
Curriculum Vitae

Naam: Philippe Debeer
Geboortedatum: Baltimore (USA) 21 december 1967
Functie: Orthopedisch chirurg
Bovenste lidmaat

Studies:

Promotie tot 'Arts': 1992 K.U.Leuven

Promotie tot 'Orthopedisch chirurg en Traumatologie': 2000 K.U.Leuven

Phd: 'Molecular analysis of a chromosomal aberration in patients with a complex type of synpolydactyly'
Laboratory for Molecular Oncology, Center for Human Genetics, University of Leuven,
Flanders Interuniversity Institute for Biotechnology, Herestraat 49, B-3000 Leuven, Belgium
Head: Prof. Dr. W.J.M. Van de Ven
K.U.Leuven, December 15th 1999

Promotie tot 'Professor in de Orthopedische chirurgie': 1999 K.U.Leuven

1988 – 1989: Initiation in microsurgery

UZ Leuven o.l.v. Prof Boeckx, Dep of Plastic and reconstructive surgery

1989 – 1990: Medical English

Residency:

Surgery	4 months in Stedelijk O.L.V.Ziekenhuis Mechelen, Belgium
Internal Medicine	4 months in Stedelijk O.L.V.Ziekenhuis Mechelen, Belgium
Gynaecology	2 months in Baragwanath Hospital, Johannesburg, South-Africa
Paediatrics	2 months in Frere Hospital, East London, South Africa

08.92 - 08.94: General Surgery; Sint Jozef Ziekenhuis Mechelen, Belgium (Dr. Brouwers)

08.94 - 08.95: Traumatology-Orthopaedic Surgery; Royal Devon and Exeter Hospital Wonford, United Kingdom (Dr. Jameson Evans)

08.95-08.2000: Orthopaedic Surgery, University Hospital Pellenberg (Prof. Fabry)

08.99 - present: Responsible for the shoulder pathology in the Department of Orthopaedic Surgery of the University Hospital in Pellenberg.

10.2003 – present: Present:Adjunct Kliniekhoofd Department of Orthopaedic Surgery

10.2006 – present: Deeltijds Hoofdcent K.U.Leuven

Research activities in the Department of Human Genetics of the University Hospital in Leuven. Research topics are Genetics and Orthopaedics, the Genetic Basis of Congenital Orthopaedic Malformations.

Research activities in the Department of Orthopaedic Surgery.

Wetenschappelijke lidmaatschappen:

- Belgische Vereniging Orthopedie en Traumatologie
- FLESSS (Flemish Elbow Shoulder Surgeons Society)
- SECEC (European Society for Surgery of the Shoulder and Elbow)

Wetenschappelijke awards:

- Winner of the "Pfizer Educational Grant 2000"
- Winner of the "Zimmer Research Award 2002"

Nationale en international presentaties/ Posters:

