

## Prof. Catherine Stanton

H Index – 86 (Web of Science Core Collection, 31,308 Citations), – 115 (Google Scholar, 54692 citations)

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### Education

2009	DSc National University of Ireland
1988	PhD Biochemistry, Bournemouth University, UK
1986	MSc Nutrition, University College Cork, IRELAND
1983	BSc Nutrition & Food Chemistry (2.1H), University College Cork, IRELAND

### Career Profile (Employment)

2018 - date	Senior Principal Research Officer (SPRO), Teagasc Moorepark. Fermoy, Co. Cork, IRELAND
2016 - date:	Research Professor, College of Medicine and Health, University College Cork, IRELAND
2003 - date:	Principal Investigator, APC Microbiome Institute, UCC, IRELAND
2002 - date:	Principal Research Officer (PRO), Teagasc, Moorepark Food Research Centre, IRELAND
2012 - 2016:	Adjunct Professor, College of Medicine and Health, UCC, IRELAND
1994 - 2002:	Senior Research Officer (SRO), Teagasc, Moorepark Food Research Centre, IRELAND
1994 - 2002:	Research Officer (RO), Teagasc, Moorepark Food Research Centre, IRELAND
1992 - 1994:	Research Associate, Wake Forest University Medical Centre, NC, USA
1990 - 1992:	Postdoctoral Fellow, Dept. Medicine, Wake Forest University Medical Centre, NC, USA
1989 - 1990:	Senior Research Scientist, Johnson & Johnson UK, Glasgow, Scotland

Research Interests:

### Food and Health Research

- Probiotics, human nutrition and health.
- Milk and fermented dairy foods,
- Functional foods,
- Human Microbiome: influence of dietary and environmental factors on infant gut microbiota.

### History of Mentoring and Supervision:

Current PhD	Current MSc	Current Post-doctoral staff	Previous PhD	Previous MSc	Previous Post-doctoral staff
13	0	8	47	20	15

### Details of Most Relevant Research Funding as Lead/Co-Applicant (direct costs only):

Currently participating in research projects worth €97,367,102 of which €13,445,217 is allocated to CStanton as Principal Investigator.

### Patents Filed/Granted:

- Probiotic Composition Suitable for Animals. W02006114778 (2005)
- Conjugated linoleic acid isomerase and a process for the production of conjugated linoleic acid WO2002101056 (2001)
- Process for the manufacture of probiotic cheese. WO1999062348 (1998)
- Process for the production of trans-10 Cis 12 octadecadienoic acid. WO2007074010 (2005)
- Casein-derived antimicrobial peptides and lactobacillus strains that produce them. WO2007057872 (2005)
- Angiotensin-I-Converting Enzyme Inhibitory. W02007096855 (2006)
- Antimicrobial Peptides and Bacterial Strains that produce them. US 20090214498 (2007)
- Modulation of tissue fatty acid composition of a host by human gut bacteria W02009043856 (2007)
- GABA-producing culturable bacteria derived from the human gastrointestinal tract. EP12151768.4 (2012)
- Exopolysaccharide-producing bacteria, and uses thereof for protecting heart health. PCT Application number PCT/EP2013/068119
- Polybiotic B longum, filed 2017
- A novel antimicrobial peptide 'Actifensin' produced by *Actinomyces rumenicola* DPC7226.

- Lantibiotics and lantibiotic-producing bacteria [PCT/EP2020/055623]
- Methods And Compositions Using Combinations of *Lactobacillus mucosae* and soluble dietary fiber (2021).

#### Licences/Options/Assignments

- Alimentary Health Ltd (for W02009043856)
- Dupont: GABA-producing culturable bacteria

#### Awards/Honours:

- 2020** American Dairy Science Association (ADSA) Distinguished Service Award.
- 2020** Highly cited researcher recognised by *Web of Science* by *Clarivate Analytics*, ranking in the top 1% by citations in the field of Agricultural Science (2017, 2018, 2019 and 2020).
- 2019** Scientist of the Year, The Irish Laboratory Awards, March 2019.
- 2019** Elected member, Royal Irish Academy
- 2018** Irish Laboratory Awards: Academic or Research Laboratory of the Year Award, April 2018
- 2018** Irish Laboratory Awards: Healthcare Laboratory of the Year Award, April, 2018
- 2018** External Expert Award, International Joint Center on Probiotics & Gut Health, Jiangnan University, Wuxi, China, Oct 29<sup>th</sup>, 2018.
- 2017** Scientist of the Year, The Irish Laboratory Awards, May, 2017
- 2017** Healthcare Laboratory of the Year Award winner, The Irish Laboratory Awards May, 2017.
- 2012** UCC Research COMMERCIALISATION Award, 27th March, 2012
- 2011** APC Scientist of the Year 2011
- 2010** ELIE METCHKNOFF Award 2010 joint recipient with Paul Ross, Colin Hill, Gerald Fitzgerald for research on the application of Lactic Acid Bacteria in fermented dairy products to improve health

#### Professional Membership:

- Member (and Rapporteur) of Joint FAO/WHO Expert Consultation on Evaluation of Health and Nutritional Properties of Probiotics in Food, Córdoba, Argentina, 1-4 October 2001.
- Member (and Rapporteur) of Working Group convened by FAO/WHO to develop Guidelines for the Evaluation of Probiotics in Food, Canada, April 30 and May 1, 2002, and /IDF/ISO (2004-2006)
- Member of Utrecht Group (Dairy Nutrition) Dutch Dairy Foundation since 1997
- Member of Group for Advice on Novel food to Food Safety Authority of Ireland (2012-2015)
- Member of Steering Group on behalf of the Expert Group on Future Skills Needs (Forfas), 2002
- Member (and Facilitator) of European Technology Platform (ETP) WG Food Quality & Manufacturing Working Group (2005-2013)
- Member of TEAGASC FORESIGHT 2030 Working Group (2007/2008)
- Member ILSI Expert Group on Beneficial Aspects of Food Processing (2008-2010)
- Member IDF Standing Committee Nutrition and Health (1998-date)
- Member Agropolis Fondation Science Council, France (2011-2016)
- Member American Society for Biochemistry and Molecular Biology (ASBMB)
- Member American Oil Chemists Society (AOCS)
- Member of American Dairy Science Association (ADSA)
- Member of Scientific Advisory Panel Member for the MBIE programme "Accelerated Evolution: a step change in food fermentation", AgResearch New Zealand 2018-date)
- Member of the Royal Irish Academy Selection Committee
- Member of the Scientific Advisory Board of the Joint Programming Initiative "a Healthy Diet for a Healthy Life" (JPI HDHL). 2018/2019

#### Academic output:

- Published 495 peer-reviewed original research and review articles in the areas of probiotics, nutritional aspects of dairy foods, infant gut microbiota and bioactive lipids (see below). These publications have accumulated 31,308 citations since first publication in 1987 and H-index of 86 (Source; Web of Science Core Collection)/ 115(Source; Google Scholar).
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