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Regulators of growth plate maturation

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Curriculum Vitae

Curriculum vitae

Joyce Adriana Mathilde Emons was born on the 26th of February, 1977 in Berkel en Rodenrijs, the Netherlands. She attended secondary school at the "Sint Laurens College" in Rotterdam, where she passed her exam in 1995. In the same year she started her study Biology at the University of Leiden. In the academic years 1997- 2001 she specialized in Medical Biology. In 1998 she started a second study at the Faculty of Medicine of the Leiden University Medical Center. From May 2000 till February 2001 she carried out a research project at the Departments of Endocrinology & Metabolism and the Department of Pediatrics of the Leiden University Medical Center (supervisors Dr. B. van der Eerden and Dr. M. Karperien). In March 2001 she received her Medical Biology degree and two years later in March 2003 her medical degree, cum laude. From February 2003 till August 2004 she worked as a research fellow at the Growth and Development Department of the National Institutes of Health in Bethesda, Maryland, USA, subsidized by a grant of the Ter Meulen Foundation (Supervisor Dr. J. Baron). From August 2004 till June 2005 she continued her research project at the Department of Pediatrics of the Leiden University Medical Center (supervisors Prof. Dr. J.M. Wit and Dr. M. Karperien). After almost 2 years of research she started in June 2005 her AGIKO (AIOSKO) program, i.e. a combined residency in Pediatrics and PhD scholarship, in the Leiden University Medical Center. In March 2006 she was a research fellow in the Pediatric Endocrinology Unit of the Karoliska Institutet in Stockholm, Sweden, subsidized by an ESPE visiting scholarship. From March 2007 till September 2008 she worked as a resident in the "Reinier de Graaf Gasthuis" in Delft (head: Dr.N.van der Lely), followed by a research fellowship until September 2009, and a continuation of her pediatric residency in the Leiden University Medical Center (head: Prof.dr.H.A.Delemarre-van de Waal).

LIST OF PUBLICATIONS

List of publications

1. **van der Eerden BC, Emons J, Ahmed S, van Essen HW, Löwik CW, Wit JM, Karperien M** 2002 Evidence for genomic and non-genomic actions of estrogen in growth plate regulation in female and male rats at the onset of sexual maturation. *J Endocrinol* 175(2):277-288
2. **Emons JAM, Boersma B, Baron J, Wit JM** 2005 The pattern of catch-up growth in celiac disease is consistent with the hypothesis of delayed growth plate senescence. *Journal of Pediatrics* 147(6):843-6.
3. **Emons JAM, Marino R, Nilsson O, Barnes KM, Chatterjee NA, Karperien M, Wit JM, Baron J** 2006 The role of p27 kip1 in the regulation of growth plate chondrocytes Proliferation. *Pediatr Res.* 2006 Sep;60(3):288-93.
4. **Schrier L, Ferns SP, Barnes KM, Emons JAM, Newman E, Nilsson O, Baron J** 2006 Depletion of resting zone chondrocytes during growth plate senescence. *J Endocrinol.* Apr;189(1):27-36.
5. **Emons JAM, Phillip M, Wit JM, Savendahl L.** The Sixth ESPE Growth Plate Working Group Symposium (EUROGROP), June 30th, Rotterdam, the Netherlands, "a multidisciplinary approach to growth plate biology. *Pediatr Endocrinol Rev.* 2006 Dec-2007 Jan;4(2):153-9
6. **Bernardo ME, Emons JAM, Nauta AJ, Roelofs H, Karperien, Kleijburg C, Romeo S, Locatelli F, Willemze R, Fibbe WE** Human mesenchymal stem cells derived from bone marrow display a better chondrogenic differentiation compared with other sources. *Connect Tissue Res.* 2007;48(3):132-40.
7. **Marchini A, Häcker B, Marttila T, Hesse V, Emons J, Weiss B, Karperien M, Rappold G.** BNP is a transcriptional target of the short stature homeobox gene SHOX. *Hum Mol Genet.* 2007 Dec 15;16(24):3081-7. Epub 2007 Sep 19.
8. **Rose Marino, Anita Hegde, Kevin Barnes, Lenneke Schrier, Joyce Emons, Ola Nilsson, Jeffrey Baron** Evidence that catch-up growth after hypothyroidism is caused by delayed growth plate senescence. *Endocrinology.* 2008 Jan 3;
9. **Emons JAM, Chagin A, Hultenby K, Wit JM, Karperien M, Savendahl L** Epiphyseal fusion in the human growth plate does not involve classical apoptosis. *Pediatr Res.* 2009 Dec;66(6):654-9
10. **Emons JAM*, van Gool S*, Decker E, Yu X, van Houwelingen H, Kleijburg C, Scherjon S, Gretz N, Wit JM, Rappold G, Karperien M** Human mesenchymal stem cells as a model for chondrocyte differentiation. *Submitted. Matrix Biology.* * = equal authorschip
11. **Emons JAM, Chagin A, Malmhof T, Lekman M, Wit JM, Karperien M, Savendahl L** Estradiol stimulates growth plate expression of VEGF; a potential mechanism for estrogen-induced growth plate closure in humans. *Submitted. J. Endocrinology.*

12. **Emons JAM, Decker E, Yu X, Pirzer H, van Gool S, Chagin A, Savendahl L, Gretz N, Wit JM, Rappold G, Karperien M** Genome wide screening of two human growth plates during pubertal development. *In preparation*