- Groenen, P.M.A., Vanderlinden, G., Van Esch, H., **Debeer, Ph.**, Devriendt, K., Fryns, J.-P., and Van de Ven, W.J.M. Disruption of the pombe CDC5 related protein in a fetus displaying severe kidney abnormalities. A novel gene in kidney development ? VIB Seminars, Flanders Expo, Gent, Belgium, June 18-19, 1997. (Poster)
- **Debeer, Ph.**, Schoenmakers, E.F.P.M., De Smet, L., Van de Ven, W.J.M., and Fryns, J.-P. Co-segregation of a t(12;22)(p11.2;q13.3) with a complex type of 3/3'/4 synpolydactyly associated with metacarpal, metatarsal and tarsal synostoses in three family members. 9th European Meeting on Dysmorphology, Strasbourg, France, September 3-4, 1998.
- **Debeer, Ph.**, Schoenmakers, E.F.P.M., Van de Ven, W.J.M., and Fryns, J.P. Molecular cloning of the breakpoint of a t(12;22)(p11.2;q13.3) involved in a complex type of synpolydactyly. Symposium 50th anniversary Dutch Anthropogenetic Society, Noordwijkerhout, The Netherlands, April 15-16, 1999.
- **Debeer, Ph.**, Decorte, R., Bellemans, J. DNA analysis of a transplanted cryopreserved meniscal allograft. 9th Conference of the European Orthopaedic Research Society, Brussels, Belgium, June 3-4, 1999.
- **Debeer, Ph.**, Schoenmakers, E.F.P.M., Fryns, J.-P., Fabry, G., and Van de Ven, W.J.M. Positional cloning of a novel gene affected in synpolydactyly. 9th Conference of the European Orthopaedic Research Society, Brussels, Belgium, June 3-4, 1999.
- **Debeer, Ph.**, Schoenmakers, E.F.P.M., De Smet, L., Van de Ven, W.J.M. and Fryns, J.-P. Positional cloning of genes involved in a complex type of synpolydactyly. 10th European Meeting on Dysmorphology, Strasbourg, France, August 27-28, 1999.
- Devriendt, K., Jaeken, J., Mattijs, G., Van Esch, H., **Debeer, Ph.**, Gewillig, M., Fryns, J.-P. Haploinsufficiency for the *HOXA*-Gene Cluster in a patient with hand-foot-genital syndrome, velo-pharyngeal insufficiency and persistent patent ductus botalli. 10th European Meeting on Dysmorphology, Strasbourg, France, August 27-28, 1999.
- 8. **Debeer, Ph.**, Schoenmakers, E.F.P.M., De Smet, L., Fabry, G., Van de Ven, W.J.M. and Fryns, J.-P. Gene hunting in central polydactyly. Advanced course on paediatric hand problems, Pellenberg, December 11, 1999.
- 9. **Debeer, Ph.**, De Smet, L., Schoenmakers, E.F.P.M., Van de Ven, W.J.M., Fryns, J.-P. and Fabry, G. Complex synpolydactyly associated with metacarpal and metatarsal synostoses: a new clinical entity ? The 5th International Symposium on Congenital Differences of the Upper Limb. Kyoto, Japan, May 8-9, 2000.

- 10. **Debeer, Ph.** Pathologie van de rotator cuff. Permanente Vorming Kinesitherapie. De Schouder. Leuven, November 18, 2000
- 11. Peeters, H., **Debeer Ph.**, Huysmans C., Parthoens E., Gewillig M., Van de Ven, W., Fryns and Devriendt, K. Recurrent involvement of chromosomal region 6q21 in heterotaxy.
VIB seminars, Blankenberge, March 8-9, 2001. (Poster)
- 12. Bacchelli, C., Goodman, F.R., **Debeer, Ph.**, Fryns, J.-P. and Scambler, P.J. Severe digital abnormalities in a patient heterozygous for mutations in both *HOXD13* and *HOXA13*.
British Human Genetics Conference 2001. York, UK, September 10-12, 2001. Journal of Medical Genetics 2001,38(suppl), 3.44
- 13. **Debeer, Ph.**, Goodman, F.R., Bacchelli, C., De Smet, L., Scambler, P.J. and Fryns, J.-P. A combination of mutations in both *HOXD13* and *HOXA13* results in severe digital and urogenital malformations.
12th European Meeting on Dysmorphology, Strasbourg, France, September 6-7, 2001.
- 14. Peeters, H., **Debeer, Ph.**, Devriendt, K., Matthijs, G., Kalff-Suske, M. and Fryns, J.-P.
Variable clinical findings in GLI3 morphopathies.
12th European Meeting on Dysmorphology, Strasbourg, France, September 6-7, 2001.
- **Debeer, Ph.**,
The *Fibulin-1* gene is disrupted in a t(12;22) associated with a complex type of synpolydactyly.
L.O.G., Utrecht, The Netherlands, December 20, 2001
- 16. **Debeer, Ph.**, Pykels, E., Lammens, J., Devriendt, K., and Fryns, J.-P. Melorheostosis in a family with autosomal dominant osteopoikilosis: report of a third family. 13th European Meeting on Dysmorphology, Strasbourg, France, September 5-7, 2002.
- 17. Goodman, F.R., **Debeer, Ph.**, van de Laar, I.M.B.H., Dennis, N.R., McKeown, C.M.E., Caronia, G., Zappavigna, V. and Scambler, P.J.
Amino acid substitutions in HOXA13 and HOXD13: novel phenotypes and mechanisms.
Manchester Birth Defect Conference 2002.
- Crow, Y., **Debeer, Ph.**, Goodman, F., Ali, M., Malik, S.
A large Pakistani consanguineous family demonstrating a remarkable hand/foot syndrome comprising synpoly- and ectro- dactyly.
British Human Genetics Conference. York, U.K., September 15-17, 2003. Journal Medical Genetics 2003, 40(Suppl1), 1.06.
- **Debeer, Ph.**, Huysmans, Ch., Van de Ven, W.J.M., Fryns, J.-P. and Devriendt, K. Novel clinical and molecular findings in patients with Noggin mutations.
14th European Meeting on Dysmorphology, Strasbourg, France, September 4-5, 2003.
- Peeters, H., **Debeer, Ph.**, Fryns, J.-P., Gewillig, M., Van de Ven, W.J.M. and Devriendt, K. PA26 is a candidate gene for heterotaxia in humans.
14th European Meeting on Dysmorphology, Strasbourg, France, September 4-5, 2003.
- **Debeer, Ph.** Chirurgie van de schouder bij reuma.
Reuma avond, UZ Leuven, January 13, 2004.
- **Debeer, Ph.** Pathologie en chirurgie van de schouder.
Lessenreeks Verpleegkundige Orthopedie. UZ Pellenberg, Belgium, January 13, 2004
- **Debeer, Ph.** Rotatorcuff tears (partial and full thickness).
OrthoConcepts, UZ Pellenberg, Belgium, January 23-24, 2004.

