

## CURRICULUM VITAE PROFESSOR IAN S. YOUNG

**Name** Ian Stuart Young  
**Current position:** Professor of Medicine and Director of the Centre for Public Health,  
Queen's University Belfast  
Associate Medical Director (Research and Development), and Consultant  
Chemical Pathologist, Belfast Health and Social Care Trust

**Address** The Centre for Public Health  
First Floor, Institute of Clinical Science B Block,  
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Northern Ireland

**Year of Birth** XXXXXXXXXX

**Medical Education** Queen's University, Belfast 1979-85  
**Qualifications** BSc with first class honours in Biochemistry 1982  
MB, BCh, BAO with honours 1985  
MRCP (UK) 1988  
MRCPATH 1992  
MD 1994  
FRCP (London) 1998  
FRCPATH 2001

### Current Appointment

January 2001 – present: Professor of Medicine, Queen's University Belfast  
July 2008 – present: Director of the Centre for Public Health, Queen's University Belfast  
June 2007 – present: Associate Medical Director, Research and Development. Belfast Health and Social  
Care Trust  
October 1993 – present: Consultant in Clinical Biochemistry, Royal Group of Hospitals, Belfast

### Previous Appointments

Jan 1999 – Dec 2000 -Professor of Medical Biochemistry, The Queen's University of Belfast and  
Consultant in Clinical Biochemistry, Royal Group of Hospitals

October 1993-Jan 1999 -Senior Lecturer in Clinical Biochemistry, The Queen's University of Belfast and  
Consultant in Clinical Biochemistry, Royal Group of Hospitals

### Scholarships, Prizes and Awards

1979 Queen's University Entrance Examination  
-David Russell Lappin Scholarship (top overall entrant to University)  
-Sullivan Scholarship (top male entrant to University)

1980 Second MB  
-Milroy medal for physiology and biochemistry  
-RH Hunter prize (human and comparative embryology)  
-Second medical scholarship (first place overall in year)

1981 Intercalated BSc -Foundation scholarship

1983 Third MB  
-Whitla medal and prize (Therapeutics and Pharmacology)  
-Musgrave prize (pathology)  
-Upjohn prize (practical pathology)  
-Foundation scholarship (first place overall in year)

- 1983 -TSB Travel scholarship to visit Edmonton, Canada
- 1984 -Dr Kenneth Norman Lavelle prize (geriatric medicine)
- 1985 -Magrath Clinical scholarship (surgery)
- 1985 -Magrath Clinical scholarship (medicine and clinical pathology)  
Final MB
- 1985 -Sinclair medal (surgery)  
-Final MB prize (first place overall in year)
- 1990 - Free Radical Research Society award to attend 35th Harden Conference
- 1992 - Association of Clinical Biochemists award to attend the VI Biennial meeting of the International Society for Free Radical Research
- 1993 - JD Williamson prize of the Queen's University of Belfast for published research (on the role of oxidative stress in diabetes mellitus)
- 1994 - Fournier Lipidology Research Award (UK based research into lipid metabolism)
- 1998 - The Professors' Prize (Association of Clinical Biochemists). This is an award for research achievement within the field of Clinical Biochemistry. It is awarded annually by a committee drawn from Heads of Clinical Biochemistry Departments within the UK to a scientist or clinician under the age of 40 years working in Clinical Biochemistry or a related discipline (such as Molecular Biology or Clinical Medicine). The award consists of an honorarium and a plaque, and includes an invited plenary lecture at the annual scientific meeting of the Association.
- 2008 - David Curnow Memorial Plenary Lecture, Australasian Association of Clinical Biochemists
- 2012 - Foundation Award, Association for Clinical Biochemistry, UK. This is an annual award to a person normally resident in the UK or ROI who is acknowledged as having made an outstanding contribution to Clinical Biochemistry.

