

# Curriculum Vitae – Ghislaine Scélo

## PERSONAL INFORMATION

11 quai Rambaud, 69002 Lyon, France

ghislaine.scelo@gmail.com

+33 7 69 57 21 51

## JOB APPLIED FOR

Visiting Professor and Scientist

ID CON 20/0015 – INSEGNAMENTO: Design and analysis of cancer epidemiological studies involving multi-omics data

## WORK EXPERIENCE

02/2009 – present

### Scientist

**International Agency for Research on Cancer (IARC), Lyon, France**

#### Genetic Epidemiology Group

- Epidemiological field work:

Design and coordinate multicentre, multinational case-control study recruitment (lung, kidney, pancreatic and childhood cancers)

Supervise the sample processing and preparation

Manage the biorepository of the Genetics Section, which contains approximately 850,000 biosamples

Organize the collection and manage the associated epidemiological, clinical, and follow-up data

- Project design and conduct:

Design epidemiological and genetic cancer research projects for primary and secondary prevention

Seek appropriate funding

Initiate collaborations with internal or external laboratories

Supervise or conduct the statistical analysis

Prepare scientific publications

- Main research projects:

Kidney cancer genetic susceptibilities (NCI R01 grant, PI; NCI R21 grant, co-investigator; France Génomique grant, co-investigator)

Kidney cancer genomics (EC FP7 grant, partner; CRUK Grand Challenge grant, partner; France Génomique grant, PI)

Pancreatic cancer risk factors (NCI R01 grant, co-investigator)

Pancreatic cancer early detection (internal funds)

Colorectal tissue mutations in healthy donors (La Ligue grant, co-investigator)

01/2007 – 01/2009

### Post-doctoral fellow

**University of California, Berkeley (UCB), Berkeley, CA, USA**

#### School of Public Health

- Environmental exposures and genetic susceptibility in the Northern California Childhood Leukemia Study (case-control study):

Managed the data and conducted statistical analyses

Participated in the assessment of parental occupational exposures

Preparation of scientific publications

- Childhood Leukemia International Consortium (CLIC):

Assisted in planning the data pooling

Coordinated the activities of the AML/APL interest group

Active member of the environment exposure group and occupational exposure group

09/2002 – 12/2006

### Special trainee

**International Agency for Research on Cancer (IARC), Lyon, France**

#### Gene-Environment Epidemiology Group (GEE)

- Managed the data and analyses of second primary cancer risk in an international study; preparation of scientific publications on rare cancers

- Analysed data from the Swedish Construction Worker Cohort for the effect of

- lifestyle factors on the risk of rare cancers
- Managed and analysed genetic data from the INternational Head And Neck Cancer Epidemiology (INHANCE) study (pooled data of 9 case-control studies with information on 26 SNPs)
- Compiled descriptive data on kidney and bladder cancers, using the WHO mortality database, the database of Cancer Incidence in 5 Continents, and the database of cancer survival from EUROCARE-3 study
- Analysed data from a multicentre case-control study in Central and Eastern Europe for the effect of occupational exposures on the risk of lung cancer

07/2002 **Research assistant**  
**Université Claude Bernard Lyon 1 (UCBL), Lyon, France**  
**Epidemiology and Public Health Unit**  
**Collaboration with Aventis-Pasteur**

- Prepared a dataset from a survey on parental views and opinions on a new hepatitis B vaccine for infants
- Analysed data and prepared internal report

02/2002 – 06/2002 **Student in training**  
**Université Claude Bernard Lyon 1 (UCBL), Lyon, France**  
**Epidemiology and Public Health Unit**  
 Analysed data from a surveillance network of surgical site infections in Lyon hospitals to investigate predictive variables of infection and create a predictive score; preparation of the scientific publication

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#### EDUCATION AND TRAINING

10-2003 – 09/2006 **Universités Paris XI (Paris-Sud) and Paris V (René Descartes), School of Epidemiology, Social Sciences, and Public Health, Villejuif, France**  
**Ph.D. in Epidemiology**

09/2002 – 06/2003 **Universités Paris XI (Paris-Sud), Paris V (René Descartes), and Paris I (Panthéon-Sorbonne), Villejuif, France**  
**DEA in Public Health, Epidemiology (equivalent to M.S.)**

09/1997 – 06/2002 **Université de Bretagne Occidentale, Brest, France and Université Claude Bernard Lyon 1, Lyon, France**  
**DEUG in Biology and Maîtrise in Public Health (equivalent to B.S.)**

