

# Samantha BECK

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Date of birth: September the 8<sup>th</sup>, 1984  
French and Polish Citizen

## EDUCATION

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- 2006 **1<sup>st</sup> year of Master of Biological Engineering and Molecular Biology**  
*UNIVERSITÉ PAUL SABATIER Toulouse, France*
- 2005 **Bachelor of Biological Engineering and Molecular Biology**  
*UNIVERSITÉ PAUL SABATIER Toulouse, France*
- 2004 **BTEC Higher National Diploma of Biology Engineering**  
*UNIVERSITE PARIS XII, France*

## SELECTED TECHNIQUES

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- Cellular Biology** Mammalian cell culture, RNA transfection, Cytotoxicity and Apoptosis test, Tests of migration and invasion, Growth of skin explants
- Histology** Cryostat sectioning, In Situ Hybridization, Immunofluorescence and Immunocytochemistry
- Molecular Biology** RNA and DNA isolation, Proteins isolation, Primer design, Cloning techniques, Northern Blot, Western Blot, Reverse-transcription, PCR, Quantitative PCR
- Imaging** Macroscopic and Microscopic, Visual function analysis by ERG, Retinal examination at high resolution by OCT, Examination of the different compartments of the eye with an endoscope
- Developmental Biology** Electroporation of embryos at early stages, In ovo experiments, Microdissection
- Animal Investigations** Murine models: kidney failure, mammary and brain tumorigenesis, Behaviour, Intravenous, per os, intraperitoneal injections, Tumor growth monitoring, Organ sampling, Blood pressure monitoring

## WORK EXPERIENCE

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- Since Nov 2013 **Engineer and lab manager in Dr Manceau laboratory.** *Collège de France, Paris.*  
- Investigated the formation and development of color patterns in passerine birds and quail.  
- Conceived and set up experimental protocol of skin explants culture.  
- Set up of laboratory equipment and technical maintenance.  
- Set up Bird house, managed crossbreeding and assured technical maintenance.  
- Trained 2 postdoctoral fellows on in ovo experiment under GLP conditions.
- Nov 2011 to Oct 2012 **Engineer on Phenotyping platform at Vision's Institute, Paris.**  
- Characterization of the retinas of rodents with imaging.  
- Coordinated studies for teams of the institute  
- Collaborated study with Fovea Pharmaceutical (Sanofi-Aventis) on Glaucoma.
- Sept 2010 to Oct 2011 **Engineer in Dr Carpentier laboratory.** *European Hospital G. Pompidou, Paris*  
- Development of an immunotherapy for the treatment of solid brain tumors.  
- Set up experimental protocols of brain surgery  
- Dealt with clinical trial phase III on patients for Roche pharmaceuticals  
- Published in Nucleid Acid Therapeutics
- March to August 2010 **Senior Research Technician in Servier Pharmaceuticals.** *Paris.*  
- Pharmacological trials on mice.  
- Confirmed molecules for the next trial step.
- January 2009 To Feb 2010 **Research Technician in Dr Chatziantoniou laboratory.** *Tenon Hospital, Paris.*  
- Investigated the role of connexin 43 in kidney failure, in vitro and in vivo.  
- Contributed to the results of the PhD student's thesis.  
- Published in Renal Physiology - American Journal of Physiology.
- Feb 2007 to Dec 2008 **Research Technician and lab manager in Dr Vagner laboratory.** *Claudius Regaud center, Toulouse.*  
- Investigated aggressiveness of invasive breast tumors, in vitro and in vivo.  
- Contributed to the results of the PhD student's thesis.  
- Conceived and set up experimental protocol of implantation of cells cancer in mice.  
- Published twice in Cancer Research.  
- Technical maintenance of the laboratory.  
- Trained 2 student fellows on cell biology techniques under GLP conditions.
- Sept 2006 to Feb 2007 **Research Technician in Sanofi-Aventis Pharmaceuticals.** *Toulouse.*  
- Investigated receptors involved in obesity.

## ADDITIONAL EXPERIENCES

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### **Volunteering work experience**

- *Since Sept 2014* : Organizer of sociolinguistic workgroups for migrant workers (non-profit organization **Autremonde**)
- *Nov 2012 - May 2013*, **Help Exchange Network**: Volunteering work with associations, families and small businesses across Europe (divers: English lessons to children, guide in a natural park, organizer of events in hostels...)

### **Languages**

- French: mother tongue
- Polish: basics
- English : fluent
- Spanish: basics

## PUBLICATIONS

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- Maubant S, Banissi C, **Beck S**, Chauvat A, Carpentier AF. Adjuvant Properties of Cytosine-Phosphate-Guanosine Oligodeoxynucleotide in Combination with Various Polycations in an Ovalbumin-Vaccine Model. *Nucleic Acid Ther.* 2011 Jul 25.
- Zindy P, Bergé Y, Allal BC, Filleron T, Pierredon S, Cammas A, **Beck S**, Mhamdi L, Fan L, Favre G, Delord JP, Roche H, Dalenc F, Lacroix-Triki M, Vagner S. Formation of the eIF4F translation initiation complex determines sensitivity to anti-cancer drugs targeting the EGF and HER2 receptors. *Cancer Res.* 2011 Apr 15.
- Toubas J, **Beck S**, Pageaud AL, Huby AC, Mael-Ainin M, Dussaule JC, Chatziantoniou C, Chadjichristos CE. Alteration of connexin expression is an early signal for chronic kidney disease. *Am J Physiol Renal Physiol.* 2011 Mar 23.
- Dutertre M, Lacroix-Triki M, Driouch K, de la Grange P, Gratadou L, **Beck S**, Millevoi S, Tazi J, Lidereau R, Vagner S, Auboeuf D. Exon-based clustering of murine breast tumor transcriptomes reveals alternative exons whose expression is associated with metastasis. *Cancer Res.* 2010 Feb 1;70(3):896-905.

## REFEREE'S CONTACT INFORMATION (can be contacted before interview)

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- Dr. Marie Manceau (supervisor)  
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