#### **Current roles:**

- 1) Director of the Centre for Public Health (CPH) / Professor of Medicine within the School of Medicine, Dentistry and Biomedical Sciences at Queen's University Belfast. This is one of four research centres which act as the focus for research within the School, and includes over 100 research staff. CPH incorporates The Centre of Excellence for Public Health (Northern Ireland), one of five centres created as part of a £20 million investment across the United Kingdom by the UK Clinical Research Collaboration (UKCRC). In addition, CPH includes the Wellcome Trust Northern Ireland Clinical Research Facility (CRF) and the MRC Methodology Hub for Ireland. Professor Young was the Principal Applicant for the successful CRF And Methodology Hub bids, and one of the co-applicants for the Centre of Excellence bid.
- 2) Associate Medical Director for Research and Development and Consultant in Clinical Biochemistry in the Belfast Health and Social Care Trust, one of the largest NHS Trusts in the UK. He is also Director of the Northern Ireland Clinical Research Network, which is a comprehensive research network with nine clinical interest groups affiliated to the UK Clinical Research Network.

#### **Clinical Responsibilities:**

Professor Young works as a Consultant in Clinical Biochemistry in Belfast Health and Social Care Trust. His main clinical interest is in disorders of lipid metabolism, and he runs the regional lipid clinic. In addition, he contributes to the clinical biochemistry service by providing clinical advice relating to the diagnosis and management of biochemical disorders.

**Research:**

Professor Young's research has been focused in two main areas, the role of micronutrients and oxidative stress in disease and disorders of lipid metabolism. In each of these areas he has made significant, influential and original contributions to knowledge and has provided new insights into the pathophysiology of disease.

Professor Young was the first to identify evidence of free radical production during transient ischemia in the human myocardium, showing that myocardial ischemia reperfusion injury was likely to occur in man. In a series of papers, he demonstrated the presence of increased oxidative stress in diabetes and its relationship to glycaemic control, and in linked studies showed that iron could promote oxidative damage in diabetes as a result of interactions with ascorbate. This work has culminated in a Wellcome Trust-funded multicentre antioxidant supplementation study in diabetic pregnancy which was published in the Lancet in 2010. These studies were extended to demonstrate the existence of oxidative stress in chronic renal failure in combination with multiple abnormalities of micronutrient status, and a series of elegant studies providing a detailed description of the role of oxidative stress in free radical generation in exercising muscle and the potential of this to predispose to altitude sickness.

Professor Young provided the first comprehensive evidence for the role of an interaction between folate status and genotype in determining levels of homocysteine. In a series of subsequent papers a comprehensive description of the influence of genetic variation on homocysteine metabolism has emerged. In clinical trials related to this work, he provided some of the first evidence that B group vitamin supplementation could lower homocysteine, paving the way for subsequent meta-analysis and large scale clinical trials. Over many years and a series of papers, Professor Young has described multiple novel genetic variants in the LDL receptor gene and their role in the development of familial hypercholesterolemia. This resulted in the roll out of family screening for familial hypercholesterolemia in Northern Ireland over several years, a strategy subsequently endorsed by the National Institute for Health and Clinical Excellence for use in England and Wales.

In recent years, Professor Young's work has focussed on nutritional epidemiological studies and clinical trials. This has given rise to a number of novel and potentially important observations, including, for instance, the identification of low vitamin A status as an independent risk factor for mortality in renal transplant recipients and the identification of a relationship between fatty acid intake and risk of age related macular degeneration. Professor Young has also developed a substantial clinical trial programme of nutritional intervention studies. These have focussed on the effects of increased fruit and vegetable intake on health and have attracted considerable funding from the Food Standards Agency, MRC and the Wellcome Trust.

**Teaching:**

Professor Young contributes to both undergraduate and postgraduate teaching. In the undergraduate medical course he is responsible for the chemical pathology section of the integrated pathology course and in addition he shares responsibility for final year teaching on fluid and electrolyte balance. He also has responsibility for the final year module on clinical biochemistry which is part of the BMedSci course. At postgraduate level, Professor Young lectures extensively locally, nationally and internationally, focusing on lipid management and issues related to his work with the International Federation for Clinical Chemistry and Laboratory Medicine.

