

## DOHaD 関連サイト・文献

### ウェブサイト

- (1) 日本 DOHaD 研究会  
<http://square.umin.ac.jp/Jp-DOHaD/>  
<http://japan-dohad.kenkyukai.jp/about/>
- (2) 国際 DOHaD 学会 (International Society for Developmental Origins of Health & Disease)  
<http://www.mrc.soton.ac.uk/dohad/index.asp>
- (3) 第 8 回国際 DOHaD 学会 (DOHaD 2013)  
<http://www.dohad2013.org/>
- (4) バーカー説 (The Barker Theory - A Foundation for a Lifetime)  
<http://www.thebarkertheory.org/>

### 単行本

- (1) 板橋 家頭夫, 松田 義雄 (編集) : DOHaD その基礎と臨床—生活習慣病の根源を探る : 胎生期から乳児期までの環境と成人期の健康問題. 金原出版 (2008)
- (2) Paul AM. *Origins: How the Nine Months Before Birth Shape the Rest of Our Lives*. Free Press (2010)
- (3) Newnham JP, Ross MG. *Early Life Origins of Human Health and Disease*. S Karger Pub (2009)
- (4) Gluckman P, Hanson M. *Developmental Origins of Health and Disease*. Cambridge University Press (2006)

### 論文

- (1) Barker DJ, Lampl M, Roseboom T, Winder N. Resource allocation in utero and health in later life. *Placenta*. 2012 Jul 16.
- (2) Barouki R, Gluckman PD, Grandjean P, Hanson M, Heindel JJ. Developmental origins of non-communicable disease: Implications for research and public health. *Environ Health*. 2012 Jun 27;11:42.
- (3) Walker CL, Ho SM. Developmental reprogramming of cancer susceptibility. *Nat Rev Cancer*. 2012 Jun 14;12(7):479-86.
- (4) Vignini A, Raffaelli F, Cester A, Iannilli A, Cherubini V, Mazzanti L, Nanetti L. Environmental and genetical aspects of the link between pregnancy, birth size, and type 2 diabetes. *Curr Diabetes Rev*. 2012 May 1;8(3):155-61.
- (5) Barker DJ. Sir Richard Doll Lecture. Developmental origins of chronic disease. *Public Health*. 2012 Mar;126(3):185-9.
- (6) Fleming TP, Velazquez MA, Eckert JJ, Lucas ES, Watkins AJ. Nutrition of females during the peri-conceptional period and effects on foetal programming and health of offspring. *Anim Reprod Sci*. 2012 Feb;130(3-4):193-7.
- (7) Fox DA, Grandjean P, de Groot D, Paule MG. Developmental origins of adult diseases and neurotoxicity: Epidemiological and experimental studies. *Neurotoxicology*. 2012 Jan 10.