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#### PERSONAL SKILLS

**MOTHER TONGUE** French  
**OTHER LANGUAGES** English: fluent – United Nation Language Proficiency Exam  
 German: basic  
**MANAGERIAL SKILLS** Currently supervisor of five staff members (one scientist, one bioinformatics, one data manager, two laboratory technicians) and four fellows and students (three post-doctoral fellows and one master student)  
**COMPUTER SKILLS** Statistical packages: SAS (proficient); Stat (basic user); R (basic user)

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#### ADDITIONAL INFORMATION

**TEACHING EXPERIENCE**  
 04/2017, 2018 and 2019 Interuniversity Diploma in Genito-Urinary Oncology (Gustave Roussy and University Paris-Sud), teacher for kidney cancer epidemiology  
 07/2010 – 07/2017 IARC Summer School on Cancer Epidemiology, Faculty  
 06/2016 IARC 50 for 50: Empowering future cancer research leaders, co-organizer of the workshop “Safeguarding the Integrity of Research and Research Participants”  
 07/2005, 2006 and 2009 IARC Summer School on Cancer Epidemiology, Associate Faculty

#### ADDITIONAL EXPERIENCE

09/2012 – present IARC Ethics Committee, member  
 01/2011 – present IARC Biobank Steering Committee, member  
 01/2011 – present IARC Selection Committee, ad hoc contributions to represent the Director or the Staff Association on hiring junior scientists  
 02/2006 – present Journal reviewer, Cancer Epidemiology Biomarkers and Prevention; International

- Journal of Cancer; Emerging Themes in Epidemiology; Annals of Oncology; Mutation Research, Genetic Toxicology and Environmental Mutagenesis; BMC Cancer; PLOS One; Nature Genetics
- 07/2018 European Congress of Epidemiology 2018, member of the Scientific and Organizing Committees
- 02/2016 Common minimum technical standards and protocols for biobanks dedicated to cancer research (IARC technical publication No. 44), reviewer
- 10/2003 – 12/2006 IARC internal seminar, organizer
- 10/2005 Monograph Scientific Secretariat, World Health Organization, IARC Monograph Vol. 92, Air Pollution, Part 1, Some Non-heterocyclic Polycyclic Aromatic Hydrocarbons and Some Related Industrial Exposures
- 10/2004 Monograph Scientific Secretariat, World Health Organization, IARC Monograph Vol. 89, Smokeless Tobacco Products

#### SPECIALTY TRAINING

- 09–11/2008 Applied epidemiology using R, UCB, Berkeley, USA
- 02–06/2007 Molecular and Genetic Epidemiology, UCB Spring semester, Berkeley, USA
- 07/2006 Molecular cancer epidemiology, IARC Summer School on Cancer Epidemiology, Lyon, France
- 07/2005 Temporal trend in cancer incidence and mortality, IARC Summer School on Cancer Epidemiology, Lyon, France
- 12/2003 Workshop on scientific writing, IARC, Lyon, France
- 05/2003 Advances in cancer epidemiology – An international course, IARC, Lyon, France
- 07/2002 Methodology of investigation of communicable diseases: Epidemiological methodology, study design, and measurement of exposure to infectious agents, Université Claude Bernard Lyon 1, Lyon, France

#### MEMBERSHIP

- 03/2012 – present American Association for Cancer Research (AACR)  
Molecular Epidemiology Group (MEG)
- 01/2014 – present International Epidemiological Association (IEA)
- 01/2014 – present Association Des Epidémiologistes de Langue Française (ADELF)

#### PUBLICATIONS

**96 journal articles (cited more than 2,500 times, h-index=30; 12 articles as last authors and 18 articles as first or co-first author):**  
<http://www.ncbi.nlm.nih.gov/sites/myncbi/1Xk1aa9sagkQw/bibliography/42397323/public/?sort=date&direction=ascending>

**List of 10 most significant and relevant publications** (\*These authors contributed equally to the work):

Scelo G\*, Muller DC\*, Riboli E, Johansson M, Cross AJ, Vineis P, Tsilidis KK, Brennan P, Boeing H, Peeters PHM, Vermeulen RCH, Overvad K, Bueno-de-Mesquita HB, Severi G, Perduca V, Kvaskoff M, Trichopoulou A, La Vecchia C, Karakatsani A, Palli D, Sieri S, Panico S, Weiderpass E, Sandanger TM, Nøst TH, Agudo A, Quirós JR, Rodríguez-Barranco M, Chirlaque MD, Key TJ, Khanna P, Bonventre JV, Sabbisetti VS, Bhatt RS. KIM-1 as a blood-based marker for early detection of kidney cancer: A Prospective Nested Case-Control Study. *Clin Cancer Res* 2018;24(22):5594-601

