBO Reports vol. 3 / no. 6 / 2002
22. Animals on the menu. EMBO Reports vol. 3 / no. 7 / 2002
23. Who pays the piper... EMBO Reports vol. 3 / no. 8 / 2002
24. Learning from ENRON. EMBO Reports vol. 3 / no.9 / 2002
25. Do the maths. EMBO Reports vol. 3 / no.10 / 2002
26. The foot soldiers of science. EMBO Reports vol. 3 / no.11 / 2002
27. The Max Factor. EMBO Reports vol. 3 / no.12 / 2002
28. Educate or communicate. EMBO Reports vol. 4 / no.1 / 2003
29. Can research be planned? EMBO Reports vol. 4 / no.2 / 2003
30. A Faustian bargain for universities? EMBO Reports vol. 4 / no.3 / 2003

31. The European Research Council: where are we now? EMBO Reports vol. 4 / no.5 / 2003
32. Patriotism and Publication. EMBO Reports vol. 4 / no.6 / 2003
33. Competition: our constant companion. EMBO Reports vol. 4 / no. 7 / 2003
34. Molecular Medicine: trendy title or new reality? EMBO Reports vol. 4 / no. 8 / 2003
35. Nano – nonsense. EMBO Reports vol. 4 / no. 11 / 2003
36. Goal oriented Research. EMBO Reports vol. 4 / no. 12 / 2003
37. Government rhetoric and their R&D expenditure. A score-card for governments' investments into science and future technologies. EMBO Reports vol. 4 / no. 2 / 2003
38. Ethical profits from publishing. EMBO Reports vol. 5 / no. 1 / 2004
39. Global approaches for a healthy world. EMBO Reports vol. 5 / no. 2 / 2004
40. Time's up: your career's over. EMBO Reports vol. 5 / no. 3 / 2004
41. Elitism and egalitarianism. EMBO Reports vol. 5 / no. 4 / 2004
42. Oliver Twist and Santa Claus. EMBO Reports vol. 5 / no. 5 / 2004
43. Thoughts for the new Europe. EMBO Reports vol. 5 / no. 6 / 2004
44. Naming disease proteins. EMBO Reports vol. 5 / no. 7 / 2004
45. Then and now. EMBO Reports vol. 5 / no. 8 / 2004
46. Open access and closed options. EMBO Reports vol. 5 / no. 10 / 2004
47. Lost in translation. EMBO Reports vol. 5 / no. 11 / 2004
48. Experts, truth and skepticism. EMBO Reports vol. 5 / no. 12 / 2004
49. Degrees of Risk. EMBO Reports vol. 5 / Special Issue / 2004
50. SARS, Mars and chocolate bars. EMBO Reports vol. 6 / no 1 / 2005
51. Time for tenure track in Europe. EMBO Reports vol. 6 / no 2 / 2005
52. Insights from interviews. EMBO Reports vol. 6 / no 3 / 2005
53. Welcome to Molecular Systems Biology. EMBO Reports vol. 6 / no 4 / 2005
54. Is the system dumbing down research? EMBO Reports vol. 6 / no 5 / 2005

55. Biotech, the environment and the three Ps. EMBO Reports vol. 6 / no 6 / 2005
56. Scientists: ignored gold. EMBO reports vol. 6 / no 7/ 2005
57. Where's the beef? EMBO reports vol. 6 / no 8/ 2005
58. Pummelled by paperwork. EMBO reports vol. 6 / no 9/ 2005
59. Cycles. EMBO reports vol. 6 / no 10/ 2005
60. Family matters. EMBO reports vol. 6 / no 11 / 2005
61. Multidisciplinarity: by fiat or need? EMBO reports vol. 6 / no 12 / 2005
62. Meeting standards. EMBO reports vol. 7 / no 1 / 2006
63. Security and biology: scientists beware! EMBO reports 2006 Feb: 7(2):121
64. From inhibitor to drug: mind the gap! EMBO reports 2006 Mar:7(3):237
65. Life science infrastructures are different. EMBO reports 2006 Apr:7(4):347
66. Wanted: a strategy for European Science. EMBO reports 2006 May:7(5):457
67. Science for society. EMBO reports 2006 Jun:7(6):561
68. A European institute of technology? EMBO reports 2006 Jul:7(7):655
69. Blind faith in pills and potions. EMBO reports 2006 Aug:7(8):747
70. Decisions, decisions. EMBO reports 2006 Oct:7(10):953
71. What is a PhD? EMBO reports 2006 Nov:7(11):1061
72. Mentors, influences and role models. EMBO reports 2006 Dec:7(12):1183
73. Graduation Day. EMBO Reports 2006 vol. 7 / no 9 / 2006
74. Fraud in our laboratories? EMBO reports 2007 Jan:8(1):1
75. Two sides to the story. EMBO reports 2007 Feb 8(2):111
76. The downsides of mobility. EMBO reports 2007 March 8(3):201
77. Motivation. EMBO reports 2007 April 8(4):301
78. Address bias. EMBO reports 2007 May 8(5):421
79. Market economy for scientists. EMBO reports 2007 June 8(6):517
80. Pinnacles or plateaus? EMBO reports 2007 July 8(7):611

81. Too complex to comprehend? EMBO reports 2007 August 8(8):705
82. Jack-of-all-trades. EMBO reports 2007 September 8(9):791
83. Conformists. EMBO reports 2007 October 8(10):885
84. The women issue. EMBO reports 2007 November 8(11):975
85. Hope, hype and hypocrisy. EMBO reports 2007 December 8(12):1087
86. A persistent problem. Traditional gender roles hold back female scientists. EMBO Reports 2007 vol. 8 / no 11 / 2007
87. Animal rights, human wrongs? Introduction to the Talking Point on the use of animals in scientific research. EMBO Reports 2007 vol. 8 / no 6 / 2007
88. The pipeline. EMBO reports 2008 January 1, 1
89. The end of optimism? EMBO reports 2008 February 2, 111
90. Language barriers. EMBO reports 2008 March, 3, 207
91. Measuring success. EMBO reports 2008 April, 4, 301
92. Paralysed by perfection. EMBO reports 2008 May, 5, 401
93. Variations on complexity. EMBO reports 2008 June, 6, 439
94. Different perspectives. EMBO reports 2008 July, 7, 591
95. Familiar faces. EMBO reports 2008 August, 8, 699
96. The missing link. EMBO reports 2008 September, 9, 819
97. Bullies. EMBO reports 2008 October, 10, 937
98. Energy and biologists. EMBO reports 2008 November, 11, 194
99. Burnout. EMBO reports 2008 December, 12, 1157
100. A letter to Darwin. EMBO reports 2009 January, 1, 1
101. Convergence. EMBO reports 2009 February, 2, 103
102. On our watch. EMBO reports 2009 March, 3, 193
103. Goodbye. EMBO reports 2009 April, 4, 293
104. The steps from translatable to translational research. EMBO reports 2014, Vol 15, 1107-1108.

105. The connection between medical research and business. AusBiotech Journal, October 2014.
106. Lip sync conferences. EMBO Reports 2015, September 1, 1051.

Books

Dawson, M., Powell, R. and Gannon, F. (1996) "Gene Technology". Published by BIOS, Scientific Publishers Ltd. Oxford, UK.

Gannon, F. (2013) "Ethics and the Researcher" in *Ethics for Graduate Researchers. A Cross-disciplinary Approach*. pp39-50. Editors: Cathriona Russell & Maureen Junker-Kenny. Published by Elsevier.