- (8) Rinaudo P, Wang E. Fetal programming and metabolic syndrome. *Annu Rev Physiol.* 2012;74:107-30.
- (9) Duijts L. Fetal and infant origins of asthma. *Eur J Epidemiol.* 2012 Jan;27(1):5-14.
- (10) Gabory A, Attig L, Junien C. Developmental programming and epigenetics. *Am J Clin Nutr.* 2011 Dec;94(6 Suppl):1943S-1952S.
- (11) Uauy R, Kain J, Corvalan C. How can the Developmental Origins of Health and Disease (DOHaD) hypothesis contribute to improving health in developing countries? *Am J Clin Nutr.* 2011 Dec;94(6 Suppl):1759S-1764S.
- (12) Hanson M, Gluckman P. Developmental origins of noncommunicable disease: population and public health implications. *Am J Clin Nutr.* 2011 Dec;94(6 Suppl):1754S-1758S.
- (13) Wojtyła A. Application of the hypothesis of Developmental Origin of Health and Diseases (DOHaD) in epidemiological studies of women at reproductive age and pregnant women in Poland. *Ann Agric Environ Med.* 2011 Dec;18(2):355-64.
- (14) Bloomfield FH. Epigenetic modifications may play a role in the developmental consequences of early life events. *J Neurodev Disord.* 2011 Dec;3(4):348-55.
- (15) Canani RB, Costanzo MD, Leone L, Bedogni G, Brambilla P, Cianfarani S, Nobili V, Pietrobelli A, Agostoni C. Epigenetic mechanisms elicited by nutrition in early life. *Nutr Res Rev.* 2011 Dec;24(2):198-205.
- (16) Hanson MA, Gluckman PD. Developmental origins of health and disease: moving from biological concepts to interventions and policy. *Int J Gynaecol Obstet.* 2011 Nov;115 Suppl 1:S3-5.
- (17) Gabory A, Attig L, Junien C. Epigenetic mechanisms involved in developmental nutritional programming. *World J Diabetes.* 2011 Oct 15;2(10):164-75.
- (18) Rogers LK, Velten M. Maternal inflammation, growth retardation, and preterm birth: insights into adult cardiovascular disease. *Life Sci.* 2011 Sep 26;89(13-14):417-21.
- (19) Vieau D. Perinatal nutritional programming of health and metabolic adult disease. *World J Diabetes.* 2011 Sep 15;2(9):133-6.
- (20) Ogawa T, Rakwal R, Shibato J, Sawa C, Saito T, Murayama A, Kuwagata M, Kageyama H, Yagi M, Satoh K, Shioda S. Seeking gene candidates responsible for developmental origins of health and disease. *Congenit Anom (Kyoto).* 2011 Sep;51(3):110-25.
- (21) Van den Bergh BR. Developmental programming of early brain and behavior development and mental health: a conceptual framework. *Dev Med Child Neurol.* 2011 Sep;53 Suppl 4:19-23.
- (22) Feltes BC, de Faria Poloni J, Bonatto D. The developmental aging and origins of health and disease hypotheses explained by different protein networks. *Biogerontology.* 2011 Aug;12(4):293-308.
- (23) Hanson M, Godfrey KM, Lillycrop KA, Burdge GC, Gluckman PD. Developmental plasticity and developmental origins of non-communicable disease: theoretical considerations and epigenetic mechanisms. *Prog Biophys Mol Biol.* 2011 Jul;106(1):272-80.
- (24) McKay JA, Waltham KJ, Williams EA, Mathers JC. Folate depletion during pregnancy and lactation reduces genomic DNA methylation in murine adult offspring. *Genes Nutr.* 2011 May;6(2):189-96.
- (25) Bermejo-Alvarez P, Rizos D, Lonergan P, Gutierrez-Adan A. Transcriptional sexual dimorphism during preimplantation embryo development and its consequences for developmental competence and