### **Administrative responsibilities:**

In addition to the roles described above, Professor Young is the chair of the Clinical Ethics Committee within Belfast Health and Social Care Trust and the Trust's hyponatraemia group responsible for the oversight of implementation of RQIA guidance. Previously, he was the Chair of the GAIN panel which developed the adult hyponatraemia guidelines for Northern Ireland (GAIN (2010) *Hyponatraemia in adults (on or after 16th birthday)*). Guidelines and Audit Implementation Network.)

### **Government advisory groups:**

- 1) Chair, Alcohol Advisory Group, DHSSPS, 2007 – present
- 2) Chair, Obesity Preventing Steering Group, DHSSPS, 2008 – present
- 3) Member, Scientific Advisory Committee on Nutrition, UK Department of Health, 2010 -- present

### **National / International Scientific roles:**

- 1) Member of the Scientific Committee, The Association for Clinical Biochemistry (1999 – 2005); Chairman 2002 - 2005.
- 2) Member of Council, The Association for Clinical Biochemistry (2003 – 2005).
- 3) Member of National Meetings Committee, The Association for Clinical Biochemistry (2000 – 2003)
- 4) Member of Education Committee, The Association for Clinical Biochemistry, 2003 – 2005).
- 5) Member of Analytical Investigations Standing Committee, The Association for Clinical Biochemistry (2000 – 2003).
- 6) Member of Clinical Practice Section, The Association for Clinical Biochemistry, 2005 – present.
- 7) Member of Scientific Division, International Federation for Clinical Chemistry and Laboratory Medicine (IFCC), 2003 – 2005.
- 8) Vice-Chair of Scientific Division, IFCC, 2003 – 2010.
- 9) Chair of Scientific Division, IFCC, 2011 - present
- 10) Program Manager for IFCC Working Group on Laboratory Practice Guidelines in Monitoring Immunosuppressive Drugs, 2003 –2005.
- 11) Program Manager for IFCC Working Group on Standardisation of Thyroid Function Tests, 2003 – 2006.
- 12) Program Manager for IFCC Working Group on HbA2, 2004 – present.
- 13) IFCC liaison / Program Manager for joint American Diabetes Association/IFCC working group on insulin standardisation.
- 14) IFCC representative to the Clinical Laboratory Standards Institute Working Group on Verification of Comparability of Patient Test Results, 2006 – 2008.
- 15) Committee member and Treasurer of the Irish Hyperlipidaemia Association (1997 – present).
- 16) Member of the International Scientific Advisory Committee of the fifteenth conference of the Federation of the European Societies of Clinical Chemistry (FESCC), Barcelona, 2003.
- 17) Member of the Scientific Committee of the sixteenth conference of the Federation of the European Societies of Clinical Chemistry (FESCC), Glasgow, 2005.
- 18) Organising committee, Joint AACC-ACB meeting on Pharmacogenomics, Cambridge, September 2002.
- 19) Member of the International Scientific Advisory Committee of the IFCC-WorldLab congress, Fortaleza, Brazil, 2008.
- 20) Member of SAC Chemical Pathology of the Royal College of Pathologists, 2006 – present.
- 21) National Research Lead for Clinical Biochemistry, Royal College of Pathologists, 2006 – 2011.
- 22) Member of NIHR Senior Investigator Panel, 2009 – 2012
- 23) Scientific Organising Committee, EURMEDLAB, Milano, 2013.
- 24) Member of the International Scientific Advisory Committee of the IFCC-WorldLab congress, Istanbul, Turkey, 2014.
- 25) Scientific Organising Committee, EURMEDLAB, Paris, 2015.

### **Other responsibilities:**

1. Medical advisor to and member of the Board of Examiners of the Methodist Church in Ireland, 1999 - present.
2. Member, Rosuvastatin Scientific Advisory Board (UK: AstraZeneca)
3. Member, Ezetimibe Scientific Advisory Board, (UK: MSD)
4. Member / Chair, Fenofibrate Scientific Advisory Board, (UK: Solvay)
5. Member / Chair, Omacor Scientific Advisory Board, (UK; Solvay)
6. Member, Global Advisory Board (Solvay)
7. Member, Global Advisory Board, Nicotinic Acid (MSD)
8. Member of Board of Governors, Methodist College Belfast, 2002 – present. Chair of Education Committee 2006 - present. Chair 2012 -

