

## CV Hélène Blons

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### Professor Hélène Blons

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49 year olds, 3 children

Full Professor (PU-PH university Paris Descartes/AP-HP)

Head of functional unit of hEGP: pharmacogenetics and molecular oncology

Doctor in Pharmacy from university Paris Descartes, Resident from Paris Hospitals.

## PROJECT

Professor Hélène Blons translational and clinical projects are focussing on: the identification of new molecular markers of sensitivity or resistance to targeted therapy in lung and digestive cancers/ the identification of pronostic and subclassification of lung adenocarcinoma/ the study of the role of circulating tumor DNA for the follow-up of patients with cancers (colon and lung) Her fundamental project is centered on the study of the eptithelial mesenchymal transition in non small cell lung cancer including molecular mechanisms, regulation (role of microRNA) and phenotypic dompact (prognosis, metastasis and response to treatment) es microARN). She is heading the functional Unit (UF) "Pharmacogenetics and molecular oncology" that is part of the biochemistry unit directed by Pr Marie-Anne Lorient (also member of our laboratory). The exams realized in the structure are used as marker of responses to treatments used in oncology and in other pathology (auto-immune diseases, transplantation, cardiology, ...). In oncology, the genotyping activity concerns both somatic mutations (tumor biopsies, circulating DNA) and constitutive mutations in the frame of the perscription of targeted therapies and conventional chemotherapies. This structure is composed of 4 PU PH (MDs), 1 PUPH (PharmD), one AHU, one PH, one "Praticien attaché" and five full time equivalent technicians. It is affiliated to several networks (ONCOMolPath, GENTISS, GFCO, National network of Pharmacogénétic (RNPGx) and ANPGM).

## CURRICULUM VITAE (updated Oct. 2019)

### SCIENTIFIC TRACK

102 scientific publications in peer reviewed journal, SIGAPS scoring of **1234** (975 in 2016), >3300 citations; h-index = 31 (web of science), average citation per item> 2

> 11 Invited Talks since 2016

> 20 Master /Bachelor students advised; 5 scientific PhD advised (1 received the "**Prix de la Chancellerie Suzy et Guy Halimi / Aguirre Basualdo**", 2 on-going), 5 PhD in medicine advised (1 on-going), regular supervision of scientists staff both in university research unit (1 in full supervision) and in hEGP functional unit (13)

### QUALIFICATIONS

2014 Habilitation to direct researches (HDR). "Somatic genetics, personalized medicine and eptithelial mesenchymal transition in pulmonary tumors"

2001 PhD in head and neck cancer genetics. U490, University Paris Descartes (Paris V),

1999 Master 2 and PharmD diploma

1994-1999 DES (Medical Biology)

1993 MSBM, Pharmacy study, Faculty of Pharmacy, Paris Descartes university, Resident from Paris Hospitals.

## **HOSPITAL ACTIVITIES**

2002-2004 **Full position Hospital assistant** specialized in hospitals (AHU, Biochemistry unit, Trousseau Hospital, Paris)  
"Genetic diagnosis of deafness, cystic fibrosis, pediatric biochemistry"

2004-2007 **Assistant-Hospitalo-Universitaire** (Biochemistry unit, UF of pharmacogenetics and molecular oncology, HEGP, Paris)

2007-2016 **Assistant Professor, MCU-PH** (Biochemistry unit, UF of pharmacogenetics and molecular oncology, HEGP, Paris)

2008 **Agreement for the examination of genetic characteristics for medical aims** by molecular genetics limited to pharmacogenetics and molecular oncology (Arrêté n°2008-620, renewed in 2013)

2016- **Full professor, PU-PH** (Biochemistry unit, head of the UF of pharmacogenetics and molecular oncology, HEGP, Paris)

## **TEACHING, MENTORING AND TRAINING ACTIVITIES**

PACES (1st year medical studies): Courses (UE1-UE8), preparation of final selective examination, training of ATER

DFGSM2 ET M1 (2nd and third year of medical studies): Course UMR3 of cell biology S2

DU, DIU (university diploma): Courses on "molecular oncology" (Carpem) ; "oncobiology" (Faculty of Strasbourg) ;  
"Medico-surgical Thoracic Oncology"; "Approaches based on NGS"

Master 1, Master 2: Courses in Cell Biology, Physiology and Pathology, University Paris Diderot

IFSI: Courses in fundamental biology

MOOC: "Somatic genetic of tumors", Massive Open Online Course Paris Diderot

Residents and CCA: teaching and training in biology of HEGP residents

DES- SIDES: on line courses on molecular markers of cancer for "DES in biology" (consolidation phase) and "oncology DES"

Enseignement post universitaire: Course for city MDs, in the frame of AERIO

## **PRIZES/AWARDS**

2000-2002 INSERM "Poste d'accueil"

1999 Residency Medals 1999

1996 "Année recherche" (Master 2)

## **INSTITUTIONAL RESPONSIBILITIES/ EXPERTISE/COMMISSIONS OF TRUST**

Member of the PAIR VADS committee 2011 (INCa)

Member of the scientific committee of the Oncomolpath network (INCa platform of APHP)

Member of the director board of the IFCT ("Intergroupe Francophone de Cancérologie Thoracique") 2013-2015

Member of the scientific committee of the IFCT ("Intergroupe Francophone de Cancérologie Thoracique") since 2015

Member of the "commission des effectifs" from the HEGP 2016-2018

Deputy referent of the LGM Sequoia (Genomic Platform of Paris Area/ France génomique plan 2025) for APHP

Nominated member of the national thematic committee of the ARC foundation CN5

Member of the jury of the Hélène Starck prize for young researcher days of the ARC foundation in 2018

Nominated member of the scientific evaluation committee of the League National against cancer (grand Est)

Member of the committee PAIR VADS 2011 (INCa)

Evaluation of projects for INCa; French League National Against cancer; ERC grant (2018)

## **ACCREDITATION ACTIVITIES, COFRAC**

Member of the redaction committee of methodological validation in molecular oncology for accreditation according to the 15189 norm (INCa)

Member of the steering committee of external national control of GenTiss quality since 2012.

Member of the evaluation committee of MET, ALK, BRAF and POLE mutations in the Acsé programs (INCa)