- adult health and disease. *Reproduction*. 2011 May;141(5):563-70.
- (26) Cagampang FR, Poore KR, Hanson MA. Developmental origins of the metabolic syndrome: body clocks and stress responses. *Brain Behav Immun*. 2011 Feb;25(2):214-20.
- (27) Marco EM, Macrì S, Laviola G. Critical age windows for neurodevelopmental psychiatric disorders: evidence from animal models. *Neurotox Res*. 2011 Feb;19(2):286-307.
- (28) Salonen MK, Kajantie E, Osmond C, Forsén T, Ylihärsilä H, Paile-Hyvärinen M, Barker DJ, Eriksson JG. Developmental origins of physical fitness: the Helsinki Birth Cohort Study. *PLoS One*. 2011;6(7):e22302.
- (29) Goudochnikov VI. The role of glucocorticoids in aging and age-related pharmacotherapy. *Adv Gerontol*. 2011;24(1):48-53.
- (30) Tanabe K, Tamakoshi K, Murotsuki J. Association of women's birth weight with their blood pressure during pregnancy and with the body size of their babies. *Tohoku J Exp Med*. 2011;224(4):287-92.
- (31) Lanham SA, Roberts C, Hollingworth T, Sreekumar R, Elahi MM, Cagampang FR, Hanson MA, Oreffo RO. Maternal high-fat diet: effects on offspring bone structure. *Osteoporos Int*. 2010 Oct;21(10):1703-14.
- (32) Kanaka-Gantenbein C. Fetal origins of adult diabetes. *Ann N Y Acad Sci*. 2010 Sep;1205:99-105.
- (33) Bourguignon JP, Parent AS. Early homeostatic disturbances of human growth and maturation by endocrine disrupters. *Curr Opin Pediatr*. 2010 Aug;22(4):470-7.
- (34) Poore KR, Boullin JP, Cleal JK, Newman JP, Noakes DE, Hanson MA, Green LR. Sex- and age-specific effects of nutrition in early gestation and early postnatal life on hypothalamo-pituitary-adrenal axis and sympathoadrenal function in adult sheep. *J Physiol*. 2010 Jun 15;588(Pt 12):2219-37.
- (35) Attig L, Gabory A, Junien C. Early nutrition and epigenetic programming: chasing shadows. *Curr Opin Clin Nutr Metab Care*. 2010 May;13(3):284-93.
- (36) Godfrey KM, Gluckman PD, Hanson MA. Developmental origins of metabolic disease: life course and intergenerational perspectives. *Trends Endocrinol Metab*. 2010 Apr;21(4):199-205.
- (37) Bruce KD, Hanson MA. The developmental origins, mechanisms, and implications of metabolic syndrome. *J Nutr*. 2010 Mar;140(3):648-52.
- (38) Hall JG. Review and hypothesis: syndromes with severe intrauterine growth restriction and very short stature--are they related to the epigenetic mechanism(s) of fetal survival involved in the developmental origins of adult health and disease? *Am J Med Genet A*. 2010 Feb;152A(2):512-27.
- (39) Gluckman PD, Hanson MA, Mitchell MD. Developmental origins of health and disease: reducing the burden of chronic disease in the next generation. *Genome Med*. 2010 Feb 24;2(2):14.
- (40) Räikkönen K, Pesonen AK. Early life origins of psychological development and mental health. *Scand J Psychol*. 2009 Dec;50(6):583-91.
- (41) Krause B, Sobrevia L, Casanello P. Epigenetics: new concepts of old phenomena in vascular physiology. *Curr Vasc Pharmacol*. 2009 Oct;7(4):513-20.
- (42) Barker DJ, Osmond C, Kajantie E, Eriksson JG. Growth and chronic disease: findings in the Helsinki Birth Cohort. *Ann Hum Biol*. 2009 Sep-Oct;36(5):445-58.