Scelo G and Larose TL. Epidemiology and risk factors for kidney cancer. *J Clin Oncol* 2018;36(36):3574-82

Scelo G\*, Purdue MP\*, Brown KM\*, Johansson M\*, Wang Z, Eckel-Passow JE\*, Ye Y\*, Hofmann JN, Choi J, Foll M, Gaborieau V, Machiela MJ, Colli LM, Li P, Sampson JN, Abedi-Ardekani B, Besse C, Blanche H, Boland A, Burdette L, Chabrier A, Durand G, Le Calvez-Kelm F, Prokhortchouk E, Robinot N, Skryabin KG, Wozniak MB, Yeager M, Basta-Jovanovic G, Dzamic Z, Foretova L, Holcatova I, Janout V, Mates D, Mukeriya A, Rascu S, Zaridze D, Bencko V, Cybulski C, Fabianova E, Jinga V, Lissowska J, Lubinski J, Navratilova M, Rudnai P, Szeszenia-Dabrowska N, Benhamou S, Cancel-Tassin G, Cussenot O, Baglietto L, Boeing H, Khaw KT, Weiderpass E, Ljungberg B, Sitaram RT, Bruinsma F, Jordan SJ, Severi G, Winship I, Hveem K, Vatten LJ, Fletcher T, Koppova K, Larsson SC, Wolk A, Banks RE, Selby PJ, Easton DF, Pharoah P, Andreotti G, Freeman LEB, Koutros S, Albanes D, Mannisto S, Weinstein S,

Clark PE, Edwards TL, Lipworth L, Gapstur SM, Stevens VL, Carol H, Freedman ML, Pomerantz MM, Cho E, Kraft P, Preston MA, Wilson KM, Michael Gaziano J, Sesso HD, Black A, Freedman ND, Huang WY, Anema JG, Kahnoski RJ, Lane BR, Noyes SL, Petillo D, The BT, Peters U, White E, Anderson GL, Johnson L, Luo J, Buring J, Lee IM, Chow WH, Moore LE, Wood C, Eisen T, Henrion M, Larkin J, Barman P, Leibovich BC, Choueiri TK, Lathrop GM, Rothman N, Deleuze JF, McKay JD, Parker AS, Wu X, Houlston RS, Brennan P, Chanock SJ. Genome-wide association study identifies multiple risk loci for renal cell carcinoma. Nat Commun 2017;8:15724

Le Calvez-Kelm F, Foll M, Wozniak MB, Delhomme TM, Durand G, Chopard P, Pertesi M, Fabianova E, Adamcakova Z, Holcatova I, Foretova L, Janout V, Vallee MP, Rinaldi S, Brennan P, McKay JD, Byrnes GB, Scelo G. KRAS mutations in blood circulating cell-free DNA: a pancreatic cancer case-control. Oncotarget 2016;7(48):78827-40

Turesky RJ, Yun BH, Brennan P, Mates D, Jinga V, Harnden P, Banks RE, Blanche H, Bihoreau MT, Chopard P, Letourneau L, Lathrop GM, Scelo G. Aristolochic acid exposure in Romania and implications for renal cell carcinoma. Br J Cancer 2016;114(1):76-80

Li P, Znaor A, Holcatova I, Fabianova E, Mates D, Wozniak MB, Ferlay J, Scelo G. Regional geographic variations in kidney cancer incidence rates in European countries. Eur Urol 2015;67(6):1134-41

Scelo G\*, Riazalhosseini Y\*, Greger L\*, Letourneau L\*, Gonzalez-Porta M\*, Wozniak MB, Bourgey M, Harnden P, Egevad L, Jackson SM, Karimzadeh M, Arseneault M, Lepage P, How-Kit A, Daunay A, Reneault V, Blanche H, Tubacher E, Sehmoun J, Viksna J, Celms E, Opmanis M, Zarins A, Vasudev NS, Seywright M, Abedi-Ardekani B, Carreira C, Selby PJ, Cartledge JJ, Byrnes G, Zavadil J, Su J, Holcatova I, Brisuda A, Zaridze D, Moukeria A, Foretova L, Navratilova M, Mates D, Jinga V, Artemov A, Nedoluzhko A, Mazur A, Rastorguev S, Boulygina E, Heath S, Gut M, Bihoreau MT, Lechner D, Foglio M, Gut IG, Skryabin K, Prokhortchouk E, Cambon-Thomsen A, Rung J, Bourqu G, Brennan P, Tost J, Banks RE, Brazma A, Lathrop GM. Variation in genomic landscape of clear cell renal cell carcinoma across Europe. Nat Commun 2014;5:5135

