

## Curriculum Vitae

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**Naam:** Johan Vanlauwe  
**Geboortedatum:** Izegem 20 april 1967  
**Functie:** Orthopedisch chirurg  
Knie- en sportletsels

### Studies:

Promotion tot 'Arts': 1992 K.U.Leuven  
Promotion tot 'Orthopedisch chirurg en Traumatologie': 1998 K.U.Leuven  
Post- graduaat "Hospital Management": 1998 K.U.Leuven

### Residency:

01.08.1998 – 31.12.1998: Universitair ziekenhuis Leuven campus Pellenberg  
Training ilizarov with Prof. Lammens

01.01.1999 – 31.03.1999: Fellowship in Bern under supervision of Prof. R. Ganz  
The Bernese peri- acetabular osteotomy and traumatology

01.04.1999 – 31.12.1999: Fellowship with Rene Verdonk

01.01.2000 – 28.02.2001: University Hospital Pellenberg - Leuven  
Ilizarov training

01.01.2000 – present: University Hospital Pellenberg - Leuven  
Knee- and Sport Medicine

Staff member of the department of Orthopaedics since Jan 2000 in collaboration with TiGenix. TiGenix is a spin off company from the University of Leuven and Ghent focussing on regenerative medicine in the musculoskeletal field.

- Development of new surgical techniques for cartilage repair.
- Development of animal models for osteoarthritis and meniscal repair.

Department of orthopaedics: Ilizarov training from January 2000 to February 2001 as staff member in the dept together with Prof Lammens: focus on congenital disorders in children and post trauma disorders in adults and children

Tasks within Orthopaedics:

- Staff member in the knee department with focus on cartilage repair since Feb 2001.
- Responsible physician of the Leuven Tissue Bank and currently involved in a large-scale government funded project on "Guided bone engineering".
- Specialized in cartilage surgery.
- Subinvestigator in clinical trials: TiGenix, Novartis, Genzyme.
- Principal investigator Orteq trial

### Wetenschappelijke lidmaatschappen:

- American Academy of Orthopaedic Surgeons
- European Society for Surgery of the Knee and Arthroscopy
- International Cartilage Repair Society
- Belgische vereniging voor Orthopedie en Taumatologie

- Arthroscopie Belge – Belgische Arthroscopie: board member and president elect for 2008

**Nationale en international presentaties:**

- AAOS 1998: cemented cup with pressurized injection of cement
- ICRS meeting Toronto Canada 15-18 June 2002. Expanded Phenotypically Stable Chondrocytes Persist in The Repair Tissue and Contribute to Cartilage Matrix Formation and Structural Integration in A Goat Model of Autologous Chondrocyte Implantation  
AUTHORS: Frank P. Luyten, Francesco Dell’Accio, Johan Vanlauwe, Johan Neys, Cosimo De Bari, and Johan Bellemans
- ICRS Ghent 2004 Species Differences In Osteogenic Capacity Of Periosteum-Derived Cells  
Eyckmans Jeroen, Marechal Marina, Johan Vanlauwe, Frank P. Luyten
- ICRS Ghent 2004 Mesenchymal Stem Cells From The Periosteum But Not From The Synovial Membrane Form Bone In Vivo Consistently And Reproducibly  
De Bari Cosimo, Francesco Dell Accio, Johan Vanlauwe, Costantino Pitzalis, Frank P. Luyten
- ICRS Ghent 2004 An International Multicentric Prospective Randomized Controlled Trial For Cartilage Repair Using Microfracture Versus Autologous Chondrocyte Implantation With Chondrocelect® : Scientific Background and Trial Design .  
Vanlauwe Johan, Francesco Dell’accio Md Phd, Nancy Veulemans Ir, Frank P. Luyten Md Phd
- Preliminary results of Autologous chondrocyte implantation in the Patellofemoral joint.” ICRS San Diego 2006-03-15. Vanlauwe, JJ, Claes, S, Van Assche, D, Bellemans, J, Luyten, FP
- “Preliminary results of Autologous chondrocyte implantation in the Patellofemoral joint.” ESSKA Innsbruck 2006 Vanlauwe, JJ, Claes, S, Dept of Orthopaedic surgery, University Hospitals, Catholic University of Leuven, Belgium; Van Assche, D, Bellemans, J, Luyten, FP
- “Guided Bone Engineering”, and interdisciplinary approach to healing large bone defects. BVOT Ghent 2006.

Characterized chondrocyte implantation has a similar safety profile to microfracture for the treatment of symptomatic cartilage defects of the knee

Type: B: Poster

Topic: Clinical research / Knee (Chondral and Osteochondral defects)

J. Vanlauwe<sup>1</sup>, J. Victor<sup>2</sup>, D.B. Saris<sup>3</sup>, J. Bellemans<sup>1</sup>, F.P. Luyten<sup>1</sup>; <sup>1</sup>Leuven/BE, <sup>2</sup>Bruges/BE, <sup>3</sup>Utrecht/NL

ICRS Warsaw 2007

Short-term clinical outcome following characterized chondrocyte implantation versus microfracture for symptomatic cartilage lesions of the knee.