- (43) Nelson RG. Adult health outcomes and their implications for experiences of childhood nutritional stress in Jamaica. *Am J Hum Biol.* 2009 Sep-Oct;21(5):671-8.
- (44) Swanson JM, Entringer S, Buss C, Wadhwa PD. Developmental origins of health and disease: environmental exposures. *Semin Reprod Med.* 2009 Sep;27(5):391-402.
- (45) Wadhwa PD, Buss C, Entringer S, Swanson JM. Developmental origins of health and disease: brief history of the approach and current focus on epigenetic mechanisms. *Semin Reprod Med.* 2009 Sep;27(5):358-68.
- (46) Elahi MM, Cagampang FR, Mukhtar D, Anthony FW, Ohri SK, Hanson MA. Long-term maternal high-fat feeding from weaning through pregnancy and lactation predisposes offspring to hypertension, raised plasma lipids and fatty liver in mice. *Br J Nutr.* 2009 Aug;102(4):514-9.
- (47) McMullen S, Mostyn A. Animal models for the study of the developmental origins of health and disease. *Proc Nutr Soc.* 2009 Aug;68(3):306-20.
- (48) Gluckman PD, Hanson MA, Buklijas T, Low FM, Beedle AS. Epigenetic mechanisms that underpin metabolic and cardiovascular diseases. *Nat Rev Endocrinol.* 2009 Jul;5(7):401-8.
- (49) Gluckman PD, Hanson MA, Bateson P, Beedle AS, Law CM, Bhutta ZA, Anokhin KV, Bougnères P, Chandak GR, Dasgupta P, Smith GD, Ellison PT, Forrester TE, Gilbert SF, Jablonka E, Kaplan H, Prentice AM, Simpson SJ, Uauy R, West-Eberhard MJ. Towards a new developmental synthesis: adaptive developmental plasticity and human disease. *Lancet.* 2009 May 9;373(9675):1654-7.
- (50) Solomons NW. Developmental origins of health and disease: concepts, caveats, and consequences for public health nutrition. *Nutr Rev.* 2009 May;67 Suppl 1:S12-6.
- (51) Kuzawa CW, Sweet E. Epigenetics and the embodiment of race: developmental origins of US racial disparities in cardiovascular health. *Am J Hum Biol.* 2009 Jan-Feb;21(1):2-15.
- (52) Cooper C, Harvey N, Cole Z, Hanson M, Dennison E. Developmental origins of osteoporosis: the role of maternal nutrition. *Adv Exp Med Biol.* 2009;646:31-9.
- (53) Gilbert JS, Nijland MJ. Sex differences in the developmental origins of hypertension and cardiorenal disease. *Am J Physiol Regul Integr Comp Physiol.* 2008 Dec;295(6):R1941-52.
- (54) Sellayah D, Sek K, Anthony FW, Watkins AJ, Osmond C, Fleming TP, Hanson MA, Cagampang FR. Appetite regulatory mechanisms and food intake in mice are sensitive to mismatch in diets between pregnancy and postnatal periods. *Brain Res.* 2008 Oct 27;1237:146-52.
- (55) Rodford JL, Torrens C, Siow RC, Mann GE, Hanson MA, Clough GF. Endothelial dysfunction and reduced antioxidant protection in an animal model of the developmental origins of cardiovascular disease. *J Physiol.* 2008 Oct 1;586(Pt 19):4709-20.
- (56) Yajnik CS, Deshmukh US. Maternal nutrition, intrauterine programming and consequential risks in the offspring. *Rev Endocr Metab Disord.* 2008 Sep;9(3):203-11.
- (57) Rinaudo PF, Lamb J. Fetal origins of perinatal morbidity and/or adult disease. *Semin Reprod Med.* 2008 Sep;26(5):436-45.
- (58) Bezek S, Ujházy E, Mach M, Navarová J, Dubovický M. Developmental origin of chronic diseases: toxicological implication. *Interdiscip Toxicol.* 2008 Jun;1(1):29-31.
- (59) Kajantie E. Early-life events. Effects on aging. *Hormones (Athens).* 2008 Apr-Jun;7(2):101-13.