- Dimitrov, B., Scherer, G., Avdjieva, D., Hristova, E., Tulevska, Zahariev, D., Devriendt, K., **Debeer, Ph.**, Fryns, J.-P.
Campomelic dysplasia and somatic mosaicism: what we know about the phenotype.
6th Balkan Meeting on Human Genetics, Thessaloniki, Greece, August 28-31, 2004.
- Dimitrov, B., Wuyts, W., **Debeer, Ph.**, Avdjieva, D., Fryns, J.-P.
Metachondromatosis and multiple exostosis type I: a clinical spectrum.
15th European Meeting on Dysmorphology, Strasbourg, France, September 2-3, 2004.
- **Debeer, Ph.**, Brys, P., Huysmans, C., Devriendt, K., Van de Ven, W., Fryns, J.-P.
Severe vertebral anomalies in a patient with Holt-Oram syndrome and a TBX5 sequence variation.
5th Combined Meeting of the Orthopedic Research Societies of USA, Canada, Japan and Europe. Banff, Canada, October 10-13, 2004. (Poster)
- **Debeer, Ph.**, De Smet, L., Devriendt, K., Fryns, J.-P. The genetic basis of orthopedic malformations.
Orthopaedica Belgica 2004, Alden-Biesen, June 10-12, 2004. (Poster)
- **Debeer, Ph.**, Mols, R., Huysmans, Ch., Devriendt, K., Van de Ven, W.J.M., J.-P. Fryns. Involvement of AT rich regions on chromosome 22q in a constitutional t(X;22)(q27;q11). BeSHG, VUB Brussel, February 22, 2002. (Poster)
- Shrimpton, A.E., Levinsohn, E.M., **Debeer, Ph.**, Katz, D., Bryke, C., Cady, R.
HOXD10 gene screening in cases with Congenital Vertical Talus (CVT) or Charcot-Marie-Tooth (CMT) disease.
ASHG. 2004, Toronto, Canada, 26-30 October 2004. (Poster)
- J. Hellemans, L. Preobrazhenska, A. Willaert, **Ph. Debeer**, P. Verdonk, B. Menten, N. Van Roy, S. Vermeulen, T. Costa, R. Savarirayan, W. Van Hul, F. Vanhoenacker, D. Huylebroeck, A. De Paepe, JM. Naeyaer, F. Speleman, K. Verschueren, P. Coucke, G. Mortier. Loss of function mutations in MAN1 result in osteopoikilosis, Buschke-Ollendorff syndrome and melorheostosis.
ASHG. 2004, Toronto, Canada, 26-30 October 2004.
- **Debeer Ph.** Rotatorcuff chirurgie update. Postgraduaat Seminarie Fysische Geneeskunde en Revalidatie: Rotatorcuff pathologie. Leuven, 16 November 2004.
- J. Hellemans, L. Preobrazhenska, A. Willaert, **Ph. Debeer**, P. Verdonk, T. Costa, B. Menten, N. Van Roy, S. Vermeulen, R. Savarirayan, W. Van Hul, F. Vanhoenacker, D. Huylebroeck, A. De Paepe, JM. Naeyaer, J. Vandesompele, F. Speleman, K. Verschueren, P. Coucke, G. Mortier. Loss of function mutations in MAN1 result in osteopoikilosis, Buschke-Ollendorff syndrome and melorheostosis.
11th Manchester Birth Defects Conference, Manchester, 9-12 November 2004.
- Dimitrov, B., Balikova, I., Simeonov, E., Fryns, J.-P., **Debeer, Ph.** Microdeletion 2q31 – redefining the correlated clinical phenotype. European Human Genetics Conference 2005 Prague, 7-10 May 2005.
- Hellemans, J., **Debeer, Ph.**, Verdonk, P., Wright, M., De Paepe, A., Coucke, P., Mortier, G. Mutation analysis of LEMD3 in osteopoikilosis, Buschke-Ollendorff syndrome and melorheostosis patients. European Human Genetics Conference, Prague, 7-10 May 2005.
- **Debeer, Ph.**, Degreef, I., De Smet L.
Reanimation of the pseudo-paralytic limb using a latissimus dorsi transfer.
Impaired motion of the upper limb, Genval, 18-19 March 2005.

