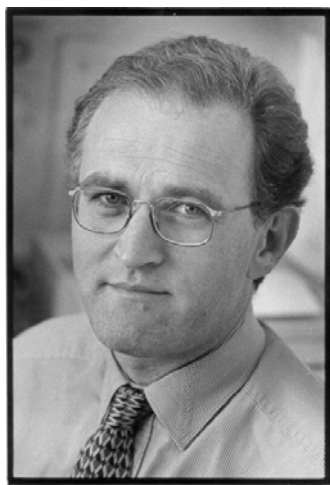


## CURRICULUM VITAE



NAME: FRANK PROSPER JOZEF LUYTEN

PLACE OF BIRTH: Oostende, Belgium

WORK ADDRESS: Division of Rheumatology  
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CITIZENSHIP: Belgium

LANGUAGES: Dutch, French, English, German

MARITAL STATUS: Married to Catheline de Jonge, 3 children

### POSITIONS:

1997-present Professor, Faculty of Medicine, KU Leuven and Chairman of the Division of Rheumatology and of the Department of Musculoskeletal Sciences, University Hospitals, Herestraat 49, B-3000 Leuven, Belgium

1993-1997 Senior Scientist  
Chief, Developmental Biology Unit  
Craniofacial and Skeletal Diseases Branch, National Institute of Dental Research,  
National Institutes of Health, Bethesda, MD, USA

1988-1992 Visiting Associate, Bone Cell Biology Section, Laboratory of Cellular Development and Oncology, National Institute of Dental Research, National Institutes of Health, Bethesda, MD, USA

1986-1988 International Fogarty Fellow, Bone Cell Biology Section, Bone Research Branch, National Institute of Dental Research, National Institutes of Health, Bethesda, MD, USA

1983-1986 Resident and Staff Member, Department of Rheumatology, University Hospital Ghent, Belgium, Europe

1980-1983 Resident, Department of Internal Medicine, University Hospital Ghent, Belgium, Europe

**GCP/OHC statement:**

By signing this CV, I state that I am fully aware of GCP and ICH guidelines for clinical trials, and that I am trained with regarding to these guidelines during several investigator meetings and initiation visits. Last training: June 2004.

EDUCATION and DEGREES:

- Bachelor of Medicine: July, 1976, cum laude.  
University of Ghent, Belgium
- Medical Doctor (M.D.): July, 1980, magna cum laude.  
University of Ghent, Belgium
- Doctor in Bio-Medical Sciences (Ph.D.):  
June, 1986, maxima cum laude.  
University of Ghent, Belgium
- Board Certified Rheumatologist (Belgium, W-Europe)  
July, 1986

SCIENTIFIC HONORS/AWARDS/FELLOWSHIPS:

- Ciba Award for Research in Rheumatology, 1984.  
for the work entitled "Chondrocytes in situ: a long-term organ culture model to study the repair of human articular cartilage", F.P.Luyten
- NATO Research Fellowship, 1986-1987.
- International Fogarty Research Fellowship, 1986-1987.
- NIH Fogarty Fellowships as Visiting Associate and Visiting Scientist, 1988-1997.
- Expert Member of the Scientific Advisory Board, Kennedy Institute for Rheumatology, UK, 1996.
- Member of the Study Section Oral Biology/Medicine, NIH, USA, 1996-1997.
- Expert reviewer for the Human Science Frontier Program, 1996-1997.
- Expert-Reviewer INSERM 2002-
- Scientific Advisor- Instituts de Biotherapie-, Montpellier, France