- (60) Bertram C, Khan O, Ohri S, Phillips DI, Matthews SG, Hanson MA. Transgenerational effects of prenatal nutrient restriction on cardiovascular and hypothalamic-pituitary-adrenal function. *J Physiol*. 2008 Apr 15;586(8):2217-29.
- (61) Elahi MM, Cagampang FR, Anthony FW, Curzen N, Ohri SK, Hanson MA. Statin treatment in hypercholesterolemic pregnant mice reduces cardiovascular risk factors in their offspring. *Hypertension*. 2008 Apr;51(4):939-44.
- (62) Lanham SA, Roberts C, Perry MJ, Cooper C, Oreffo RO. Intrauterine programming of bone. Part 2: alteration of skeletal structure. *Osteoporos Int*. 2008 Feb;19(2):157-67.
- (63) Hanson MA, Gluckman PD. Developmental origins of health and disease: new insights. *Basic Clin Pharmacol Toxicol*. 2008 Feb;102(2):90-3.
- (64) Moritz KM, Wintour EM, Black MJ, Bertram JF, Caruana G. Factors influencing mammalian kidney development: implications for health in adult life. *Adv Anat Embryol Cell Biol*. 2008;196:1-78.
- (65) Armitage JA, Poston L, Taylor PD. Developmental origins of obesity and the metabolic syndrome: the role of maternal obesity. *Front Horm Res*. 2008;36:73-84.
- (66) Silveira PP, Portella AK, Goldani MZ, Barbieri MA. Developmental origins of health and disease (DOHaD). *J Pediatr (Rio J)*. 2007 Nov-Dec;83(6):494-504.
- (67) Cleal JK, Poore KR, Newman JP, Noakes DE, Hanson MA, Green LR. The effect of maternal undernutrition in early gestation on gestation length and fetal and postnatal growth in sheep. *Pediatr Res*. 2007 Oct;62(4):422-7.
- (68) Vickers MH, Krechowec SO, Breier BH. Is later obesity programmed in utero? *Curr Drug Targets*. 2007 Aug;8(8):923-34.
- (69) Burdge GC, Hanson MA, Slater-Jefferies JL, Lillycrop KA. Epigenetic regulation of transcription: a mechanism for inducing variations in phenotype (fetal programming) by differences in nutrition during early life? *Br J Nutr*. 2007 Jun;97(6):1036-46.
- (70) Grün F, Blumberg B. Perturbed nuclear receptor signaling by environmental obesogens as emerging factors in the obesity crisis. *Rev Endocr Metab Disord*. 2007 Jun;8(2):161-71.
- (71) Wells JC. Environmental quality, developmental plasticity and the thrifty phenotype: a review of evolutionary models. *Evol Bioinform Online*. 2007 Jun 19;3:109-20.
- (72) Gluckman PD, Hanson MA. Developmental plasticity and human disease: research directions. *J Intern Med*. 2007 May;261(5):461-71.
- (73) Barker DJ. The origins of the developmental origins theory. *J Intern Med*. 2007 May;261(5):412-7.
- (74) Gillman MW, Barker D, Bier D, Cagampang F, Challis J, Fall C, Godfrey K, Gluckman P, Hanson M, Kuh D, Nathanielsz P, Nestel P, Thornburg KL. Meeting report on the 3rd International Congress on Developmental Origins of Health and Disease (DOHaD). *Pediatr Res*. 2007 May;61(5 Pt 1):625-9.
- (75) Godfrey KM, Lillycrop KA, Burdge GC, Gluckman PD, Hanson MA. Epigenetic mechanisms and the mismatch concept of the developmental origins of health and disease. *Pediatr Res*. 2007 May;61(5 Pt 2):5R-10R.
- (76) Bateson P. Developmental plasticity and evolutionary biology. *J Nutr*. 2007 Apr;137(4):1060-2.
- (77) Burdge GC, Slater-Jefferies J, Torrens C, Phillips ES, Hanson MA, Lillycrop KA. Dietary protein