- Balikova, I., Bradinova, I., Avdjieva, D., Stojanov, V., Simeonov, E., Zaharief, D., Vermeesch, J., Devriendt, K., **Debeer, Ph.**, Fryns, J.-P. and Dimitrov, B. Widening the phenotype of WAGR syndrome and defining a new locus for preaxial polydactyly.
16th European Meeting on Dysmorphology, Strasbourg, France, September 8-10, 2005.
- **Debeer, Ph.**, Van Esch, H., Huysmans, C., Pijkels, E., De Smet, L., Van de Ven, W., Devriendt, K. and Fryns, J.-P. *GJA1* mutations in oculo-dento-digital dysplasia.
16th European Meeting on Dysmorphology, Strasbourg, France, September 8-10, 2005.
- **Debeer, Ph.**, Plasschaert, H., Stuyck, J. Resection arthroplasty of the shoulder, SECEC Rome 2005.
- Degreef, I., De Smet, L., **Debeer, Ph.**, Latissimus dorsi transfer, SECEC Rome 2005.
- Hellemans, J., **Debeer, Ph.**, Savarirayan, R., Verdonk, P., Roth, J., Janecke, A., Brooks, A., Basel-Vanagaite, L., Van Hul, W., Wright, M., Kjaer, K., Doherty, E., De Paepe, A., Coucke, P., Mortier, G. Mutation analysis of LEMD3 in osteopoikilosis, Buschke-Ollendorf syndrome and melorheostosis patients.
ISDS Meeting Martigny, 25-28 August 2005
- **Debeer, Ph.** Spiertransfers rond de schouder. OrthoConcepts Restoring Motion, Pellenberg, 20-21 January 2006
- **39. Debeer, Ph.** Functionele anatomie en patho-anatomie van de schouder. Leuvense Dagen voor Huisartsen, Pellenberg, 17-18-19 November 2005
- **Debeer, Ph.** Behandelingsmogelijkheden van rotator cuff scheuren. Leuvense Dagen voor Huisartsen, Pellenberg, 17-18-19 November 2005
- **Debeer, Ph.** Muscle transfers for massive rotator cuff tears
Orthopedica Belgica, Gent, 8-9 June 2006
- **Debeer, Ph.**, Tylzanowski, P., Bellon, E., De Smet, L., Fryns, J.-P., Luyten, F.
Disease and development of limbs and joints : From bedside to bench (Part 1-2-3)
Orthopedica Belgica, Gent, 8-9 June 2006
- Dimitrov, B., Hannes, F., Balikova, I., Vermeesch, J., de Ravel, T., **Debeer, Ph.**, Devriendt, K., Frijns, J.-P. Genetics of trigonocephaly.
17th Meeting on Dysmorphology, Strasbourg, 14-15 September 2006
- **Debeer, Ph.** Infections of the shoulder joint.
Belgian Shoulder Meeting, Malta, 16-19 November 2006
- **Debeer, Ph.** Calcifications of the rotator cuff.
Belgian Shoulder Meeting, Malta, 16-19 November 2006
- **Debeer, Ph.** Pathologie van de schouder
Verpleegkundige orthopedie, Pellenberg 12 Februari 2007
- **Debeer, Ph.** Rotator cuff scheuren.
Postgraduate Vorming Musculoskeletale Revalidatie, Leuven, 15 February 2007
- **Debeer, Ph.** Chirurgie van de schouder. Het succesverhaal van de knie achterna?
Orthopedie voor de eerste lijn, Ronse, 30 Juni 2007
- Decaigny, V., Van Gerven, E., Draelinck, R., Kumar, A., **Debeer, Ph.**, Vandermeersch E.

