

**Jean-Pierre COUTY, Ph.D** Born in November 26th, 1972, 2 Kids, Violette and Rose

Centre de Recherche des Cordeliers (CRC)  
Department Genome and Cancer  
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## EDUCATION

2014 - «Certificate to supervise research programs, Habilitation à Diriger des Recherches (HDR)  
1995 - 1999 - **Ph.D**, University of Limoges, Science-Biologie-Santé

## RESEARCH EXPERIENCE

2004 - - **Associate professor**, Université de Paris, Centre de Recherche des Cordeliers (CRC), INSERM 1138  
2001 - 2004 - **Postdoctoral fellow**, Institut Cochin, Paris.  
1999 - 2001 - **Postdoctoral fellow** at the Weill Medical College of Cornell University, New York, USA

## AWARDS AND FELLOWSHIPS

2017-2021 : Prime d'Encadrement Doctoral et de Recherche PEDR  
2001 - 2003 – Postdoctoral Fellowship from ARSEP, 2000 - 2001 – Award from The N and R Winston Foundation Biomedical Research USA, 1999 - 2000 – Postdoctoral fellowship from ARC foundation, 1995 - 1999 – Doctoral fellowship from The Conseil Régional du Limousin

**BIBLIOMETRICS FIGURES (H INDEX CITATIONS)** **H index citations 14** (ISI web of Knowledge), 33 Publications, Over 871 Citations, Major recent publications (IF>10): Journal of Hepatology (2021), Hepatology (2019), Cell Report (2018), Nature Cell Biology (2015), JCI (2012).

## FUNDINGS

Ligue contre le Cancer, 2003-2005 et 2006-2013 (PI : C Perret), AFEF 2010 et 2013 (PI : JP Couty), INCa 2014-2017, PLBIO (PI : JP Couty), Fondation ARC, 2014-2015 (PI : JP Couty), Ligue Contre le Cancer, Fellowship 2015-2016 (PI : JP Couty), Cancéropôle contrat Emergence, 2015-2016 (PI C Desdouets), ANR « Vie, Santé et bien être » 580 K€ , 2016-2020 (PI C Desdouets), Plan Cancer, HTE partenaire 2017-2020, (PI Pr. J Zucman-Rossi, JP Couty Partner), Fondation ARC 2017-2019 (PI : JP Couty), Ligue Contre le Cancer Comité de Paris 2017-2019 (PI : JP Couty), , Equipe Labellisée Fondation Recherche Médicale FRM 2019, AFEF 2019-20 (PI :JP Couty), Idex Emergence en recherche 2021-22 (Université de Paris) (PI : JP Couty), Cancéropôle Emergence 2021 (PI : JP Couty), ANR CE14 2021 (PI : JP Couty), INCa PLBIO 2021 (Partenaire).

## TEACHING & TUTORING

2004 - Present - **Assistant professor, full time**, Université de Paris (campus Diderot), Cell biology and Immunology  
2003 - 2004 - **Non permanent Lecturer**, UFR SDV, University Paris Diderot.

## PUBLICATION REVIEWER :

Cell Report, Journal of Clinical Investigation, PLOS one, Hepatology, Journal of Hepatology, Journal of Experimental Medicine, Diabetes, American Journal of Pathology, Diabetes, Oncoimmunology, FASEB, Oncoimmunology, Nature Communications, Diabetologia, Scientific Reports, Gut, Gastroenterology, Cancer Research

## GRANT REVIEWER :

- Association Française des Etudes sur le foie (AFEF), Regional Research program France, ERC Consolidator grants, ANR programme Vie Santé et Bien-être, Medical Research Council MRC, UK, Ligue Contre le Cancer (Région Rhones alpes), Fondation de l'Avenir, programmes régionaux, Programme Emergence Ville de Paris.

**MENTORING** : 4 Ph. D defenses and 2 *in progress*, 10 Master 2R Immunology and 1 *in progress*, 5 Master 1 Immunology, 13 BTS

## ACADEMIC MEMBERSHIP:

- Elected member of the board of Scientific council and UFR Sciences du Vivant, University Paris-Diderot, Member of committee of assistant professorship CNU 64, 65, Member of Doctoral school BioSPC and « Science de la vie et de la santé (SVS) », Delegate for HDR diploma, UFR SDV Paris Diderot University, - Member of AFEF (Association Française pour l'Etude du Foie), Member of EASLD (European Association of Scientific Liver Diseases), Member of ILCA (International Liver Cancer Association), Member of Cancer Research and Personalized Medicine (CARPEM), Member of CSS5 INSERM Immunology, Inflammation, Infectiologie and Microbiology.

**SCIENTIFIC COMMITTEE** : HDR jury (6 candidates), Ph.D defense jury (12 students), Scientific Expert comité scientifique Ligue Contre le Cancer Région Rhône Alpes Auvergne (2019-today), Association Française des Etudes du Foie (AFEF) scientific expert and member of administrative council 2021.

## NATIONAL & INTERNATIONAL COLLABORATIONS

Jessica Zucman-Rossi (Inserm U1162, Paris), Pr. Valérie Paradis (INSERM Beaujon), Beatrice Romagnolo (Cochin Institute, Paris), Satoshi Yamagoe (NIH, Japan), Catherine Postic (Cochin Institute), Philippe Gual (Inserm Nice), Nadia Guerra (Imperial College London), Julien Calderaro (IMRB, Créteil H Mondor).

**ELABORATION OF INTERNSHIP SCHOOL FOR PH.D STUDENTS:** HTE plan Cancer INSERM Tumor Environment and Immunity, March 2019, March 11-13rd FIAP Jean Monnet Paris.

