

Tyrone Bowes Ph.D.

PERSONAL INFORMATION

D.O.B: 09/08/1974.

Marital status: Married with 3 children.

Place of birth: Dublin, Ireland.

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EDUCATION

1999-2003; Glasgow Caledonian University: Awarded Ph.D. (Neuroimmunology)

1995-1998; Paisley University: Awarded a BSc (Hons) 1st Class (Biotechnology), Court medal.

1993-1995; Kevin St. Dublin Institute of Technology: Technicians Diploma in Applied Science with Distinction.

EMPLOYMENT HISTORY

2010-Present: Professional Genetic Genealogist

- Founder of Irish Origenes: www.irishorigenes.com
- Founder of Scottish Origenes: www.scottishorigenes.com
- Founder of English Origenes: www.englishorigenes.com
- Proprietor of the domain addresses www.welshorigenes.com, www.frenchorigenes.com, www.spanishorigenes.com, www.italianorigenes.com, www.germanicorigenes.com
- I own the copyright for a TV series 'Origenes' which would use the results of a simple commercial ancestral Y-DNA test to pinpoint ones 'paternal ancestral genetic homeland' or the precise area where ones direct male ancestor lived when paternally inherited surnames became common (about 1000 years ago in Ireland).

2004-2010: Senior Scientist, NUIG, Ireland.

2002-2004: Postdoctoral Researcher at the Wellcome Trust Biocentre, Dundee, Scotland.

1999-2002: PhD studentship *Investigating the Role of Anti-Ganglioside Antibodies in the Pathophysiology of Auto-immune Neuropathies* at Glasgow Caledonian University.

1997-1998: Research Assistant at the Hannah Research Institute, Ayr, Scotland.

1996-1997: Research Assistant at the GlaxoSmithkline research facility, Verona, Italy.

PRESENTATIONS

- 23rd Oct 2013: 'DNA and Genetic Genealogy' Carrickmacross, Monaghan, Ireland.
- 20th Oct 2013: 'Pinpointing Your Irish origin Using Commercial Ancestral DNA testing' **on behalf of Family Tree DNA** at the Back To Our Past exhibition in Dublin City, Ireland ([link to blog post and recorded presentation](#)).
- 17th Oct 2013: 'DNA and Genetic Genealogy' Monaghan Town, Ireland.
- 1st Oct 2013: 'Pinpointing a Precise Ancestral Origin Using Commercial Ancestral DNA Testing,' at the 'Flesh and Blood, Genetics meets Genealogy' event organised by Biotechnology Ireland, in Dublin, Ireland ([link to presentation blog post and presentation slides](#)).
- 25th August 2013: 'How Commercial DNA Testing can Pinpoint Your Irish Origin,' at Athenry Castle, Athenry Town, Ireland.

Curriculum Vitae

- 10th August 2013: 'How commercial DNA testing can pinpoint your Irish Origin' (Gael, Viking, Norman, Gallowglass or Planter?), Galway City Museum, Galway, Ireland.
- Feb 2013: 'History, Genes, and Geography, Pinpointing an Geographical Origin,' **On behalf of FTDNA** at the Who Do You Think You Are LIVE exhibition London, UK ([link to blog post and presentation slides](#)).
- Nov 2012: 2 day workshop on 'How to use Commercial DNA Testing to Pinpoint Your Irish (day 1) or Scottish (day 2) Origin, McClelland Irish Library, Phoenix, Arizona, USA.
- Feb 2013: 'Reoccurring Surname Matches from a Family Tree Y-DNA test can Pinpoint a Genetic Homeland,' **on behalf of FTDNA** at the 8th Annual Genetic Genealogy Conference in Houston, Texas, USA ([link to blog post and presentation slides](#)).

PUBLICATIONS (GENEALOGICAL MAGAZINES and eJournals)

Oct 2013: 'What Can Your Genes Tell About You' in Family History at your Fingertips a Magazine-Book published by **Family Tree Magazine**.

July 2013: 'Clan MacKenzies Norman Irish Roots as Revealed by Commercial DNA Testing,' **Family Chronicle Magazine**.

March 2012: 'Using Your DNA to Pinpoint Your Irish Genetic Homeland,' **Irish Roots Magazine**. Issue 102. ([article accessible here](#))

Sept 2012: 'The Gallowglass, Do You Belong to a Warrior Clan,' **Celtic Guide eMagazine** ([article accessible here](#)).

July 2012: 'The Castles of Kilkenny,' **Irish Lives Remembered eMagazine** ([article accessible here](#)),

May 2012 'The Hand Y-DNA Case Study' featured in the **Irish-American Society of New Mexico Newsletter**.

March 2012: 'DNA and Genealogy Working Together,' **Irish Roots Magazine**, Issue 93.