Continuous Interscalene plexus block for postoperative pain control at home, after arthroscopic shoulder surgery: Necessary or not?
XXVI Annual ESRA Congress, Valencia, Spain, Sept 12 -15 , 2007.

- Dimitrov, B., **Debeer, Ph.**, Johan, L., Fryns, J.P., Devriendt, K.
A new familial case of Gollop-Wolfgang syndrome confirming an autosomal recessive mode of inheritance.
18th Meeting on Dismorphology, Strasbourg, 6-7 September 2007
- **Debeer, Ph.**, Middernacht, B., Molé, P., Favard, L., De Wilde, L.
Desimpaction of the glenosphere: a potentially serious complication in reverse shoulder arthroplasty.
Xth ICSS Conference, Bahia, Brasil, 16-20 September 2007
- **Debeer, Ph.** Schouderpathologie: overzicht en recente ontwikkelingen.
Vervolmakingscursus voor verzekeringsgeneeskunde
Wetenschappelijke Vereniging voor Verzekeringsgeneeskunde vzw
Leuven, 17 October 2007
- Dimitrov, B.I., de Ravel, T., Die-Smulders, C.d., Toutain, A., Vermeesch, J.R., Fryns, J.-P., Devriendt, K., **Debeer, Ph.**
- Distal limb deficiency, micrognathia syndrome (OMIM 246560) and syndromic forms of split hand foot malformation (SHFM) are caused by chromosome 10q genomic rearrangements
ESHG, Barcelona, 31 May -03 June 2008
- **Debeer, Ph.**, Middernacht, B., Molé, P., Favard, L., De Wilde, L.
Desimpaction of the glenosphere: a potentially serious complication in reverse shoulder arthroplasty.
EFORT, 29 May – 1 June 2008, Nice, France
- Middernacht, B., **Debeer, Ph.**, Molé, P., Favard, L., De Wilde, L.
Desimpaction of the glenosphere: a potentially serious complication in reverse shoulder arthroplasty.
13th ESSKA 2000 Congress, May 21-24, 2008, Porto, Portugal
- Fantini, S., Vaccari, G., Brison, N., **Debeer, Ph.**, Tylzanowski, P., Zappavigna, V.
A G220V mutation N-terminal to the homeodomain causes limb malformations by impairing both the DNA-binding and transcriptional activation functions of HOXD13.
10th International Conference on Limb Development and Regeneration, 13-16 August 2008, Madrid, Spain
- Luyckx, T., **Debeer, Ph.** How do Flemish shoulder surgeons treat a full thickness rotator cuff tear?
SECEC, 17-20 September 2008, Bruges, Belgium
- Decaigny, V., Van Gerven, E., Dreelinck, R., Kumar, A., **Debeer, Ph.**, Vandermeersch E.
Continuous Interscalene plexus block for postoperative pain control at home, after arthroscopic shoulder surgery: Necessary or not?
SECEC, 17-20 September 2008, Bruges, Belgium
- **Debeer, Ph.**, Middernacht, B., Molé, P., Favard, L., De Wilde, L.
Desimpaction of the glenosphere: a potentially serious complication in reverse shoulder arthroplasty.
SECEC, 17-20 September 2008, Bruges, Belgium

Publicaties:

- Groenen, P.M.A., Garcia, E., **Debeer, Ph.**, Devriendt, K., Fryns, J.-P. and Van de Ven W.J.M. Structure, sequence and chromosome 19 localization of human *USF2* and its rearrangement in a patient with multicystic renal dysplasia. *Genomics*, **38**, 141-148, 1996.

