## Nutricia Research Foundation Awards & Grants 1990-2016

### Research Grants

<table>
<thead>
<tr>
<th>No.</th>
<th>Year</th>
<th>Grant Title</th>
<th>Grantee and Affiliation</th>
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<tbody>
<tr>
<td>1-</td>
<td>1990-02/1991-07</td>
<td>Influence of milk polyamines on intestinal development and function.</td>
<td>Forget PP, University of Liege</td>
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<tr>
<td>3-</td>
<td>1991-01</td>
<td>Dietary fish oil supplement and resistance to infection.</td>
<td>Van der Meer J, Blok, WL, University of Nijmegen</td>
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<tr>
<td>4-</td>
<td>1991-09/1992-01</td>
<td>Resting metabolic rate, diet induced thermogenesis and body composition in elderly people.</td>
<td>Deurenberg PRM, University of Wageningen</td>
</tr>
<tr>
<td>5-</td>
<td>1991-04</td>
<td>Interactions of iodine and selenium deficiency on thyroid hormone metabolism with perculiar focus on endemic myxedematous cretinism.</td>
<td>Vanderpas J, University Hospital Mons</td>
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<tr>
<td>7-</td>
<td>1992-02/1993-08</td>
<td>Maternal determinants of child health and caring in a rural tropical setting.</td>
<td>Vandenbroeck J, University of Leuven</td>
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<tr>
<td>8-</td>
<td>1992-07</td>
<td>Enteral feeding related diarrhoea: investigation of influence of eternal feeding on colonic functions.</td>
<td>Silk DBA, Central Middlesex Hospital Londen</td>
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<tr>
<td>10-</td>
<td>1992-17</td>
<td>Optimal energy density of weaning foods for older infants and young children in less developed countries</td>
<td>Brown KH, Griman MIS, University of California, Davis / Lima Peru</td>
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<tr>
<td>11-</td>
<td>1993-06</td>
<td>The effects of early enteral feedings on nitrogen balance and plasma amino acids in infants and young children following thermal injury.</td>
<td>Nyhan W, University of California, La Jolla</td>
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<td>12-</td>
<td>1993-10/1994-17</td>
<td>Surface marker analysis of lymphocyte subsets in weaning protein energy malnutrition.</td>
<td>Woodward B, University of Guelph, Canada</td>
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<td>14-</td>
<td>1993-17</td>
<td>The effects of acidosis on nutritional status in haemodialysis patients.</td>
<td>Goodship THJ, Newcastle upon Tyne, UK</td>
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<tr>
<td>15-</td>
<td>1993-22</td>
<td>Calcium and vitamin D metabolism in the preterm infant.</td>
<td>Cooke RJ, Newcastle upon Tyne, UK</td>
</tr>
</tbody>
</table>
16- 1994-12  Fletcher A, London School of Hygiene and Tropical Medicine  
Study on the anti-oxidant status, ultraviolet light and diarrhoe in patients with cataracts: a case control study in Spain (Valencia district).

17- 1994-15/1995-01  Sherman PM, The Hospital for Sick Children, Toronto, Canada  
Inhibition of Enteropathogenic E.coli adhesion to epithelial cells.

18- 1994-26/1995-16  Newell S, McClure RJ, University Hospital Leeds, St. James’s University Hospital London.  
Hypocaloric enteral feeding in the very low-birth weight infant.

19- 1994-30/1995-28  Folts JD, University of Wisconsin-Madison, USA  
Studies of antiatherogenic/antithrombotic foods and vitamins in an animal model.

20- 1995-10  Powers HJ, Sheffield Children’s Hospital Sheffield, UK  
An investigation into the association between high-plasma vitamin C concentrations and poor outcome in premature babies.

21- 1995-23  Horslen S, Dept. Paediatrics, Children’s Hospital Sheffield, UK  
Effect of taurine supplementation on bile salt metabolism in premature infants receiving intravenous nutrition and in children with liver disease due to cystic fibrosis.