## PATENT APPLICATIONS:

### PCT/US94/12814

**Cartilage-derived Morphogenetic Proteins, novel members of the TGF- $\beta$  superfamily"**

**Principal inventor:** F. P. Luyten

US Application 10/379,830

### PCT/US97/18362 – 10/014,055

**Isolation and use of tissue growth inducing FRZB protein**

**Principal inventor:** F. P. Luyten

Publication N° US-2003-0139591

### US patent 09/851,921 – US Patent N° 6,617,161

**Serum-free cell growth medium**

**Principal Inventor:** F. P. Luyten

### WO2004012503

**Compositions comprising muscle progenitor cells and uses thereof.**

**Inventor(s):** DE BARI, Cosimo; LUYTEN, Frank; DELL'ACCIO, Francesco

**Filed** 30/07/2003

**Published** 12/02/2004

**Applicant** Tigenix

### WO2003000724

**Polynucleotide sequences and vectors useful for the prevention or treatment of bone- or cartilage-related disorders**

**Inventor(s):** LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

**Filed** 08/03/2002

**Published** 03/01/2003

**Applicant** Tigenix

### GB2385052

**Treatment of spondyloarthropathies**

**Inventor(s):** Luyten, Frank; Lories, Rik

**Filed** 20020205

**Published** 20030813

**Applicant** K U Leuven Research & Development

### WO2003066081

**BMP inhibitors for the treatment of spondyloarthropathies**

**Inventor(s):** LUYTEN, Frank; LORIES, Rik

**Filed** 05/02/2003

**Published** 14/08/2003

**Applicant** K U Leuven Research & Development

### US20030235813

**In vivo assay and molecular markers for testing the phenotypic stability of cell populations, and selecting cell populations for autologous transplantation**

**Inventor(s):** Luyten, Frank; De Bari, Cosimo; Dell'Accio, Francesco

**Filed** 24/04/2003

**Published** 25/12/2003

**Applicant** Tigenix

### WO0124833

**In vivo assay for testing the phenotypic stability**

**Inventor(s):** LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco

**Filed** 06/10/2000

**Published** 12/04/2001

**Applicant** Tigenix

### EP1218037

**In vivo assay for testing the phenotypic stability**

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**Applicant** Tigenix

**WO0125402**

**Isolation of precursor cells and their use for tissue repair**

**Inventor(s):** LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco  
**Filed** 06/10/2000  
**Published** 12/04/2001  
**Applicant** Tigenix

**EP1282690**

**Isolation of precursor cells and their use for tissue repair**

**Inventor(s):** LUYTEN, Frank; DE BARI, Cosimo; DELL'ACCIO, Francesco  
**Filed** 06/10/2000  
**Published** 12/02/2003  
**Applicant** Tigenix

**US20030176683 A1**

**Cartilage-derived morphogenetic proteins**

**Inventor(s):** Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan  
**Filed** 03/03/2003  
**Published** 18/09/2003  
**Applicant**

**US20010037017 A1**

**DNA molecules encoding cartilage-derived morphogenetic proteins**

**Inventor(s):** Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan  
**Filed** 13/12/2000  
**Issued** 01/11/2001  
**Applicant**

**US20030185898 A1**

**Cartilage-Derived morphogenetic proteins**

**Inventor(s):** Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan  
**Filed** 1/5/2000  
**Published** 2/10/2003  
**Applicant**

**US20010011131 A1**

**DNA molecules encoding cartilage-derived morphogenetic proteins**

**Inventor(s):** Luyten, Frank, P.; Moos, Malcolm; Chang, Steven, Chao-Huan  
**Filed** 5/12/2000  
**Issued** 2/08/2001  
**Applicant**

**US20010039050 A1**

**Serum-free cell growth medium**

**Inventor(s):** Luyten, Frank P.; Erlacher, Ludwig  
**Filed** 9/11/2001  
**Issued** 8/11/2001  
**Applicant** The United States of America as represented by the Department of Health and Human Services

**WO9859035 A2**

**Serum-free cell growth medium**

**Inventor(s):** Luyten, Frank P.; Erlacher, Ludwig  
**Filed** 22/06/1998  
**Published** 30/12/1998  
**Applicant** The United States of America as represented by the Department of Health and Human Services

**US6617161 B2**

**Serum-free cell growth medium**

**Inventor(s):** Luyten, Frank P.; Erlacher, Ludwig  
**Filed** 09/05/2001  
**Issued** 9/09/2003  
**Applicant** The United States of America as represented by the Department of Health and Human Services