#### **Editorial roles with Scientific Journals:**

1. Editorial advisor, The Biochemical Journal; 1999-2008.
2. Editorial Board, Journal of Clinical Pathology, 2000 - 2002.
3. Editorial Board, Journal of Clinical Pathology and Molecular Pathology, 2003 - 2005.
4. Editorial Board, Clinical Science, 2004 – present.
5. Editorial Board, Clinical Chemistry, 2005 – 2007; Associate Editor 2007 – present.
6. Editorial Board, Clinical Chemistry and Laboratory Medicine, 2004 – present.
7. Editorial Board, Cardiovascular Risk Abstracts, 2005 – 2010.
8. Editorial Board, Cardiovascular Drug Reviews and Research, 2007 – 2011.
9. Editorial Board, The Open Clinical Chemistry Journal, 2007 – present.
10. Editorial Board and Nutrition Section Editor, Medicine, 2008 – present.
11. Editorial Board, BMJ Case Reports, 2008 – 2012.

#### **Funding bodies:**

Routine reviewer of grant submissions for a number of funding bodies, including the MRC, the Wellcome Trust, The British Heart Foundation, The Health Research Board (Ireland), The British Diabetic Association and the Hong Kong Medical Research Council.

1. Member of Health Research Board (Ireland) Metabolism, Endocrinology and Reproductive Medicine Committee, 2001 – 2004.
2. Member of Health Research Board (Ireland) Population Health, Epidemiology and Health Services panel, 2005 - 2009.
3. Chair of Health Research Board (Ireland) Clinician Scientist panel, 2007 – 2010.
4. Member of Epidemiology Panel, Finnish Academy, 2009
5. Member of NIHR Senior Investigator Panel, 2009 - 2012
6. Member of Project Grants Committee, BHF, 2007 – 2011.

#### **Examining:**

External examiner for PhD/MD Theses for the following Universities:

1. University of Birmingham
2. National University of Ireland
3. University of Glasgow
4. University of Dublin (Trinity College)
5. University of Ulster
6. University of Wales
7. Hong Kong Polytechnic University
8. University of Edinburgh
9. University of Surrey
10. University of Liverpool

External examiner for the following taught courses:

1. Intermediate MB examination, University of Wales (2001 – 2004)
2. Level 2 examination MB ChB, University of Liverpool (2003 – 2006)
3. Clinical Chemistry MB ChB, University of Birmingham, 2006 – 2009.
4. MSc in Clinical Chemistry, University of Surrey, 2006 –present.
5. MRes University of Liverpool, 2010 – present.

#### **Research grants:**

Total research grant income of over £ 15 million

#### **Major current grants:**

1. 2006. The Wellcome Trust. £4 000 000 approximately to establish a Clinical Research Facility for Northern Ireland.
2. 2008 UKCRC £ 5 000 000 approximately to establish the Northern Ireland Centre of Excellence for Public Health Research.
3. 2006-2011 £525,000. Northern Ireland Research and Development Office. Studies of the prevalence and determinants of obesity and cardiovascular risk in young children: The HAPO Family Study.
4. 2008 – 2011 £950 000. Food Standards Agency. Effects of dietary intake of fruits and vegetables on insulin resistance – a randomised controlled trial.
5. 2011 – 2014. £500 000 from the Medical Research Council to establish a Methodology Hub for Ireland
6. 2011 – 2014. £340 000 from the Medical Research Council for Development and testing of algorithm to predict fruit and vegetable consumption.
7. 2012 – 2015. £280 000 from the Medical Research Council (NPRI) for Peer support to encourage adoption and maintenance of Mediterranean diet: a feasibility and pilot study.

