

## **ALEXANDRE BARRAS**

Gender: Male, age: 36

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### **Professional Preparation:**

Lille School of Medicine, France	AUEC Animal Experiment Agreement (level 1)	2015
Lille University (II), France	Ph.D. (biomolecules – pharmacology – therapeutics)	2009
Lille University (I), France	M.Sc. (organic chemistry)	2006

### **Appointments:**

Since 01/2015	<b>Research Engineer (IR2)</b> , CNRS – IEMN UMR 8520
12/2010-31/2014	<b>Research Engineer (IR2)</b> , CNRS – IRI USR 3078
10/2009-11/2010	<b>Post doctoral position</b> , CNRS – IRI USR 3078
09/2006-09/2009	<b>Ph.D.</b> , CNRS – IBL UMR 8161

### **Other relevant information:**

- Co-author of ca. 95 peer-reviewed scientific papers, 3 book chapters/reviews and 1 proceeding (h-index 25)
- Areas of Expertise: Organic chemistry, surface chemistry, chemical ligation and drug design, formulation and characterization of nanoparticles, drug delivery and cell biology
- Press Article in CNRS International Magazine (n°30 – Quarterly July 2013 – Page 10: <http://www.cnrs.fr/fr/pdf/cim/30/index.html#/10/>)
- Invited Conference - Vocation Award in Medicinal Chemistry (Research Institute Servier)

### **List of 5 most important papers:**

1. **Improved photodynamic effect through encapsulation of two photosensitizers in lipid nanocapsules.** Barras, A.; Skandrani, N.; Gonzalez Pisfil, M.; Paryshak, S.; Dumych, T.; Haustrate, A.; Héliot, L.; Gharbi, T.; Boulahdour, H.; Lehen'kyi, V.; Bilyy, R.; Szunerits, S.; Bidaux, G.; Boukherroub, R. *Journal of Materials Chemistry B*. **2018**, 6(14), 5949 – 5963.
2. **High efficiency of functional carbon nanodots as entry inhibitors for Herpes simplex virus type 1.** Barras, A.; Pagneux, Q.; Sane, F.; Wang, Q.; Boukherroub, R.; Hober, D.; Szunerits, S. *ACS Applied Materials & Interfaces*. **2016**, 8(14), 9004 – 9013.
3. **Hypericin-loaded lipid nanocapsules for the photodynamic cancer therapy in vitro.** Barras, A.; Boussekey, L.; Courtade, E.; Boukherroub, R. *Nanoscale*. **2013**, 5, 10562 – 10572.
4. **One-pot synthesis of gold nanoparticle/molybdenum cluster/graphene oxide nanocomposite and its photocatalytic activity.** Barras, A.; Das, M.R.; Devarapalli, R.R.; Shelke, M.V.; Cordier, S.; Szunerits, S.; Boukherroub, R. *Applied Catalysis B: Environmental*. **2013**, 130 – 131, 270 – 276.
5. **Functionalization of diamond nanoparticles using "click" chemistry.** Barras, A.; Szunerits, S.; Marcon, L.; Monfilliette-Dupont, N.; Boukherroub, R. *Langmuir*. **2010**, 26(16), 13168 – 13172.