Interaction between food proteins and intestine: antigen absorption and processing.

23- 1995-31  Vermaak WJ, Chemical Pathology, University of Pretoria, South Africa  
Plasma homocysteine levels as a metabolic marker for suboptimal vitamin B₁₂ and folate intake and its application to identify individuals at high risk for neural tube defects (NTD).

24- 1996-01  Woodward W, University of Guelph, Canada  
Blood as a window on lymphoid organs in waiting malnutrition: quiescent lymphocytes.

Calcium supplementation as a nutritional intervention to environmentally lead exposed children: a randomised controlled study in Shanghai, China.

26- 1996-03  Weaver LT, Yorkhill Hospital, University of Glasgow  
Site and extent of complex carbohydrate digestion in early life measured using ¹³C-labelled substrates.

Long-term follow-up of children who were stunted in early childhood and the effects of nutritional supplementation and psychosocial stimulation.

28- 1996-20  Forget PP, Buurman WA, Steege JCA ter  
A study on the usefulness of spermine as an additive to infant formulas.
29- 1996-21 Geissler CA, Carvalho-Smith CC, Davies SP, King’s College London
The effect of multivitamin/mineral supplementation on immune and cognitive function in older people.

30- 1997-14 Mehalanabis D, Society for Applied Studies, Calcutta, India
Zinc and vitamin A supplementation of infants and young children with pneumonia: effect on clinical outcome and oxidative stress.

31- 1997-23 Meer K de, Okken A, Children’s Hospital, Utrecht University
Validation of intragastrical administration of $^{13}$C-valine to estimate fractional synthesis of plasma and bone proteins in growing piglets. Development of a minimally invasive method to measure protein synthesis in plasma and bone in children.

32- 1998-01 Grimble RF, University of Southampton, UK
Investigation of specialised requirements for essential amino acids during inflammation in the young.

Effects of dietary supplementation with phytoestrogen on endothelial function of healthy middle aged British men.

34- 1998-22 Davis BA, Blacksburg, VA, USA
Cytokine gene expression during vitamin B-6 deficiency

Lactoferrin — a missing nutrient in formulation milk and its bactericidal role in vivo

36- 1998-50 Carnielli VP, University of Padova, Italy
Effect of diet on the brain lipid composition of small preterm infants

37- 1999-02 Kumar S, University of Manchester, UK
The relevance of CD105 and its ligand TGF-β to dietary antecedents of coronary heart disease in a population of British immigrants compared to contemporaries still living in their Indian village of origin

38- 1999-06 Baqui AH, ICDDR, Dhaka, Bangladesh
A community based randomised controlled trial to assess the efficacy of iron and/or zinc supplementation to reduce anemia, diarrhea and ARI morbidity and to improve growth in Bangladesh

39- 1999-07 Yaqoob P, University of Reading, UK
The effects of tea polyphenols on aspects of human monocyte formation

40- 1999-20 Evans RW, London, UK
Identification of antimicrobial peptides derived from human lactoferrin within stool and urine samples of breast fed infants

41- 1999-25 Wapnir RA, New York, USA
Mechanism of nitric oxide induced intestinal secretion: modulation of soluble fiber

42- 1999-31 Bhuta ZA, Aga Kahn University, Karachi, Pakistan
A randomised double-blind, placebo controlled trial of multiple micronutrient supplementation of small-for-date infants in Karachi: impact on growth, morbidity and neurodevelopmental outcome in infancy.
43- 1999-32    **Sauer PJJ**, University of Groningen, the Netherlands
The role of nutrition in the regulation of human cholesterol and fat metabolism in neonatal life

44- 2000-10    **Lafeber HN**, Free University of Amsterdam, the Netherlands
Studies on protein metabolism and urea cycle synthesis in the normal and growth retarded ovine fetus: intervention with ornithine-keto-glutaric acid and arginine