### Scientific Publications (Full papers, review articles and editorials only):

- 1) Roberts MJD, Young IS, Trouton TG, Trimble ER, Khan MM, Webb SW, Wilson CM, Patterson GC, Adgey AAJ. Transient release of lipid peroxides after coronary artery balloon angioplasty. *Lancet* 1990;336:143-145.
- 2) Cunningham R, Young IS, O'Kane M, Dolan O, Winder J, McKinstry S, Hawkins S, Johnston CF, Buchanan KD. Serum neurone specific enolase (NSE) levels as an indicator of neuronal damage in patients with cerebral infarction. *Eur.J.Clin.Invest.* 1991;21:497-500.
- 3) Young IS, Trimble ER. Measurement of malondialdehyde in plasma by high performance liquid chromatography using fluorimetric detection. *Ann.Clin.Biochem.* 1991;28:504-508.
- 4) Young IS, Trimble ER. Red blood cell magnesium and chronic fatigue syndrome. *Lancet* 1991;337:1094-1095.
- 5) Young IS, Goh EML, McKillop UH, Stanford CF, Nicholls DP, Trimble ER. Magnesium status and digoxin toxicity. *Brit.J.clin.Pharmacol.* 1991;32:717-722.
- 6) Young IS, Torney JJ, Trimble ER. The effect of ascorbate supplementation on oxidative stress in the streptozotocin diabetic rat. *Free Radic.Biol.Med.* 1992;13:41-46.
- 7) Nicholls DP, O'Kane MJ, Young IS, McDowell IFW. Hyperlipidaemia: effects of therapy on reducing mortality. *Int.Pharm.J.* 1992;6:126-127.
- 8) Young IS, Neely D, Lavery GG. Treatment of hypophosphataemia. *Lancet* 1993;341:374.
- 9) McElhenny BE, Todd DJ, McCance D, Young I, Burrows D. Erythrodermic psoriasis. Report of a case associated with symptomatic hypophosphataemia. *Clin.Exp.Dermatol.* 1993;18:167-168
- 10) Young IS, Bailie K, Trimble ER. Severe hypophosphataemia in acute leukaemia. *Ann.Clin.Biochem.* 1993;30:326-328.

- 11) Trouton TG, Allen JD, Young IS, Trimble ER, Adgey AAJ. Altered cardiac oxygen extraction, lactate production and coronary blood flow after large dose transthoracic DC countershocks. *PACE* 1993;16:1304-1309
- 12) Young IS, Purvis JA, Lightbody J, Adgey AAJ, Trimble ER. Lipid peroxidation and antioxidant status following thrombolytic therapy for acute myocardial infarction. *Eur.Heart J.*1993;14:1027-1033.
- 13) Soong CV, Young IS, Blair PHB, Hood JM, Rowlands BJ, Trimble ER, Barros D'Sa AAB. Lipid peroxidation as a cause of lower limb swelling following femoro-popliteal bypass grafting. *Eur.J.Vasc.Surg.* 1993;5:540-545.
- 14) Nugent A-M, Neely D, Young I, McDowell I, O'Kane M, Stanford CF, Nicholls DP. Stress responses after treatment of hypercholesterolaemia with simvastatin. *British Journal of clinical Pharmacology* 1993;36:474-477.
- 15) Young IS. Near patient testing. *Brit.Med.J.* 1993;307:1008.
- 16) Young IS, Bailie K, Trimble ER. Hypophosphataemia and leukaemia. *Ann.Clin.Biochem.* 1993;30:593.
- 17) Young IS, Trouton TG, Torney JJ, McMaster D, Callender ME, Trimble ER. Antioxidant status and lipid peroxidation in hereditary haemochromatosis. *Free Radic.Biol.Med.* 1994;16:393-397.
- 18) McDowell I, Brennan G, McEneny J, Young IS, Nicholls DP, McVeigh G, Bruce I, Trimble ER, Johnston G. The effect of probucol and vitamin E treatment on the oxidation of low density lipoprotein and forearm vascular responses in humans. *Eur.J.Clin.Invest.* 1994;24:759-765.
- 19) Soong C, Young IS, Blair P, Trimble ER, Hood J, Adair R, Rowlands BJ, Barros D'Sa AAB. The effects of allopurinol on lipid peroxidation and lower limb swelling following femoro-popliteal bypass grafting. *Eur.J.Vasc.Surg.* 1994;8:435-440.
- 20) Loughrey CM, Young IS, McDowell I, McNamee P, Trimble ER. Oxidation of low density lipoprotein in patients on regular haemodialysis. *Atherosclerosis* 1994;110:185-193.
- 21) Loughrey CM, Young IS, Lightbody JH, McMaster D, McNamee P, Trimble ER. Oxidative stress in haemodialysis. *Q.J.Med* 1994;87:679-683.
- 22) Young IS, Tate S, Lightbody JH, McMaster D, Trimble ER. The effects of desferrioxamine and ascorbate on oxidative stress in the streptozotocin diabetic rat. *Free Radic.Biol.Med.* 1995;18:833-840.