Type: B: Poster

Topic: Clinical research / Knee (Chondral and Osteochondral defects)

J. Vanlauwe<sup>1</sup>, J. Victor<sup>2</sup>, J. Bellemans<sup>1</sup>, F. Luyten<sup>1</sup>; <sup>1</sup>Leuven/BE, <sup>2</sup>Bruges/BE

ICRS Warsaw 2007

- Evaluating knee function after cartilage repair following an identical rehabilitation protocol. Dieter Van Assche et al. ESSKA Porto 2008
- Safety of characterized chondrocyte implantation in treatment of patients suffering from symptomatic knee cartilage defects – compassionate use program. Johan Vanlauwe et al. ESSKA Porto 2008
- Safety of characterized chondrocyte implantation in the treatment of patients with complex symptomatic knee cartilage defects – expanded access program. Johan Vanlauwe et al. ESSKA Porto 2008
- Orthopaedic conference Pellenberg 1998: Rotational Malalignment of the lower limbs: correction with Ilizarov technique
- ASAMI meeting in Dana Point California 2-3 Feb 1999: Rotational malalignment correction with Ilizarov
- ASAMI meeting in Dana Point California 2-3 Feb 1999: Humeral pseudarthrosis correction with Ilizarov
- Sportcongres De Haan 2001 Cartilage repair
- Belgisch Vereniging voor Kinesitherapie ULB 23-03-2002. Autologous Chondrocyte Transplantation
- Luik 5 oktober 2002 ABA: ACT: clinical results and indications

- International Federation for Sports Medicine (FIMS) in Hasselt 12-05-2003: "Modern Trends in Cartilage resurfacing"
- EFORT 2003: Correction of rotational malalignment syndrome. A follow-up study of 37 patients. Peter Mertens, J. Lammens, J. Vanlauwe, G. Fabry. University Hospital Pellenberg KULeuven
- ESSKA 2004: ABA Symposium: An International Multicentric Prospective Randomized Controlled Trial for Cartilage Repair using Microfracture versus Autologous Chondrocyte Implantation with ChondroCelect®: Setup and Scientific Background.
- BVOT Aldenbiezen 2004: Autologous Chondrocyte Implantation: What Can We Expect?
- "Avasculaire Necrose van de knie: een algoritme voor behandeling" Orthoconcept 2005 Pellenberg 21-22 jan 2005
- "Stem cell based therapies for joint surface repair" EFORT 2005 Lisbon 4 Jun
- "Cell source and quality control for reproducible cartilage repair" YSOS Bologna 1 Jul 2005
- "Autologous chondrocyte implantation, current position in the treatment algorithm." 25/10/05 Postgraduate meeting Gent
- "Kraakbeenceltransplantatie" 18/11/05 Leuvense Dagen voor Huisartsen
- "De gekraakte knie, Transplantatie of prothese?" 19/11/05 Tiense Huisartsen en Kinesisten
- "ChondroCelect, phase 3 clinical trial." 09/01/06 International Cartilage Repair Society San Diego
- "Judet Quadriceps release" Orthoconcepts 2006
- "ChondroCelect, phase 3 clinical trial." 18/02/06 CHIREQ Brussels
- "ChondroCelect, cell technology platform & phase 3 clinical trial." 17/03/06 Nederlandse Vereniging voor Arthroscopie Ermelo
- "Current solutions and rising possibilities for the young arthritic knee, the Belgian Experience." 28/04/06 Nederlandse Vereniging voor Orthopedie Paterswolde
- "ChondroCelect & Reconstitution of tissue function, moving ACI from procedure to product." 27/05/06 ESSKA Innsbruck
- "Trends in cartilage repair: comparison of Microfracture with ACI" 28/09/2006 EFOST Pavia
- "Open wedge femoral varus osteotomy" 20/10/2006 ICRS surgical skills course Miami, faculty member.
- "ACI: next generation or new category, what is needed?" 20/10/2006 ICRS surgical skills course Miami.
- "Not all cells are born equal" 09/12/2006 FIMS limcosport Diepenbeek
- "Prospective Randomized Controlled Trial of ChondroCelect versus Microfracture in the Repair of Symptomatic Cartilage Defects of the Knee" 28/05/2007 ISAKOS Firenze.
- "Prospective Randomized Controlled Trial of ChondroCelect versus Microfracture in the Repair of Symptomatic Cartilage Defects of the Knee" 28/06/2007 First ICRS rehabilitation consensus meeting Zurich.
- Evaluating knee function in patients treated with characterized chondrocyte implantation and microfracture, following an identical, standardized rehab protocol. D Van Assche<sup>1</sup>, D Van Caspel<sup>2</sup>, F Staes<sup>3</sup>, **J Vanlauwe**<sup>1</sup>, J. Bellemans<sup>1</sup>, DB, Saris<sup>2</sup>, FP.Luyten<sup>1</sup>. ICRS Warschau 2007
- Magnetic resonance imaging of cartilage repair in the knee: benefits of characterized chondrocyte implantation compared to microfracture. I. Van Breuseghem<sup>1</sup>, W.C.J. Huysse<sup>2</sup>, **J. Vanlauwe**<sup>3</sup>, F.P. Luyten<sup>3</sup>, K.L. Verstraete<sup>2</sup>; ICRS Warschau 2007
- ICRS and Oswestry macroscopic cartilage evaluation scores validated for use in autologous chondrocyte implantation and microfracture. M. van den Borne, Raijmakers NJ, Vanlauwe J, Victor J, de Jong SN, Bellemans J, Saris DB. ICRS Warschau 2007
- Implementation of rehabilitation exercises for patients treated with characterized chondrocyte implantation and microfracture. D Van Assche<sup>1</sup>, D Van Caspel<sup>2</sup>, F Staes<sup>3</sup>, **J Vanlauwe**<sup>1</sup>, J. Bellemans<sup>1</sup>, DB, Saris<sup>2</sup>, FP. Luyten<sup>1</sup>. ICRS Warschau 2007
- Comparison of structural repair following characterized chondrocyte implantation or microfracture for the treatment of symptomatic cartilage defects of the knee Daniël Saris, MD, PhD1/**Johan Vanlauwe**, MD2, Jan Victor, MD3, Johan Bellemans, MD, PhD2, Frank P Luyten, MD, PhD4 for the TIG/ACT/01/2000 study group. ICRS Warschau 2007
- Characterized chondrocyte implantation has a similar safety profile to microfracture for the treatment of symptomatic cartilage defects of the knee. Johan Vanlauwe et al. ESSKA Porto 2008
- Comparison of structural repair following characterized chondrocyte implantation or microfracture for the treatment of symptomatic cartilage defects of the knee. Johan Vanlauwe et al. ESSKA Porto 2008