- restriction of pregnant rats in the F0 generation induces altered methylation of hepatic gene promoters in the adult male offspring in the F1 and F2 generations. *Br J Nutr.* 2007 Mar;97(3):435-9.
- (78) Benyshek DC. The developmental origins of obesity and related health disorders--prenatal and perinatal factors. *Coll Antropol.* 2007 Mar;31(1):11-7.
- (79) Gluckman PD, Hanson MA, Beedle AS. Non-genomic transgenerational inheritance of disease risk. *Bioessays.* 2007 Feb;29(2):145-54.
- (80) Newnham JP. The developmental origins of health and disease (DOHaD) - why it is so important to those who work in fetal medicine. *Ultrasound Obstet Gynecol.* 2007 Feb;29(2):121-3.
- (81) Danese A, Pariante CM, Caspi A, Taylor A, Poulton R. Childhood maltreatment predicts adult inflammation in a life-course study. *Proc Natl Acad Sci U S A.* 2007 Jan 23;104(4):1319-24.
- (82) Gluckman PD, Hanson MA, Beedle AS. Early life events and their consequences for later disease: a life history and evolutionary perspective. *Am J Hum Biol.* 2007 Jan-Feb;19(1):1-19.
- (83) Waterland RA, Michels KB. Epigenetic epidemiology of the developmental origins hypothesis. *Annu Rev Nutr.* 2007;27:363-88.
- (84) Sinclair KD, Lea RG, Rees WD, Young LE. The developmental origins of health and disease: current theories and epigenetic mechanisms. *Soc Reprod Fertil Suppl.* 2007;64:425-43.
- (85) Sinclair KD, Singh R. Modelling the developmental origins of health and disease in the early embryo. *Theriogenology.* 2007 Jan 1;67(1):43-53.
- (86) Barker DJ, Bagby SP, Hanson MA. Mechanisms of disease: in utero programming in the pathogenesis of hypertension. *Nat Clin Pract Nephrol.* 2006 Dec;2(12):700-7.
- (87) Barker D. Commentary: birthweight and coronary heart disease in a historical cohort. *Int J Epidemiol.* 2006 Aug;35(4):886-7.
- (88) Painter RC, de Rooij SR, Bossuyt PM, Simmers TA, Osmond C, Barker DJ, Bleker OP, Roseboom TJ. Early onset of coronary artery disease after prenatal exposure to the Dutch famine. *Am J Clin Nutr.* 2006 Aug;84(2):322-7; quiz 466-7.
- (89) Musha Y, Itoh S, Hanson MA, Kinoshita K. Does estrogen affect the development of abnormal vascular function in offspring of rats fed a low-protein diet in pregnancy? *Pediatr Res.* 2006 Jun;59(6):784-9.
- (90) Torrens C, Brawley L, Anthony FW, Dance CS, Dunn R, Jackson AA, Poston L, Hanson MA. Folate supplementation during pregnancy improves offspring cardiovascular dysfunction induced by protein restriction. *Hypertension.* 2006 May;47(5):982-7.
- (91) Bolin CM, Basha R, Cox D, Zawia NH, Maloney B, Lahiri DK, Cardozo-Pelaez F. Exposure to lead and the developmental origin of oxidative DNA damage in the aging brain. *FASEB J.* 2006 Apr;20(6):788-90.
- (92) Nathanielsz PW, Padmanabhan V. Developmental origin of health and disease. *J Physiol.* 2006 Apr 1;572(Pt 1):3-4.
- (93) Cooper C, Westlake S, Harvey N, Javaid K, Dennison E, Hanson M. Review: developmental origins of osteoporotic fracture. *Osteoporos Int.* 2006;17(3):337-47.
- (94) Barker DJ, Osmond C, Forsén TJ, Kajantie E, Eriksson JG. Trajectories of growth among children

- who have coronary events as adults. *N Engl J Med*. 2005 Oct 27;353(17):1802-9.
- (95) Barker DJ, Bagby SP. Developmental antecedents of cardiovascular disease: a historical perspective. *J Am Soc Nephrol*. 2005 Sep;16(9):2537-44.
- (96) Khan OA, Shearman C. Is there a fetal origin of peripheral vascular disease? *Heart*. 2005 Jul;91(7):869-70.
- (97) Hanson M, Gluckman P. Endothelial dysfunction and cardiovascular disease: the role of predictive adaptive responses. *Heart*. 2005 Jul;91(7):864-6.
- (98) Gluckman PD, Hanson MA, Pinal C. The developmental origins of adult disease. *Matern Child Nutr*. 2005 Jul;1(3):130-41.
- (99) Hanson MA, Gluckman PD. Developmental processes and the induction of cardiovascular function: conceptual aspects. *J Physiol*. 2005 May 15;565(Pt 1):27-34.
- (100) Gluckman PD, Hanson MA, Spencer HG, Bateson P. Environmental influences during development and their later consequences for health and disease: implications for the interpretation of empirical studies. *Proc Biol Sci*. 2005 Apr 7;272(1564):671-7.
- (101) Barker DJ, Eriksson JG, Forsén T, Osmond C. Infant growth and income 50 years later. *Arch Dis Child*. 2005 Mar;90(3):272-3.
- (102) Haugen G, Hanson M, Kiserud T, Crozier S, Inskip H, Godfrey KM. Fetal liver-sparing cardiovascular adaptations linked to mother's slimness and diet. *Circ Res*. 2005 Jan 7;96(1):12-4.
- (103) Zhang J, Wang C, Terroni PL, Cagampang FR, Hanson M, Byrne CD. High-unsaturated-fat, high-protein, and low-carbohydrate diet during pregnancy and lactation modulates hepatic lipid metabolism in female adult offspring. *Am J Physiol Regul Integr Comp Physiol*. 2005 Jan;288(1):R112-8.
- (104) Gluckman PD, Hanson MA, Morton SM, Pinal CS. Life-long echoes--a critical analysis of the developmental origins of adult disease model. *Biol Neonate*. 2005;87(2):127-39.
- (105) Gluckman PD, Cutfield W, Hofman P, Hanson MA. The fetal, neonatal, and infant environments-the long-term consequences for disease risk. *Early Hum Dev*. 2005 Jan;81(1):51-9.
- (106) Barker DJ. The developmental origins of insulin resistance. *Horm Res*. 2005;64 Suppl 3:2-7.
- (107) Barker DJ, Hanson MA. Altered regional blood flow in the fetus: the origins of cardiovascular disease? *Acta Paediatr*. 2004 Dec;93(12):1559-60.
- (108) Barker DJ. The developmental origins of chronic adult disease. *Acta Paediatr Suppl*. 2004 Dec;93(446):26-33.
- (109) Gluckman P, Hanson M. Echoes of the past: Evolution, development, health and disease. *Discov Med*. 2004 Dec;4(24):401-7.
- (110) Barker DJ. The developmental origins of adult disease. *J Am Coll Nutr*. 2004 Dec;23(6 Suppl):588S-595S.
- (111) Barker DJ. The developmental origins of well-being. *Philos Trans R Soc Lond B Biol Sci*. 2004 Sep 29;359(1449):1359-66.
- (112) Gluckman PD, Hanson MA. Living with the past: evolution, development, and patterns of disease. *Science*. 2004 Sep 17;305(5691):1733-6.