- 23) Ward AJ, Graham CA, Nevin NC, Trinick T, Young IS, O'Kane M, Nicholls DP. Three novel mutations in the LDL receptor gene in patients with familial hypercholesterolaemia. *Hum.Mutat.* 1995;6:254-256.
- 24) Young IS, Nicholls DP. Lipid metabolism (invited commentary). *Curr.Opin.Lipidol.* 1994;5:U95-96.
- 25) Sharpe P, McGrath L, Young IS, Archbold P. Effect of red wine consumption on lipoprotein (a) and other risk factors for atherosclerosis. *Q.J.Med.* 1995;88:101-108.
- 26) Lewis SEM, Boyle PM, McKinney KA, Young IS, Thompson W. Total antioxidant capacity of seminal plasma is different in fertile and infertile men. *Fertil.Steril.* 1995;64:868-870.
- 27) Young IS, Nicholls DP. Lipid metabolism (invited commentary). *Curr.Opin.Lipidol.* 1995;6:U123-124
- 28) Roxborough HE, Young IS. Carbamylation of proteins and atherogenesis in renal failure. *Med.Hypoth.* 1995;45:125-128.
- 29) Jackson P, Loughrey CM, Lightbody JH, McNamee P, Young IS. Effect of haemodialysis on total antioxidant capacity and serum antioxidants in patients with chronic renal failure. *Clin.Chem.* 1995;41:1135-1138.
- 30) Ward AJ, O'Kane M, Nicholls DP, Young IS, Nevin NC, Graham CA. A novel single base deletion in the LDLR gene (211delG): effect on serum lipid profiles and the influence of other genetic polymorphisms in the ACE, ApoE and ApoB genes. *Atherosclerosis* 1996;120:83-91.
- 31) Doherty G, Young IS. The effect of anticoagulant choice on apparent total antioxidant capacity. *Ann.Clin.Biochem.* 1996;33:93-94.
- 32) Roxborough HE, Millar CA, McEneny J, Young IS. Carbamylation inhibits the ferroxidase activity of caeruloplasmin. *Biochem.Biophys.Res.Comm.* 1995;214:1073-1078.
- 33) Young MRA, Young IS, Johnston SR, Rowlands BJ. Lipid peroxidation assessment of free radical production following release of obstructive uropathy. *J.Urol.* 1996;156:1828-1832.
- 34) Harmon DL, Woodside JV, Yarnell JWG, McMaster D, Young IS, McCrum EE, Gey KF, Whitehead AS, Evans AE. The common "thermolabile" variant of methylene-tetrahydrofolate reductase is a major determinant of mild hyperhomocysteinaemia. *Q.J.Med.* 1996;89:571-577.