45- 2000-12    **Frühbeck G**, University of Pamplona, Spain
Effect of fasting and satiety on regional cerebral blood flow changes as determined by positron emission tomography. Comparative study in normal-weight and obese women

46- 2000-14    **Powers HJ**, University of Sheffield, UK
Vitamin C as a determinant of the integrity of aniotic membranes

47- 2000-15    **Heyman M**, INSERM, Paris, France
The role of gut epithelium in the transport and processing of gliadin peptides in coeliac disease

48- 2001-06    **Cummins A**, Queen Elisabeth Hospital, Adelaide, Australia
Epithelial growth of the small intestine in human infants

49- 2001-09    **Haggerty P**, Rowett Research Institute, Aberdeen, UK. Maternal nutritional status at conception, maternal genotype and fetal growth.

50- 2001-12    **Langley-Evans S**, University College Northampton, UK
Role of salivary antioxidants in protection against periodontal disease

51- 2001-17    **Sanderson I**, University of London, UK. Lactoferrin: a signal from breast milk to intestinal cell nuclei

52- 2001-23    **Raito H**, Helsinki University Central Hospital, Finland
Immunology of human breast milk – Interaction between the leukocytes of breast milk and the immune system of the healthy or cow’s milk allergic suckling infant.

53- 2002-01    **Benmerah A**, INSERM, Paris, France
Role of the low-affinity IgE receptor, CD23, in intestinal transport of IgE and allergens.

54- 2002-04    **Dupertuis Y**, University Hospital of Geneva, Switzerland
Does immunonutrition modulate the proliferation of gastrointestinal cancer cells?

55- 2002-07    **van Goudoever JB**, Acad. Hospital Rotterdam, Netherlands
Splanchnic substrate oxidation in preterm infants.

56- 2002-12    **Kuipers F**, Academic Hospital Groningen, The Netherlands
Does fetal cholesterol exposure affect the susceptibility to develop diet-induced hyperlipidemia in mice? The molecular basis of “metabolic programming”.

57- 2002-15    **Pierik FH**, Erasmus Medical Centre, Rotterdam, Netherlands
Phytooestrogens and reproductive health.

58- 2002-18    **Tappy L**, University of Lausanne, Switzerland
Role of VLDL-triglyceride production and de novo lipogenesis in insulin resistance.
59-2002-19 Thompson D, University of Bath, UK. Lycopene supplementation and exercise-induced oxidative stress.

60-2002-23 Yaqoob P, University of Reading, UK
The effect of fish oil supplementation of oxidised LDL.

61-2003-06 Symonds M, Queen’s Medical Centre, Nottingham, UK
Maternal nutrient restriction during pregnancy and the programming of adult cardiovascular disease risk.

62-2003-07 de Groot LCPGM, Wageningen University, The Netherlands
Mild vitamin B12 deficiency and impaired cognitive function in old age: the efficacy of oral vitamin B12 supplementation

63-2003-09 van Goudoever JB, Acad. Hospital Rotterdam, Netherlands
Cysteine requirements for preterm infants

64-2003-13 Thies F, University of Aberdeen, UK
Lipoprotein-lymphocyte interaction: influence of the fatty acid composition of the phospholipid moiety from HDL on human lymphocyte activity

65-2003-14 Rimbach G, University of Reading UK
Molecular mechanisms by which isoflavones protect against coronary artery diseases. Studies in cultured cells and in humans.

66-2004-03 Sjöholm S, Karolinska Institute, Stockholm, Sweden
Nutrient sensing by protein phosphorylation cascades in the human insulin-secreting B-cell

67-2004-04 Pentilla I, University of Adelaide, Australia
Maternal milk derived dendritic cells and regulation of infant mucosal immune responses

68-2004-08 Heyman M, INSERM / Hôpital Necker, Paris, France
Nutrition and immunity: The involvement of intestinal epithelial exosomes in the information of the mucosal immune system on dietary antigens

An investigation into vitamin D deficiency and effect of supplementation in pregnant women of different ethnic origins

70-2004-34 Bassi Z, Alder Hey Children’s Hospital, Liverpool, UK
Neurodevelopmental status and cardiac outcomes following nutritional interventions in children with cardiac defects and feeding dysfunction.