### INVITED SEMINARS :

- **Couty JP**, Hôpital Avicennes, Bobigny, “Système NKG2Dligand/NKG2D dans l’immunosurveillance du CHC”, Mai 2021, invité par Pr. JC Nault et Pr. N Ganne, Chef de service Hépatogastroentérologie”.

- **Couty JP**, Paris, Pitié-Salpêtrière, Février 2021 Département d’hépto-gastroentérologie, « DNA lesions, Immunosurveillance from NAFL/NASH to HCC development », invité par Pr. Dominique THABUT.

- **Couty JP**, Milan Université de Bicocca Octobre 2020 « Microenvironnement, immunity, metabolism and liver cancer», Invité par Pr. Paolo Tortora.

- **Couty JP**, Paris, FIAC, Hétérogénéité Tumorale des écosystèmes, School Immuno-Cancer, Mars 2019, « Immune microenvironment and liver cancer progression » organisateurs JP Couty et Emmanuel Donnadiou.

- **Couty JP**, London, Imperial College London, Novembre 2017 « Role of LECT2 during Liver cancer progression », Invité par Dr. Nadia Guerra, seminar UCL.

**Couty JP**, Milan San Raffaele Institute, DIBIT, 17 Mai 2017 « Role of LECT2 during liver tumorigenesis », Invité par Pr. Paolo Dellabona, Scientific director of Unit Tumor Immunology.

- **Couty JP**, Nice, C3M, 12 Mai 2017, invité par Dr Philippe Gual « Role of LECT2 during NAFLD/NASH sequence ».

-**Couty JP**, Tel-Aviv Israel, Mars 2016, partenariat France/Israel, Programme Hubert Curien Maimonides 2017 « Immunity, Cancer and ageing », Invité par l’ambassade de France en Israel pour séminaire instituts Israéliens.

- **Couty JP**, Paris Hôpital Saint-Antoine, Staff de Medicine service de Gastroenterologie, Octobre 2016, « Role of LECT2 during liver tumorigenesis » invité par Dr Sara Lemoine.

- **Couty JP**, Paris Hôpital Jean Verdier, Staff de Medicine service de Gastroenterologie, Juin 2016, « Role of LECT2 during liver tumorigenesis » Invité par Pr. Jean Charles Nault (PU-PH).

### PUBLICATIONS (most recent)

-Pham S, L’Hermitte A, ...**Couty JP**. Lect2 controls hepatic lipogenesis through the liver-X receptor signaling pathway. *Cell Reports Under revisions*

-Cadoux M, Caruso S, Pham S, ....**Couty JP**. NKG2D ligands expression is downregulated by beta-catenin signaling and correlates with HCC aggressiveness in mice and human. *J Hepatol* 2021,74(6):1386-1397. **IF 20.5**

-Bou-Nader M, Caruso S, Donne R, Celton-Morizur S, Calderaro J, Gentric G, Cadoux M, L’Hermitte A, Klein C, Guilbert T, Albuquerque M, Couchy G, Paradis V, **Couty JP**, Zucman-Rossi J, Desdouets C. Polyploidy Spectrum: a new marker in HCC classification. *Gut* 2020 Feb;69(2):355-364. **IF 17**

-L’Hermitte A, .....**Couty JP**. Lect2 controls inflammatory monocytes to constrain the growth and progression of hepatocellular carcinoma. *Hepatology* 2019 Jan;69(1):160-178. **IF 14,7**

-Maillet V, .... **Couty JP**, Celton-Morizur S, Perret C, Desdouets C. LKB1 as a gatekeeper of hepatocyte proliferation and genomic integrity during liver regeneration. *Cell Rep*. 2018 Feb 20;22(8):1994-2005. **IF 8**

-Lévy J, ....M, **Couty JP and Romagnolo B**. Intestinal inhibition of Atg7 prevents tumor initiation through a microbiome-influenced immune response and suppresses tumor growth. *Nature Cell Biology* 2015, 17(8):1062-73. **IF 20,04**

-Iroz A, **Couty JP**, Postic C. Hepatokines: unlocking the multi-organ network in metabolic diseases. *Diabetologia*, 2015;58(8):1699-703. **IF 6**

### Major achievements

Jean-Pierre COUTY has his own group (Immune Microenvironment and Liver Cancer) within the team of C Desdouets “Proliferation, Stress and liver physiopathology” at the Centre de Recherche des Cordeliers (CRC). He has a strong experience in the field of Liver Tumor Immunology and beta-catenin-induced HCC using mouse models (Anson M et al., *J Clin Invest* 2012, L’Hermitte A et al., *Hepatology* 2019, Cadoux M, et al. *J Hepatol* 2021). Since 2014, he has extended his field of research on Immunosurveillance and pathological liver ploidization in close collaboration with C. Desdouets (Bou Nader M et al. *Gut* 2020). More recently, his work on the role of Lect2 during HCC led him to study NAFLD/NASH conditions evolving to HCC emergence, showing that Lect2 controls cholesterol metabolism in a LXR dependent manner (Pham S et al., 2020 *under revisions*). He has also gained skills on immune microenvironment during colorectal cancer development in a context of inhibition of autophagy process in the gut in a strong collaboration with Dr. B. Romagnolo (Lévy J et al., **Couty JP** and Romagnolo B, *Nature Cell Biology*, 2015.). Jean-Pierre Couty has been involved in several national and international projects related to HCC development and liver microenvironment studies (INCa, EVA Plan Cancer, Idex Emergence, Canceropole, ARC, Ligue, AFEF and ANR). Our team is a member of the **CARPEM program** (for Cancer Research and Personalized Medicine) from the National Cancer Institute ‘s SIRIC.