- 35) Soong CV, Young IS, Hood JM, Rowlands BJ, Trimble ER, Barros D'Sa AAB. The generation of byproducts of lipid peroxidation following carotid endarterectomy. *Eur.J.Vasc.Surg.* 1996;14:455-458.
- 36) McManus J, McEneny J, Young IS, Thompson W. Effect of oestrogens and progestagens on the susceptibility of low density lipoproteins to oxidation in vitro. *Maturitas* 25;1996:125-131.
- 37) Armstrong AM, Chestnutt JE, Gormley MJ, Young IS. The effect of dietary treatment on lipid peroxidation and antioxidant status in newly diagnosed non-insulin dependent diabetes. *Free Radic.Biol.Med.* 1996;21:719-26.
- 38) Woodside J, Young IS, Yarnell J, McMaster D, Evans A. The effects of oral vitamin supplementation on cardiovascular risk factors. *Proc.Nutr.Soc.* 1997;56:479-488.
- 39) McAnlis GT, McEneny J, Pearce J, Young IS. Dietary flavonoids protect low density lipoprotein from oxidative modification. In: Sadler NJ, Saltmarsh M eds. *Functional Foods – the consumer, the product and the evidence.* Royal Society of Chemistry, 1998.
- 40) McAnlis GT, McEneny J, Pearce J, Young IS. Effects of a flavonoid-rich diet on plasma quercetin and susceptibility of LDL to oxidation. In: Kumpulainen JT and Salonen JT eds. *Natural antioxidants and anticarcinogens in nutrition, health and disease.* Royal Society of Chemistry, 1999.
- 41) Nicholls DP, Young IS, Graham CA. Genotype/phenotype correlations in familial hypercholesterolaemia. *Curr.Opin.Lipidol.* 1998;9:313-317.
- 42) Hasselwander O, Young IS. Oxidative stress in chronic renal failure. *Free Rad.Res.* 1998;29:1-11.
- 43) Foy CJ, Passmore AP, Vahidassr MD, Young IS, Smye M, Lawson JT. Apolipoprotein E (apoE) phenotype in Alzheimer's disease, vascular dementia, and Parkinson's disease with and without dementia in Northern Ireland. *Progress in Alzheimer's disease and Parkinson's disease.* Fisher et al., eds., Plenum Press, New York, 1998, 805-810.
- 44) Woodside J, Young IS, Yarnell J. Fruit, vegetables and antioxidants: their role in the prevention of cardiovascular and other diseases. In: Basu T, Temple N eds. *Antioxidants in human health and disease,* CAB International, 1999.
- 45) Young IS, Roxborough H, Woodside J. Antioxidants and respiratory disease. In: Basu T, Temple N eds. *Antioxidants in human health and disease,* CAB International, 1999.

- 46) McEneny J, Young IS. Assessment of lipid peroxidation. In : Barnett Y, Barnett C eds. *Methods in Molecular Medicine: Ageing Methods and Protocols*. The Humana Press Inc, USA, 2000.
- 47) Loughrey CM, Young IS. Indirect assays of lipid peroxidation. Pages 441 - 464 in: Rifai N, Warnick GR, Dominiczak MH eds. *Handbook of lipoprotein metabolism* (second edition), AACCC Press, 2000.
- 48) Lynch MH, Young IS. Measurement of thiamine in food and body fluids. *J Chrom A* 2000;881:267-284.
- 49) Woodside JV, Young IS. Homocysteine, diet and cardiovascular disease. In: Basu T, Temple N eds. *Nutritional Health: Strategies for Disease Prevention*, Humana Press Inc, USA.
- 50) Woodside JV, Young IS. Dietary factors and the susceptibility of LDL to oxidation. In: Basu T, Temple N eds. *Nutritional Health: Strategies for Disease Prevention*, Humana Press Inc, USA.
- 51) Young IS, Nicholls DP. Hyperlipidaemia and cardiovascular disease. *Curr.Opin.Lipidol.* 2001;12:227-229.
- 52) Young IS, Woodside JV. Antioxidants in health and disease (invited leader). *J.Clin.Path.* 2001;54:176-86.
- 53) Young IS. Measurement of total antioxidant capacity (invited editorial). *J.Clin.Path.* 2001;54:339.
- 54) Young IS, Woodside JV. Homocysteine and folate (invited review). *Curr.Opin.Clin.Nutr.Metab.Care* 2000;3:427-432.
- 55) Young IS, McEneny J. Lipoprotein oxidation and atherosclerosis. *Biochem.Soc.Trans.* 2001;29:358-362.
- 56) Young IS, Woodside JV. Fibrates and homocysteine (editorial). *Nutrition* 2001;17:973-974.
- 57) Woodside JV, Young IS. Folate, homocysteine and cardiovascular disease. In: *Folate and Human Development*. Massaro, EJ ed. Humana Press, Inc.
- 58) Young IS. Obesity and Diabetes; how can we tackle it in primary care? *Northern Ireland Medicine Today* 2002;36:18-20.
- 59) Young IS, Nicholls DP. Lipid metabolism. *Curr Opin Lipidol.* 2002;13:693-5.