Wozniak MB, Le Calvez-Kelm F, Abedi-Ardekani B, Byrnes G, Durand G, Carreira C, Michelon J, Janout V, Holcatova I, Foretova L, Brisuda A, Lesueur F, McKay J, Brennan P, Scelo G. Integrative genome-wide gene expression profiling of clear cell renal cell carcinoma in Czech Republic and in the United States. PLoS One 2013;8(3):e57886

Scelo G, Metayer C, Zhang L, Wiemels JL, Aldrich MC, Selvin S, Month S, Smith MT, Buffler PA. Household exposure to paint and petroleum solvents, chromosomal translocations and the risk of childhood leukemia. Environ Health Perspect 2009;117(1):133-9

Maule MM, Scelo G, Merletti F, Brennan P, Hemminki K, Tracey E, Sankila R, Weiderpass E, Olsen JH, McBride ML, Brewster DH, Pompe-Kirn V, Kliwer EV, Chia KS, Tonita JM, Martos C, Jonasson JG, Pastore G, Boffetta P. Risk of malignant neoplasms after childhood leukemia and lymphoma: an international study. J Natl Cancer Inst 2007;99(10): 790-800

#### **Two book chapters:**

Scelo G and Parker AS (in press) 'Kidney cancer: multiple risk factors but limited preventive strategies', in Stewart BW and Wild CP (eds) World Cancer Report 2019. International Agency for Research on Cancer.

Chow W-H, Scelo G, Tarone RE (2017) 'Renal Cancer', in Thun M, Linet MS, Cerhan JR, Haiman CA, Schottenfeld D (eds) Schottenfeld and Fraumeni Cancer Epidemiology and Prevention, Fourth edition. Oxford University Press.

#### **INVITED TALKS**

03/2019 "Mutographs of cancer: Lessons learned and results", Radcliffe Exploratory Seminar, Linking Environmental Cancer Risk Factors and Tumor Genomic Profiles, Cambridge, MA, USA

01/2019 "Kidney cancer epidemiology from a genomic perspective", Institut Curie, Paris,

- France
- 01/2019 "The Mutographs project", CRUK Grand Challenge Summit, Windsor, UK
  - 11/2018 "Mutographs of cancer – Using tumour genomics to understand the causes of cancer", ESCCAPE Joint Meeting, Eldoret, Kenya
  - 04/2018 "Using genomics to understand the causes of cancer", Diabetes and Cancer Research Consortium 9th workshop, Lyon, France
  - 03/2018 "Mutographs of cancer – Using tumour genomics to understand the causes of cancer", XX Congreso Colombiano de Cancer, Barranquilla, Colombia
  - 11/2017 "An overview of IARC research activities on pancreatic cancer", Korean Society of Gastro-Intestinal Cancer - IARC meeting, Lyon, France
  - 08/2017 "Using genomics to understand the causes of cancer", International Cancer Research and Cancer Control Seminars, National Cancer Centre, Tokyo, Japan
  - 09/2016 "Exploring the Obesity Paradox in Kidney Cancer", Dana-Farber/Harvard Cancer Center Kidney Cancer Program seminar
  - 09/2016 "Epidemiology of kidney cancer through population-based studies", Masonic Cancer Center, University of Minnesota, Minneapolis, USA
  - 11/2015 "Epidémiologie du cancer du rein", Mobilisation Nationale Cancer du Rein, 1ère Journée de Mobilisation, Paris, France
  - 04/2015 "Genomic signature for environmental exposures – The CAGEKID study", IARC/NCI Tumor Seminars: 'Difficult questions in renal cancer research', Lyon, France
  - 03/2015 "Current Research in Kidney Cancer Risk and Prognosis", UC Berkeley School of Public Health seminar, Berkeley, USA
  - 04/2014 "Epidémiologie des cancers du rein et carcinogénèse rénale", University Hospitals Paris-Est/Tenon, Paris, France
  - 04/2013 "Genome-wide association studies of renal cell carcinoma: the KIDRISK study". Kick-off meeting of the International Consortium for the Investigation of Renal Malignancies, Rockville, USA
  - 07/2008 "Risk factors of childhood leukemia: selected results from the Northern California Childhood Leukemia Study (NCCLS)". S. Giovanni Hospital and University of Turin, Turin, Italy
  - 06/2005 "Risk factors of ocular melanoma: an international second primary cancer study". Melanoma Group of the European Organization for Research and Treatment of Cancer (EORTC) meeting, Warsaw, Poland
  - 04/2005 "Risk factors of ocular melanoma: an international second primary cancer study." IARC Internal Seminar series, Lyon, France