**WO9816641 A1**

**Isolation and method of using tissue growth-inducing Frzb protein**

**Inventor(s):** Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen

**Filed** 8/10/1997

**Published** 23/04/1998

**Applicant** The United States of America as represented by the Department of Health and Human Services

**US20030009023 A1**

**Isolation and method of using tissue growth-inducing Frzb protein**

**Inventor(s):** Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen

**Filed** 28/02/2002

**Published** 9/01/2003

**Applicant** The United States of America as represented by the Department of Health and Human Services

**US20020147329 A1**

**Method of modulating tissue growth using Frzb protein**

**Inventor(s):** Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen

**Filed** 19/12/2001

**Published** 10/10/2002

**US20030139591 A1**

**Isolation and use of tissue growth-inducing Frzb protein**

**Inventor(s):** Luyten, Frank P.; Moos, Malcolm; Hoang, Bang; Wang, Shouwen

**Filed** 07/12/2001

**Published** 24/07/2003

**WO9614335 A1**

**CARTILAGE-DERIVED MORPHOGENETIC PROTEINS**

**Inventor(s):** LUYTEN, Frank, P.; MOOS, Malcolm, Jr.; CHANG, Steven, Chao-Huan

**Filed** 19941107

**Published** 19960517

**Applicant** THE GOVERNMENT OF THE UNITED STATES OF AMERICA

**TEACHING EXPERIENCE; DOCTORAL AND POSTDOCTORAL TRAINEES**

- FAES advanced postdoctoral course in the Biochemistry of Connective Diseases, National Institutes of Health, Bethesda, MD 20892, USA ,1993.
- Seminars for summer students at the NIDR, National Institutes of Health, Bethesda, MD, USA, from 1995-1997.
- Summer Students (1-2 per year, 1992-1997).
- Promotor or Co-Promotor Doctoral Students:
  - Marco Helder, Ph.D., (1992-1993)
  - Bang Hoang, M.D., Howard Hughes Research Fellow, (1993-1995)
  - Steven Chang, M.D. (1993-1994)
  - Francesco Dell'Accio, M.D. (1997-2003)
  - Cosimo De Bari, M.D. (1997-2003)
  - Rik Lories, M.D. (1998-2003)
  - Jeroen Eyckmans (2001-2007)
  - Marechal Marina (2003-2006)

Melina Daans (2003-present)  
Giovanni Matricali (2003-present)  
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Bellon Ellen (2005-present)  
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- Postdoctoral Trainees:

Ping Chen, Ph. D. (1992-1995)  
Sharon Tomaski, M.D. (1992-1993)  
Keming Lin, M.D. (1994-1997)  
Terrig Thomas, Ph.D. (1994-1997)  
Ludwig Erlacher, M.D. (1995-1997)  
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Astrid Bakker, Ph.D. (2004-2006)  
Jeroen Eyckmans (2007-present)

- Visiting Scholars:

Georges Zalzal, M.D., Associate Professor and Chair of the Department of Otolaryngology at the Children's National Medical Center, Washington D.C., USA (1992)  
Slobodan Vukicevic, M.D., Professor, Department of Anatomy and Cell Biology, Zagreb University Medical School, Zagreb, Croatia (1992-1995)

EDITORIAL BOARD MEMBER:

- Annals of the Rheumatic Diseases
- Bone
- Journal of Dental Research

## **BIBLIOGRAPHY:**

### **PEER REVIEWED INTERNATIONAL ARTICLES**

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2. VERBRUGGEN G, VEYS EM, LUYTEN FP. Dedifferentiation of human Chondrocytes in monolayer culture. **Clin Rheumatol** 1984; 3: 97-8. IF:1.15
3. VERBRUGGEN G, LUYTEN F, VEYS EM. Repair function in organ-cultured human cartilage. Replacement of enzymatically removed proteoglycans during long-term organ culture. **J Rheumatol** 1985; 4: 665-74. IF:2.86  
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4. LUYTEN FP, SUYKENS S, VEYS EM, VAN LERBEIRGHE J, ACKERMAN C, MIELANTS H, VERBRUGGEN G. Peripheral blood T lymphocyte subpopulations determined by monoclonal antibodies in active rheumatoid arthritis. **J Rheumatol**, 1986; 13: 864-9. IF:2.86  
CI:21
5. LUYTEN FP, VERBRUGGEN G, VEYS EM, GOFFIN E, DE PYPERE H. In vitro repair potential of articular cartilage. Proteoglycan metabolism in the different areas of the femoral condyles in human cartilage explants. **J Rheumatol** 1987; 2: 329-34. IF:2.86  
CI:5
6. LUYTEN FP, VERBRUGGEN G, VEYS EM. Reparative response of human articular cartilage in tissue culture. Comparison between a normal and an osteoarthritic knee of the same donor. **Clin Exp Rheumatol** 1987; 5: 103-10. IF:1.50  
CI:4
7. LUYTEN FP, HASCALL VC, NISSLEY SP, MORALES TI, REDDI AH. Insulin-like growth factors maintain steady state metabolism of proteoglycans in bovine articular cartilage explants. **Arch Biochem Biophys** 1988; 267: 416-25. IF:2.66  
CI:170
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CI:5
9. LUYTEN FP, CUNNINGHAM NS, MA S, MUTHUKUMARUN R, HAMMONDS RG, NEVINS WB, WOOD WI, REDDI AH. Purification and partial amino acid sequence of osteogenin, a protein initiating bone cell differentiation. **J Biol Chem** 1989; 264: 13377-80. IF:6.36  
CI:243
10. VUKICEVIC S, LUYTEN FP, REDDI AH. Stimulation of the expression of osteogenic and chondrogenic phenotypes in vitro by osteogenin. **Proc Natl Acad Sci USA** 1989; 86: 8793-7. IF:10.45  
CI:181
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CI:27