- (113) Gluckman PD, Hanson MA. Developmental origins of disease paradigm: a mechanistic and evolutionary perspective. *Pediatr Res*. 2004 Sep;56(3):311-7.
- (114) Bateson P, Barker D, Clutton-Brock T, Deb D, D'Udine B, Foley RA, Gluckman P, Godfrey K, Kirkwood T, Lahr MM, McNamara J, Metcalfe NB, Monaghan P, Spencer HG, Sultan SE. Developmental plasticity and human health. *Nature*. 2004 Jul 22;430(6998):419-21.
- (115) Hanson M, Gluckman P, Bier D, Challis J, Fleming T, Forrester T, Godfrey K, Nestel P, Yajnik C. Report on the 2nd World Congress on Fetal Origins of Adult Disease, Brighton, U.K., June 7-10, 2003. *Pediatr Res*. 2004 May;55(5):894-7.
- (116) Gluckman PD, Hanson MA. The developmental origins of the metabolic syndrome. *Trends Endocrinol Metab*. 2004 May-Jun;15(4):183-7.
- (117) Barker DJ. Developmental origins of adult health and disease. *J Epidemiol Community Health*. 2004 Feb;58(2):114-5.
- (118) Barker D. The midwife, the coincidence, and the hypothesis. *BMJ*. 2003 Dec 20;327(7429):1428-30.
- (119) Barker DJ. Commentary: Developmental origins of raised serum cholesterol. *Int J Epidemiol*. 2003 Oct;32(5):876-7.
- (120) Barker DJ. The developmental origins of adult disease. *Eur J Epidemiol*. 2003;18(8):733-6.
- (121) Barker DJ. Coronary heart disease: a disorder of growth. *Horm Res*. 2003;59 Suppl 1:35-41.
- (122) Barker DJ, Eriksson JG, Forsén T, Osmond C. Fetal origins of adult disease: strength of effects and biological basis. *Int J Epidemiol*. 2002 Dec;31(6):1235-9.
- (123) Vickers MH, Breier BH, Cutfield WS, Hofman PL, Gluckman PD. Fetal origins of hyperphagia, obesity, and hypertension and postnatal amplification by hypercaloric nutrition. *Am J Physiol Endocrinol Metab*. 2000 Jul;279(1):E83-7.