71-2004-37 Kikafunda J, Makarere University, Kampala, Uganda
Neurodevelopmental status and cardiac outcomes following nutritional interventions in children with cardiac defects and feeding dysfunction.

72-2005-05 Calis J, Blantyre, Malawi / Amsterdam, The Netherlands.
The pathogenesis of severe anemia in HIV infected children Malawi

73-2005-10 Maccallan D, St. George’s Hospital Medical School London, UK.
Effects of Malnutrition on lymphocyte function: role of reduced substrate availability in suppressing lymphocyte division and metabolic activity.

74-2005-18 Ma G, National Institute for Nutrition and Food Safety, Beijing, China
School Based Child Obesity Prevention study in Urban Beijing

76- 2006-02  **Froy O**, Hebrew University of Jerusalem, Israel. The effect of the biological clock on food consumption and longevity

77- 2006-09  **Delporte C**, ULB, Campus Ersasme, Brussels, Belgium. Effects of n-3 PUFA deficiency+supplementation on the expression of AQP7, AQP9 and ghrelin


79- 2006-13  **Kolsteren P**, Prince Leopold Institute of Tropical Medicine., Antwerp, Belgium. Qualitative and quantitative assessment of nutritional status and lifestyles of Vietnamese adolescents

80- 2006-17  **Slimani N**, Int. Agency for Research on Cancer, Lyon, France. The Influence of Total Dietary Iron Intake and Dietary Iron from Various Food Sources on Colorectal Cancer Risk in the European Prospective Investigation into Cancer and Nutrition (EPIC) Study


82- 2006-28  **Tang G**, Tufts University, Boston MA, USA. Vitamin A value of high beta-carotene plant food in humans

83- 2007-02  **Babajide JM**, University of Agriculture, Abeokuta, Nigeria. Quantitative effect of *Piliostigma thonnigii* and *Khaya ivorensis* leaves as local preservatives on the quality of traditional dry-yam

84- 2007-12  **Heinrich J** GSF National Research Center for Environment and Health, Neuherberg, Germany. Influence of genetic variants of bitter-taste receptor gene TAS2R38 on acceptance of hydrolysed infant formula and weight gain during the first 4 months of life

85- 2007-17  **Larson G**, Umea University, Sweden. Structural studies on Ber e 1, the major allergen from Brazil-nut – Molecular insights into food allergy

86- 2007-33  **Weiler H**, McGill University, Montreal, Canada. Vitamin D dose-response study to establish dietary requirements in infants

87- 2007-37  **Krauss-Etschmann S**, Munich University, Germany. Effects of n3/n6 polyunsaturated fatty acids on the placental immune response


89- 2008-01  **Amiran A**, Univ of Haifa, Israel. The impact of n-3-PUFA-derived lipid mediators on pro-resolving functions of macrophages during the resolution of acute inflammation.

90- 2008-08  **Baigana R**, Univ of Kampala, Uganda. Influence of *Helicobacter pylori* infection during pregnancy and its impact on the pregnancy anaemia intervention package in Uganda