- 12.
12. VUKICEVIC S, LUYTEN FP, REDDI AH. Osteogenin inhibits proliferation and stimulates differentiation in mouse osteoblast-like cells (MC3T3-E1). **Biochem Bioph Res Co** 1990; 166: 750-6. IF:2.90  
CI:51
13. VUKICEVIC S, LUYTEN FP, KLEINMAN HK, REDDI AH. Differentiation of canalicular cell processes in bone cells by basement membrane matrix components: regulation by discrete domains of laminin. **Cell** 1990; 63: 437-45. IF:28.39  
CI:113
14. HARRISON ET, LUYTEN FP, REDDI AH. Osteogenin promotes re-expression of cartilage phenotype by dedifferentiated chondrocytes in agarose. **Exp Cell Res** 1991; 192: 340-5. IF4.01  
CI:31
15. LUYTEN FP, YU M YU, YANAGISHITA M, VUKICEVIC S, HAMMONDS RG, REDDI AH. Natural bovine osteogenin and recombinant human bone morphogenetic protein 2B are equipotent in the maintenance of the steady-state of proteoglycans in bovine articular cartilage explants. **J Biol Chem** 1992; 267: 3691-5. IF:6.36  
CI:82
16. ZALZAL GM, LUYTEN FP. An in vitro model for studying growth, and effects of trauma and external agents on the cricoid at the cellular level. **Arch Otolaryngol** 1992; 118: 407-11. IF:1.41  
CI:4
17. HARRISON ET Jr, LUYTEN FP, REDDI AH. Transforming growth factor-beta: its effect on phenotype reexpression by dedifferentiated chondrocytes, in the presence and absence of osteogenin. **In Vitro Cell and Dev Biology** 1992; 28: 445-8. IF:0.39  
CI:10
18. VUKICEVIC S, LUYTEN FP, KLEINMAN H, CUNNINGHAM N, ROBERTS A, REDDI AH. Growth factors in reconstituted basement membrane (Matrigel) modulate the network formation by immature osteoblastic cells. **Exp Cell Res** 1992; 202: 1-8. IF:4.01  
CI:226
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CI:37
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CI:13
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CI:36
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CI:70

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24. VUKICEVIC S, HELDER M, LUYTEN FP. The developing human lung and kidney are the major sites of synthesis of Bone Morphogenetic Protein-3. **J Histochem Cytochem** 1994; 42: 869-75. IF:2.51 CI:48
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26. CHEN P, VUKICEVIC S, SAMPATH TK, LUYTEN FP. Osteogenic protein-1 promotes growth and maturation of chick sternal chondrocytes in serum-free cultures. **J Cell Sci** 1995; 108: 105-14. IF:6.91 CI:48
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28. LUYTEN FP. Cartilage-derived Morphogenetic Proteins: Key Regulators in Chondrocyte differentiation ? **Acta Orthop Scand Suppl.**, 1995, 66, 51-4. IF:1.02 CI:3
29. HOANG B, MOOS M, VUKICEVIC S, LUYTEN FP. Structure and Expression Pattern of Frzb, a Novel *frizzled* Related Protein, Suggest a Role in Skeletal Morphogenesis, **J Biol Chem** 1996; 271: 26131-7. IF:6.36 CI:79
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CI:7
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CI: 14
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CI:251
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CI:114
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CI:69
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CI:94
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CI:2
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CI:38
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CI:51
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CI:44

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CI:70
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CI:23
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CI:57
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CI:19
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CI: 18
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CI:8
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CI:13
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CI:21
55. DE BARI C, DELL'ACCIO F, TYLZANOWSKI P, LUYTEN FP. Multipotent mesenchymal stem cells from adult human synovial membrane. **Arthritis Rheum** 2001; 44: 1928-42. IF:7.41  
CI:64
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CI:4
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