



Name: **GUILLEMOT**

First name: **FABIEN**

Web: <http://www.poietis.com>

EDUCATION

- 2009 Habilitation in Biological and Medical Sciences, University of Bordeaux, France.
- 1998 – 2000 PhD in Materials Science, National Institute for Applied Sciences (INSA) Rennes, France.
- 1998 MS in Solid State and Inorganic Chemistry, INSA Rennes, France.

EXPERIENCE

- 2014 – Present Poietis, Founder, CEO and CSO
- 2009 – Present Senior Research Associate INSERM.
Group Leader: TEAL (INSERM U1026 – Univ. Bordeaux)
- 2010 (Mar-Jul) *Visitor at Cell and Tissue Engineering Laboratory, Prof. D.J. Mooney – Harvard Univ. (USA).*
- 2005 – 2009 Junior Research Associate INSERM.
- 2001 – 2005 Post-doctoral investigator. University of Bordeaux, INSERM U577 Biomaterials and Tissue Repair.
Mentor: Prof. Ch. Baquey
- 2005 (Jan.) *Visitor at Depart. de Física Aplicada i Òptica, Prof. J.L. Morenza – Univ. Barcelona (Spain).*
- 2004 (Feb-Apr) *Visitor at the Research Group in Biomaterials and Biomechanics, Prof. L'H. Yahia - Ecole Polytechnique de Montreal (Canada).*
- 1989 – 2000 Graduate Research Assistant, INSA Rennes, Metallurgy and Chemistry Department
Study and development of new Titanium alloys for biomedical applications. Mentor: Prof. J. Debuigne.
- 1998 Master trainee, INSA Rennes, Metallurgy and Chemistry Department,
Microstructural characterization of new beta titanium alloys. Mentor: Prof. J. Debuigne.
- 1997 EU Erasmus trainee, University of Exeter (England), Dept. of Inorganic Chemistry, Mentor: Dr. R.C.T Slade.

HONORS AND AWARDS

- BPI – MESR : Concours National Création Entreprises de technologies Innovantes – Création Développement (2014)
- OSEO – MESR : Concours National Création Entreprises de technologies Innovantes – Emergence (2012)
- Travel fellowship from French Foreign Affairs Ministry (2003)
- Award from the Fondation de la Recherche Médicale (2003)
- PhD fellowship from French Education and Research Ministry (1998-2001)
- EU Erasmus fellowship for training at University of Exeter, England (1997).

RESEARCH GRANTS (AS PRINCIPAL INVESTIGATOR)

- French National Research Agency (ANR) - TECSAN. Project Bone Printing (2010-2013).
- Aquitaine Council. Project LASIT (2010-2013).
- Advanced Materials in Aquitaine. Project Biomaterials and Tissue Engineering (2008-2012).
- Past grants; Aquitaine Council (2006-09 and 2005-08) ; European Regional Development Fund (ERDF) (2003-2005).

TEACHING EXPERIENCE

Current Lectures: University of Bordeaux (2008 –). Ecole National Supérieure de Chimie, Paris (2009 –), University of Orleans (2012 -).

Guest Lectures on bioprinting and biofabrication: Wyss Institute, Boston (USA), Massachusetts Institute of Technology, Cambridge (USA), Medical University of South Carolina, Charleston (USA), Drexel University, Philadelphia (USA), University of Toyama (Japan), Laval University, Québec (Canada),

MENTORING COLLABORATION AND STUDENT SUPERVISION

Post-Doctoral trainees: B. Guillotin (2008 - 2012) ; N. Berthélémy (2009 - 2011)

PhD candidates: H. Desrus (2013 - 2016), E. Pagès (2012 - 2015), M. Ali (2010 - 2013), V. Keriquel (2010-2013), A. Souquet (2007 - 2010), S. Catros (2007 - 2010), C. Cholet (2004 - 2007).

PROFESSIONAL MEMBERSHIP

Founding Member of the International Society for Biofabrication (ISBF).

Member of the Biofabrication Thematic Group in TERMIS (Tissue Engineering and Regenerative Medicine Society).

Member of ESB (European Society for Biomaterials) and BIOMAT (French Society for Biomaterials, Tissue Engineering and Regenerative Medicine).

REVIEWING ACTIVITIES

Reviewer for peer-reviewed journals: Biomaterials, Tissue Engineering, Advanced Materials, Nanomedicine, Journal of Applied Physics, Biofabrication.

Member of the Editorial Board: [Biofabrication \(IOP\)](#).

MAIN REFEREED PUBLICATIONS (H INDEX: 25)

- [1] F. Guillemot, B. Guillotin, A. Fontaine, M. Ali, S. Catros, V. Kériquel, J.-C. Fricain, M. Rémy, R. Bareille and J. Amédée. “Laser-Assisted Bioprinting to Deal with Tissue Complexity in Regenerative Medicine”. *MRS Bulletin*, vol. 36, 2011, 1015–1019.
- [2] B. Guillotin and F. Guillemot, “Cell patterning technologies for organotypic tissue fabrication”. *Trends in Biotechnology*. vol. 29, 2011, p. 183–90.
- [3] B. Guillotin, A. Souquet, S. Catros, B. Pippenger, S. Bellance, R. Bareille, M. Rémy, L. Bordenave, J. Amédée and F. Guillemot, “Laser Assisted Bioprinting of engineered tissue with high cell density and microscale organization,” *Biomaterials*, vol. 31, 2010, p. 7250-7256.
- [4] F. Guillemot, A. Souquet, S. Catros, B. Guillotin, J. Lopez, M. Faucon, B. Pippenger, R. Bareille, M. Rémy, S. Bellance, P. Chabassier, J. Fricain and J. Amédée, “High-throughput Laser Printing of Cells and Biomaterials for Tissue Engineering”, *Acta Biomaterialia*, vol. 6, 2010, p. 2494-2500.
- [5] F. Guillemot, A. Souquet, S. Catros and B. Guillotin, “Laser-assisted cell printing: principle, physical parameters vs. cell fate, and perspectives in tissue engineering”, *Nanomedicine*, vol. 5, 2010, p. 507-515.
- [6] C. Chollet, S. Lazare, F. Guillemot and M.C. Durrieu, “Impact of RGD micro-patterns on cell adhesion”, *Colloids and Surfaces B: Biointerfaces*, vol. 75, (1) 2010, p 107-114.
- [7] V. Kériquel, B. Guillotin, I. Arnault, S. Miraux, J. Amédée, F. Guillemot, J. Fricain and S. Catros, “In Vivo High-Throughput Biological Laser Printing of Nano-Hydroxyapatite in mice calvarial defects.”, *Biofabrication*, 2010, 2(1), p. 014101.
- [8] M. Grellier, N. Ferreira-Tojais, C. Bourget, R. Bareille, F. Guillemot and J. Amédée, “Role of vascular endothelial growth factor in the communication between human osteoprogenitors and endothelial cells”, *Journal of Cellular Biochemistry*, vol. 106, 2009, pp. 390-398.
- [9] C. Rossignol, N. Chigarev, M. Ducouso, B. Audoin, G. Forget, F. Guillemot and M.C. Durrieu, “In Vitro picosecond ultrasonics in a single cell”, *Applied Physics Letters*, vol. 93, 2008, p. 123901-3.
- [10] F. Guillemot, “Recent advances in the design of titanium alloys for orthopedic applications”, *Expert Review of Medical Devices*, vol. 2, 2005, pp. 741-748.