

Dr. Benjamin Rohaut

Neuro-intensivist and Neuroscientist (M.D. Ph.D.)

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Professional Experience:

- **Post-doctorat** at [Columbia University](#), New York; Director: Prof. Jan Claassen (actual position since December 2016)
- **Post-doctorat** at [ICM](#), Paris; Director: Prof. Lionel Naccache (November 2015 – December 2016)
- **Clinical Fellowship -Assistant Professor in Neuro-ICU (CCA)**; Neurological Department of La [Pitié-Salpêtrière](#) Hospital ([AP-HP](#)), [University Pierre et Marie Curie \(UPMC\) - Paris-6](#) (Prof. Baulac / Prof. Lubetzki & Dr. Bolgert; November 2012 - October 2015)
- **Ph.D. in Cognitive Neuroscience** at ICM, Director: Prof. Lionel Naccache. Subject: *Neurophysiology of conscious and nonconscious semantic processing*; UPMC-Paris 06, Paris (November 2010- October 2015)
- **Clinical Fellowship in general ICU** (Praticien attaché temps plein) at La Pitié-Salpêtrière Hospital, Paris (Prof. Similowski; November 2009- October 2010)
- **Medical Residency** at La Pitié-Salpêtrière Medical School, UPMC-Paris 06 (November 2004- October 2009)

Education:

- **Ph.D. in Cognitive Neuroscience**, University Pierre et Marie Curie, UPMC-Paris 06, France, 2015
- **M.D.** at UPMC, Specialties: **Neurology** (DES; 2009) & **Intensive Care Medicine** (DESC; 2013)
- **Master-II: Sciences & Technologies. Integrative Biology & Physiology**, Specialty: Neurosciences, UPMC-Paris 06, 2008
- **Master-I: « Anatomy & Imagery of Central Nervous System »**, UPMC-Paris 06, 2006
- National Medical Concourse – “ENC”: 490th/ 3500 candidates, 2004
- **Master-I: « Physiology of integrated systems »** UPMC-Paris 06, Pr Baud, 2001
- Admitted in Saint Antoine UPMC-Paris 06 Medical school (concourse, 24th/600), 1999

Scientific interests:

- Evaluating and monitoring brain dysfunction in ICU patients
- Probing residual cognitive abilities in patients suffering from disorder of consciousness following brain-injury & Neuroprognostication in ICU

Scientific Collaborations:

- **McDonnell JSMF-Project** since 2013: International collaboration exploring Disorder of Consciousness lead by Prof N.Schiff, NY, USA. (French Team lead by Prof L.Naccache)
- **GENER** (Groupe d'Exploration Neurologique en Réanimation) since 2013: French collaboration between Neurointensivists, Neurologists, Intensivists, Neurophysiologists, Neuroradiologists and Psychiatrists exploring Neurological dysfunction in Critically ill Patients (Lead by Prof. T.Sharshar et Prof. J.Mantz)

Main Scientific Publications: (details available on [Google Scholar](#)) :

- Rohaut B, ... Naccache L. *Probing consciousness in a sensory-disconnected paralyzed patient*. Brain Injury. In press
- Rohaut B, ... Mantz J, Sharshar T. *Brainstem response patterns in deeply-sedated critically-ill patients predict 28-day mortality*. PloS one 12 (4), e0176012
- Rohaut B, ... Naccache L. *Unconscious semantic processing of polysemous words is not automatic*. Neuroscience of Consciousness. 2016 , niw010
- Rohaut B, ... Naccache L. *Probing ERP correlates of verbal semantic processing in patients with impaired consciousness*. Neuropsychologia. 2015 Jan;66:279-92
- Sitt JD, King JR, El Karoui I, Rohaut B, ... Naccache L. *Large scale screening of neural signatures of consciousness in patients in a vegetative or minimally conscious state*. Brain. 2014 Aug;137(Pt 8):2258-70
- King JR, Sitt JD, Faugeras F, Rohaut B, ... Dehaene S. *Information sharing in the brain indexes consciousness in noncommunicative patients*. Curr Biol. 2013 Oct 7;23(19):1914-9
- Faugeras F, Rohaut B, ... Naccache L. (2012). *Event related potentials elicited by violations of auditory regularities in patients with impaired consciousness*. Neuropsychologia, 50(3)403-18
- Faugeras F, Rohaut B, ... Naccache L. (2011). *Probing consciousness with event-related potentials in the vegetative state*. Neurology, 77(3), 264-268
- Sharshar T, Porcher R, Siami S, Rohaut B, ... Annane D (2011). *Brainstem responses can predict death and delirium in sedated patients in intensive care unit*. Critical Care Medicine, 39(8), 1960-1967
- Bekinschtein TA, Dehaene S, Rohaut B, ... Naccache L. *Neural signature of the conscious processing of auditory regularities*. PNAS. 2009 Feb 3;106(5):1672-7