92- 2008-21 van der Ven A, Radboud University, Nijmegen, The Netherlands. Iron and malaria, a two edge sword
94- 2008-25 Symonds M, Univ of Nottingham, UK. Increased maternal fructose consumption as a nutritional mediator of fetal programming of later cardiovascular and metabolic disease.
97- 2009-06 Griffith L, Gold Coast, Australia, Interaction of genotype, homocysteine and vitamin levels
98- 2009-07 Nieminen P, Oulu, Finland, N-3 PUFA and prevention of hepatic lipidosis – the mink as a new model for non-alcoholic fatty liver disease
99- 2009-10 O’Connel O, Norwich, UK, Effects of Vitamin D on pro-inflammatory responses in human airway epithelial cells
100- 2009-11 Kotecha S, Cardiff, UK, The role of nutrition including catch up growth on lung function in children who were born with intrauterine growth retardation
101- 2009-15 Qi K, Beijing, China, Molecular Study on Leptin Resistance in Obesity: Epigenetic Modification of Leptin Promoter by n-6/n-3 PUFAs
102- 2009-17 Jonker F, Amsterdam, Netherlands, Iron and the susceptibility to infection: risk assessment and evaluation of a novel iron biomarker in children
103- 2009-26 Kars M, St. Louis, USA, Effect of endoplasmic reticulum stress on metabolic function
104- 2009-31 Joosten I, Nijmegen, Netherlands, Novel immunoregulatory properties of vitamin D
105- 2009-34 Whelan K, London, UK, A randomised controlled trial to determine the effect of additional fructo-oligosaccharides on the colonic microbiota faecal short-chain fatty acids and immune status among patients receiving enteral feeding
106- 2009-35 Sebert S, Nottingham, UK, Perinatal programming of energy sensing: influence of food intake control and obesity development
107- 2010-04 Coeffer M, Rouen, France, Glutamin, leucine and gut metabolism: which mechanism?
108- 2010-09 Gottrand F, Lille, France, Synergistic effects of acidic oligosaccharides and n-3PUFA in the modulation of pulmonary inflammation
109- 2010-19 Tran C, Adelaide, Australia, The role of zinc adjuvant therapy on linear growth in children with celiac disease
110- 2010-25 Yacoob P, Reading, UK, Influence of eNOS on the vascular response to fish oil
Towards safe and effective iron supplementation in malaria endemic areas

The efficacy of a local vitamin-C rich fruit (Guava) in improving Fe absorption from mungbean product and effect on Fe status of rural Indian children (5-9 years)

Revealing regulators of the nutrient sensor Gcn2

Prevalence of T1DM and thyroid antibodies in children at genetic risk for Celiac disease taking part in a randomized placebo controlled intervention trial

Improving Fe status in children in semi-arid area in Kenya: the potential of a maranth grain flour

Understanding sex differences in the regulation of essential fatty acid metabolism in humans

Vit K status, markers of coronary calcium and risk of cardiovascular disease among patients with T2DM

Synergistic effect of fatty acids + bile acids in the transdifferentiation of hum. white to brown adipocytes

Development of a complementary food for infants in Ghana

Sulforaphane as a nutr supplement to activate the transcription factor Nrf2 in the brain and modify Alzheimer’s disease progression

Nutr status, colonic health and gut microbiota in patients with coeliac disease: impact of gluten free diet

Validity of predictive equations for resting energy expenditure in ped. inpatients +outpatients

Prevalence of the polymorphisms (FADS1,2 and 3) that influence LCPUFA synthesis

Potential of creatine application strategies and resistance exercise for improving musculoskeletal health in older adults

Prevention of diabetes induced vascular dysfunction using tocotrienol.

The effect of obesity and the metabolic syndrome on post-natal bone development.


132- 2012-34  Slevin M, Barcelona, Spain / Manchester, UK. Analysis of the endothelial protective effects of the bioactive components of aged garlic extracts: potential as protective medicine against atherosclerosis and cardiovascular disease.

133- 2012-35  Broersen K, Enschede, Netherlands. Switching the immune response to food proteins on and off.

134- 2012-36  Skaric-Juric T, Zagreb, Croatia. Obesity in Croatian Roma: the interaction of leptin system genes and nutritional status biomarkers in different environments

135- 2012-45  De Keijzer S, Nijmegen, Netherlands. Effects of PUFA on dendritic cells immunobiology


137- 2013-19  Chun Q, Storrs, USA. Chokeberry Polyphenols Promote Bone Health by Inhibiting Inflammation-Induced Bone Resorption.