PUBLICATIONS (SCIENTIFIC)

Using Y Chromosome DNA Testing to Pinpoint a Genetic Homeland. *Bowes, T.* Surname DNA Journal. 2013 ([link to blog post and paper](#)).

Developing Cell-Specific Antibodies to Endothelial Progenitor Cells Using Avian Immune Phage Display Technology. *Bowes T. et al. Journal of Biomolecular Screening 2011 Aug;16(7):744-54. Epub 2011 May 18.*

Characterisation of the immunoglobulin variable region gene usage encoding the murine anti-ganglioside antibody repertoire. *Boffey J, Odaka M, Nicoll D, Wagner ER, Townson K, Bowes T, Conner J, Furukawa K, Willison HJ. J Neuroimmunol. 2005 Aug;165(1-2):92-103.*

Overexpression of GD1a ganglioside sensitizes motor nerve terminals to anti-GD1a antibody-mediated injury in a model of acute motor axonal neuropathy. *Goodfellow JA, Bowes T, Sheikh K, Odaka M, Halstead SK, Humphreys PD, Wagner ER, Yuki N, Furukawa K, Furukawa K, Plomp JJ, Willison HJ. J Neurosci. 2005 Feb 16;25(7):1620-8.*

Tolerance to self gangliosides is the major factor restricting the antibody response to lipopolysaccharide core oligosaccharides in *Campylobacter jejuni* strains associated with Guillain-Barre syndrome. *Bowes T, Wagner ER, Boffey J, Nicholl D, Cochrane L, Benboubetra M, Conner J, Furukawa K, Furukawa K, Willison HJ. Infect Immun. 2002 Sep;70(9):5008-18.*

Manuscripts either ready for publication or currently in submission

TMSC3 - a Novel Recombinant Avian Antibody Identifies the Primary Cilium as a Marker for Quiescent Mesenchymal Stem Cells in Bone Marrow. (PLOS). *Bowes T, Greiser U, Finlay W. J, Eglon M, O'Kennedy M, Barry F, O'Brien T.*

Curriculum Vitae

PATENT

Irish patent application no. 2007/0170 and PCT/EP2008/052959 - Markers, Antibodies and Recombinant scFv's for Adult Mesenchymal Stem Cells. Inventors - *Tyrone Bowes, Udo Greiser, William Finlay, Timothy O'Brien, Frank Barry.*

CONFERENCE ABSTRACTS (Academic)

5th annual meeting of the Irish Cytometry Society (ICyS), November 2009. Using Chicken Immune Phage Display Technology to Generate Stem Cell-Specific Monoclonal Antibodies for Flow Cytometry. *Bowes T, Greiser U, Finlay W. J, Eglon M, O'Kennedy M, Barry F, O'Brien T.*

"Awarded SEBM 1st European Best Poster Prize" at the Annual Meeting of the International Society for Cell & Gene Therapy of Cancer (ISCGT), October 2009, Cork, Ireland". Awarded Honorary membership of SEBM.

<http://www.medicalnewstoday.com/releases/167796.php>

Cell Specific Antibodies Generated Using Chicken Immune Phage Display, their Role in Regenerative Medicine and as Potential Therapeutics in Metastasis. *Bowes T, Greiser U, Finlay W. J, Eglon M, O'Kennedy M, Barry F, O'Brien T.*

Symposium on Cancer Chemistry: Synthesis and Biology Galway, July 2009. Targeted Destruction of Quiescent Stromal Cells and Pre-Osteoclasts in the Bone Metastatic Niche using Antibodies Targeting the Primary Cilium and produced using Chicken Immune Phage Display Technology. *Bowes T, Greiser U, Finlay W. J, Eglon M, O'Kennedy M, Barry F, O'Brien T.*

Biomarkers Europe, November 2008, Vienna, Austria. The Use of Chicken Immune Phage Display Libraries in Overcoming Immune Tolerance and Generating Antibodies with High Affinity and Specificity for Stem Cells. *Bowes T, Greiser U, Finlay W. J, Eglon M, O'Kennedy M, Barry F, O'Brien T.*

International Society for Cellular Therapy (ISCT), 2007, Sydney, Australia. Detailed Flow Cytometric Analysis of Early Endothelial Progenitor Cells Demonstrates their Heterogeneous Composition. *Bowes T, Greiser U, Barry F, O'Brien T.*

International Society for Stem Cell Research (ISSCR), 2007 Cairns, Australia. Identification of Novel Adult Stem Cell Surface Markers Utilizing Antibody Phage Display Technology. *Bowes T, Greiser U, Finlay W. J, Eglon M, O'Kennedy M, Barry F, O'Brien T.*

GRANTS AWARDED

Enterprise Ireland Commercialisation fund September 2006: IDSTEM: Development of a stem cell specific antibody platform. Dr Udo Greiser and Dr Tyrone Bowes; €430,154.00 over 2 years.