- De Smet, L., **Debeer, Ph.** and J.P. Fryns. Cenani-Lenz syndrome in father and daughter. *Genet. Counsel.*, **7**, (2), 153-157, 1996.
 - **Debeer, Ph.**, Schoenmakers, E.F.P.M., De Smet, L., Van de Ven, W.J.M., and Fryns, J.-P. Co-segregation of an apparently balanced reciprocal t(12;22)(p11.2;q13.3) with a complex type of 3/3'/4 synpolydactyly associated with metacarpal, metatarsal and tarsal synostoses in three family members. *Clin. Dysmorphol.*, **7**, 225-228, 1998.
 - **Debeer, Ph.**, Schoenmakers, E.F.P.M., Thoelen, R., Fryns, J.-P., and Van de Ven, W.J.M. Physical mapping of the t(12;22) translocation breakpoints in a family with a complex type of 3/3'/4 synpolydactyly. *Cytogenet. Cell Genet.*, **81**, 229-234, 1998.
 - Groenen, P.M.A., **Debeer, Ph.**, Van Esch, H., Devriendt, K., Fryns, J.-P., and Van de Ven, W.J.M. Chromosomale afwijkingen in dysmorfogenese : een multidisciplinaire zoektocht naar de fundamentele processen tijdens onze embryonale ontwikkeling. *Tijdschrift voor Geneeskunde*, **55 (8)**, 601-608, 1999.
 - Devriendt, K., Jaeken, J., Mattijs, G., Van Esch, H., **Debeer, Ph.**, Gewillig, M., Fryns, J.-P. Haploinsufficiency for the *HOXA*-Gene Cluster in a patient with hand-foot-genital syndrome, velo-pharyngeal insufficiency and persistent patent ductus botalli. *Am. J. Hum. Genet.*, **65**:249-251, 1999.
 - **Debeer, Ph.**, De Corte, R., Delvaux, S., and Bellemans, J. DNA analysis of a transplanted cryopreserved meniscal allograft. *Arthroscopy*, **16(1)**, 71-75, 2000.
 - **Debeer, Ph.**, Schoenmakers, E.F.P.M., Thoelen, R., Holvoet, M., Kuittinen, T., Goodman, F.R., Fabry, G., Fryns, J.-P., and Van de Ven W.J.M. Physical map of a 1.5Mb region on 12p11.2 harbouring a synpolydactyly-associated chromosomal breakpoint. *Eur. J. Hum. Genet.*, **8**, 561-570, 2000.
 - **Debeer, Ph.** Molecular characterization of a chromosomal aberration in patients with a complex type of synpolydactyly. *Tijdschrift voor Kindergeneeskunde*, **68 (3)**, 118. 2000
- Debeer, Ph.**, De Smet, L. and Fryns, J.-P. Intrafamilial clinical variability of brachydactyly type C. *Genet. Counsel*, **12 (4)**, 353-358, 2001.
- Peeters, H., **Debeer, P.**, Groenen, P., Van Esch, H., Vanderlinden, G., Eyskens, B., Mertens L., Gewillig, M., Van De Ven, W., Fryns, J.-P. and Devriendt, K. Recurrent involvement of chromosomal region 6q21 in heterotaxy. *Am J Med Genet.*, **103(1)**:44-7, 2001
 - Jacobs, R., Stoffelen, D., **Debeer, Ph.**, and De Smet, L. Treatment of rotatorcuff arthropathy with a reversed Delta shoulder prosthesis. *Acta Orthop. Belg.* 2001. **67(4)**:344-347.
 - **Debeer, Ph.**, De Smet, L., Schoenmakers, E., Van de Ven, W., Fryns, J.-P. and Fabry, G. Complex synpolydactyly associated with metacarpal and metatarsal synostoses: a new clinical entity? Congenital differences of the upper limb. *Proceedings of the 5th International Symposium on Congenital Differences of the Upper Limb.* Editor: Toshihiko Ogino, M.D. p69-72.
 - **Debeer, Ph.**, Schoenmakers, E.F.P.M., Twal, W.O., Argraves, W.S., De Smet, L., Fryns, J.-P., and Van de Ven, W.J.M. *Fibulin-1D* is disrupted in a t(12;22) associated with a complex type of synpolydactyly. *J. Med. Genet.* 2002. **39(2)**:98-104.
 - **Debeer, Ph.**, De Smet, L., Van de Ven, W., Fabry, G. and Fryns, J.-P. Genes and orthopaedics: from gene to clinic and vice versa. *Acta Orthop. Belg.* 2002. **68(3)**:203-212.
 - De Smet, L. and **Debeer, Ph.** Fetal hydantoin syndrome with unilateral atypical cleft hand: additional evidence for vascular dysruption. *Genet. Counsel.* 2002. **-13(2)**:157-161.