- Magnetic resonance imaging of cartilage repair in the knee: benefits of characterized chondrocyte implantation compared to microfracture. Iwan Van Breuseghem et al. ESSKA Porto 2008

#### Publicaties:

- **J. Vanlauwe**, L. De Smet. The Madelung Deformity: Belgisch Tijdschrift voor Geneeskunde, 1993, 49, 310-314.
- F. Dell'Accio, **J. Vanlauwe**, J. Bellemans, J. Neys, C. De Bari, F.P. Luyten, Expanded phenotypically stable chondrocytes persist in the repair tissue and contribute to cartilage matrix formation and structural integration in a goat model of autologous chondrocyte implantation, Journal of Orthopaedic Research 21 (1) (2003) pp. 123-131.
- Cosimo De Bari, Francesco Dell'accio, **Johan Vanlauwe**, Jeroen Eyckmans, Ilyas Khan, Charles W. Archer, Elena Jones, Dennis Mcgonagle, Thimios Mitsiadis, Costantino Pitzalis, Frank P. Luyten .Single cell lineage analysis reveals mesenchymal multipotency of adult human periosteal cells. Arthritis Rheum. 2006 Apr;54(4):1209-21.
- Bellemans J, Vandenneucker H, Victor J, **Vanlauwe J**. Flexion Contracture in Total Knee Arthroplasty. Clin Orthop Relat Res. 2006 Aug 17; [Epub ahead of print]
- **Johan Vanlauwe**, Fredrik Almqvist, Johan Bellemans, Jean Pierre Huskin, René Verdonk, Jan Victor. BVOT- SOBCOT recommendations for the place of Autologous Chondrocyte Implantation (ACI) in the treatment algorithm of symptomatic cartilage lesions in the knee. Acta Orthop Belg. 2007 Apr;73(2):145-58. Review..
- Hardeman F, Vandenneucker H, **Van Lauwe J**, Bellemans J. Cementless total knee arthroplasty with Profix: a 8- to 10-year follow-up study. Knee. 2006 Dec;13(6):419-21. Epub 2006 Oct 24.
- van den Borne MP, Raijmakers NJ, **Vanlauwe J**, Victor J, de Jong SN, Bellemans J, Saris DB. International Cartilage Repair Society (ICRS) and Oswestry macroscopic cartilage evaluation scores validated for use in Autologous Chondrocyte Implantation (ACI) and microfracture. Osteoarthritis Cartilage. 2007 Jun 29
- Bellemans J, Vandenneucker H, **Vanlauwe J**. Robot-assisted Total Knee Arthroplasty. Clin Orthop Relat Res. 2007 Jun 7
- "Characterized Chondrocyte Implantation Results in Better Structural Repair when Treating Symptomatic Cartilage Defects of the Knee in a Randomized Controlled Trial versus Microfracture" Saris D, **Vanlauwe J**, Victor J et al AJSM 2008, 36(2).