139- 2013-34  Kruger R. Auckland, New Zealand. Hidden fat in young New Zealand women: what are the metabolic risk and predictive factors.


141- 2013-36  Sexton D, Norwich, UK. Modulation of airway inflammation by the dietary isothiocyanate, Sulforaphane, and assessment of its steroid sparing capacity.


<table>
<thead>
<tr>
<th>ID</th>
<th>Year</th>
<th>Author(s)</th>
<th>Title</th>
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<tbody>
<tr>
<td>147</td>
<td>2014-07</td>
<td>Qi K, Beijing, China.</td>
<td>Investigation on the epigenetic markers of childhood obesity and their associations with early nutrition.</td>
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<tr>
<td>150</td>
<td>2014-33</td>
<td>Cummings C, Newcastle upon Tyne, UK.</td>
<td>Understanding how probiotics and feeding choices affect the preterm infant microbiome and metabolome.</td>
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<tr>
<td>151</td>
<td>2014-53</td>
<td>Jaeggi T, Zurich, Switzerland.</td>
<td>Microbiota analysis in Pakistan children supplemented with MNPs containing Fe and Zn.</td>
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<td>152</td>
<td>2015-07</td>
<td>Lee J-Y, Storrs (CT), USA.</td>
<td>Mechanistic understanding of the effect of cranberries on HDL metabolism.</td>
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<td>153</td>
<td>2015-10</td>
<td>Van Ginkel D, Groningen, Netherlands.</td>
<td>The genetics of food allergy.</td>
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<tr>
<td>157</td>
<td>2015-26</td>
<td>Pisani D, Nice, France.</td>
<td>Control of white to brown adipocyte conversion by dietary metabolites of ω6 and ω3 polyunsaturated fatty acids.</td>
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<tr>
<td>158</td>
<td>2015-30</td>
<td>Ley D, Lille, France.</td>
<td>Control of white to brown adipocyte conversion by dietary metabolites of ω6 and ω3 polyunsaturated fatty acids.</td>
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<tr>
<td>161</td>
<td>2015-59</td>
<td>Biagetti V, Ancona, Italy.</td>
<td>Effect of increasing protein and energy intakes with and without physical activity stimulation on the weight gain and body composition of extremely low birth weight infants: A Pilot Study.</td>
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<td>164</td>
<td>2016-23</td>
<td><strong>Prodam F.</strong> Novara, Italy.</td>
<td>Efficacy of the treatment with Bifidobacterium Breve B632 and B Breve BR03 on endocrine response to the oral glucose tolerance test in pediatric obesity</td>
</tr>
<tr>
<td>165</td>
<td>2016-33</td>
<td><strong>Brouwers M.</strong> Maastricht, Netherlands.</td>
<td>Cardiometabolic consequences of fructose restriction in humans – a randomized controlled trial</td>
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<tr>
<td>166</td>
<td>2016-36</td>
<td><strong>Schofield H.</strong> Philadelphia, USA.</td>
<td>Causes and consequences of low caloric intake in India: nutrition, productivity and cognition</td>
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<tr>
<td>167</td>
<td>2016-58</td>
<td><strong>Achamrah N.</strong> Rouen, France.</td>
<td>Maintaining adapted physical activity during refeeding in anorectic mammals: good or evil?</td>
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<tr>
<td>168</td>
<td>2016-64</td>
<td><strong>Kirjavainen P.</strong> Kuopio, Finland.</td>
<td>Breast-milk microbiome and the development of allergies and asthma in childhood</td>
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<tr>
<td>169</td>
<td>2016-74</td>
<td><strong>Vlieger, A.</strong> Nieuwegein, Netherlands.</td>
<td>The INCA study (Intestinal microbiota Composition after Antibiotic treatment in early life) and the role of early life nutrition</td>
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