- **Debeer, Ph.**, de Ravel, T.J.L., Devriendt, K., Huysmans, C., Van de Ven, W.J.M. and Fryns, J.-P. The human homologues of *Osr1* and *Osr2* are not involved in a syndrome with distal limb deficiencies, oral abnormalities and renal defects. *Am. J. Med. Genet.* 2002. **111**(4):455-456.
- **Debeer, Ph.**, Brys, P., De Smet, L. and Fryns, J.P. Unilateral absence of the trapezius and pectoralis major muscle: a variant of Poland syndrome. *Genet. Counsel.* 2002. **13**(4):449-453.
- **Debeer, Ph.**, Mols, R., Huysmans, Ch., Devriendt, K., Van de Ven, W.J.M. and Fryns, J.-P. Involvement of AT-rich regions on chromosome 22q in a constitutional t(X;22). *Clin. Genet.* 2002. **62**(5): 410-414.
- **Debeer, Ph.**, Bacchelli, C., Scambler, P., De Smet, L., Fryns, J.-P. and Goodman, F. Severe digital abnormalities in a patient heterozygous for both a novel missense mutation in *HOXD13* and a polyalanine tract expansion in *HOXA13*. *J. Med. Genet.* 2002. **39**(11):852-856.
- **Debeer, Ph.**, Pykels, E., Lammens J., Devriendt, K. and Fryns, J.-P. Melorheostosis in a family with autosomal dominant osteopoikilosis: report of a third family. *Am. J. Med. Genet.* 2003. **119**(2):188-193.
- **Debeer, Ph.**, De Borre, L., De Smet, L. and Fryns, J.-P. Asymmetrical Larsen syndrome in a young girl: a second example of somatic mosaicism in this syndrome. *Genet. Counsel.*, 2003. **14**(1): 95-100.
- **Debeer, Ph.**, Peeters, H., Driess, S., De Smet, L., Freese, K., Matthijs, G., Bornholdt, D., Devriendt, K., Grzeschik, K.-H., Fryns, J.-P. and Kalff-Suske, M. The variable phenotype in Greig cephalopolysyndactyly syndrome: clinical and radiological findings in 4 independent familial and 3 spontaneous cases with identified *GLI3* mutations. *Am. J. Med. Genet.* 2003. **120A**(1):49-58.
- Peeters, H., **Debeer, Ph.**, Bairoch, A., Wilquet, V., Huysmans, C., Parthoens, E., Fryns, J.-P., Gewillig, M., Nakamura, Y., Niiikawa, N., Van de Ven, W. and Devriendt K. PA26 is a candidate gene for heterotaxia in humans: identification of a novel PA26-related gene family in human and mouse. *Human Genetics*, 2003. **112**(5-6):573-580.
- Lettice, L.A., Heaney, S.J., Purdie, L.A., Li L., **Debeer, Ph.**, Oostra, B.A., Goode, D., Elgar, G., Hill, R.E., and De Graaff, E. A long-range Shh enhancer regulates expression in the developing limb and fin and is associated with preaxial polydactyly. *Hum.Mol. Genet.* 2003. **12**(14):1725-1735.
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