- 60) Woodside JV, Gilchrist SECM, Young IS. B-vitamins, homocysteine and cardiovascular disease. *Recent Research Developments in Nutrition* 2002;5:189-204.
- 61) Young IS, Nicholls DP. Lipid metabolism. *Curr.Opin.Lipidol.* 2003;14:537-539.
- 62) Kilpatrick K, Young IS. Recent developments in laboratory assessment of cardiovascular disease. *Hospital Healthcare Europe* 2003;L11-L13.
- 63) Hare LG, Woodside JV, Young IS. Dietary salicylates. *J Clin Pathol.* 2003;56:649-50
- 64) Young IS, McFarlane C, McEneny J. Oxidative modification of triacylglycerol-rich lipoproteins. *Biochem Soc Trans.* 2003;31:1062-5.
- 65) The UK HDL-C Consensus Group. Role of fibrates in reducing coronary risk: a UK concensus. *Curr.Med.Res.Opin.* 2004;20:241-247.
- 66) Young IS, Nicholls DP. Lipid metabolism. *Curr.Opin.Lipidol.* 2004;15:615-617.
- 67) Young IS. Oxidative stress and vascular disease: insights from isoprostane measurement. *Clin Chem.* 2005;51:14-5.
- 68) Woodside JV, McCall D, McGartland C, Young IS. Micronutrients: dietary intake v. supplement use. *Proc Nutr Soc.* 2005 Nov;64(4):543-53.
- 69) Young IS. Lipids for Psychiatrists - an overview. *J Psychopharmacol.* 2005;19(6 suppl):66-75.
- 70) Young IS, Nicholls DP. Lipid metabolism. *Curr Opin Lipidol.* 2005;16:698-700.
- 71) Young IS. Interpretive comments on clinical biochemistry reports. *J Clin Pathol.* 2005 Jun;58(6):575
- 72) Lewis SEM, Sterling ESL, Young IS, Thompson W. Comparison of individual antioxidants of sperm and seminal plasma in fertile and infertile men. *Fertil.Steril.* 1997;67:142-147.
- 73) Young IS, Nicholls DP. Hyperlipidaemia and cardiovascular disease. *Curr.Opin.Lipidol.* 1997;8:U68-69.

- 74) Purvis JA, Vallely SR, Young IS, Trimble ER, Campbell NPS, Adgey AAJ. A role for  $\alpha$ -tocopherol in the acute phase of myocardial infarction? *The Lancet* 1996;347:1690.
- 75) McEneny J, Loughrey CM, McNamee PT, Trimble ER, Young IS. Susceptibility of VLDL to oxidation in patients on regular haemodialysis. *Atherosclerosis* 1997;129:215-220.
- 76) Hasselwander O, Young IS. Oxidation of low density lipoprotein and atherosclerosis in chronic renal failure. *Med.Hypoth.* 1997;49:389-395.
- 77) Bates JH, Young IS, Galway L, Traub AI, Hadden DR. Antioxidant status and lipid peroxidation in diabetic pregnancy. *Brit.J.Nutr.* 1997;78:523-532.
- 78) Duly EB, Ward AJ, Kirk CW, Nevin NC, Trinick TR, Nicholls DP, Young IS, Graham CA. Apo E genotype and familial hypercholesterolaemia. *Ann.Clin.Biochem.* 1997;34:534-536.
- 79) Lynch PLM, Trimble ER, Young IS. High performance liquid chromatographic determination of thiamine diphosphate in erythrocytes using internal standard methodology. *J.Chromatog.B* 1997;701:120-123.
- 80) Steele IC, Young IS, Stevenson H, Maguire S, Rollo M, Scrimgeour C, Rennie MJ, Nicholls DP. Body composition and energy expenditure of patients with chronic cardiac failure. *Eur.J.Clin.Invest.* 1998;28:33-40.
- 81) McManus J, McEneny J, Thompson W, Young IS. The effect of hormone replacement therapy on the oxidation of low density lipoprotein in post-menopausal women. *Atherosclerosis* 1997;135:73-81.
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