1. ACADEMIC BACKGROUND

- PharmD (Diplôme d'Etat de Pharmacien), University Paris XI, 1979.
- Diplomas and Board Certifications (CES) Clinical Chemistry, Clinical Bacteriology and Virology, (University Paris XI, 1982), Immunology, (University Paris XI, 1983), Parasitology and Mycology, (University Paris XI, 1985). Haematology, University Paris VI, 1987).
- B. Sc. (with Honors) Genetics, University Paris VII, 1989.
- PhD. (with Honors) Genetics, University Paris VII, 1993.
- Habilitation à Diriger la Recherche, Université Paris V, 1997.
- **European Register** for Specialists in Clinical Chemistry and Laboratory Medicine (EC4), 2000

2. UNIVERSITY HOSPITAL POSITIONS

1980-1985 - **Residency** in the Paris University Hospitals
1985-1989 - **Assistant** in the Clinical Chemistry and Molecular Genetics diagnostic laboratory
University Hospital Ambroise Paré, Boulogne
1989-2001 - **Praticien Hospitalier**, in the Clinical Chemistry and Molecular Genetics diagnostic laboratory, University Hospital Ambroise Paré, Boulogne
1995-2004 - **Initiator and coordinator** of The National Marfan Clinic, University Hospital Ambroise Paré, Boulogne
2001-2013 - **Head** of «Clinical Chemistry and Molecular Genetics », diagnostic laboratory, University Hospital Ambroise Paré, Boulogne.
2007-2011 - **Chairman** of « Biologie, Pathologie, Produits de Santé, Information », University Hospital Ambroise Paré, Boulogne.
2013-present - **Head** of « Department of Genetics », University Hospital Bichat.
2015-present - **Director of Research** for the University Hospitals of Paris-Nord (Bichat-Beaujon-Louis Mourier-Bretonneau)

3. UNIVERSITY TEACHING and REASEARCH POSITIONS

1985-1989 - **Lecturer** in Biochemistry (AHU) at Paris-Ouest Medical School (University Paris 5).
1993-1998 - **Assistant Professor** (MCU-PH), Paris-Ouest Medical School (University Paris 5).
1998-2013 - **Professor** of Genetics, Paris-Ile-de-France-Ouest Medical School (University Versailles-Saint-Quentin-en-Yvelines).
2013-present - Professor of Genetics, Bichat Medical School, University Paris Diderot

1982-1984 - Under graduate studies in the Laboratory of Dr. P. Sansonetti, Institut Pasteur (INSERM U199), Paris

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Téléphone : centrale 32 (0)2 504.92.11 ligne directe 32 (0)2 504.9(...) Téléfax : 32 (0)2 504.92.92
e-mail : secr.gen@frs-fnrs.be (avec rappel des références SVP)

1988-1993 - Graduate studies in the Laboratory of Pr. C. Junien (INSERM U73).

1993-present - **Group leader** in the field of genetic factors associated with cardiovascular diseases (Marfan syndrome and monogenic hypercholesterolemia) at INSERM (presently: UMR1148 – Bichat University Hospital.

4. COMMITTEES and BOARDS

Scientific

1995-1999 - INSERM Scientific Committee (CSS1, Genetics and Development).

1999-2003 : - President, Fundamental and Clinical Research Committee, Ambroise Paré U-Hospital

1993-2013 - Coordinator of the French Research on Hypercholesterolemia.

2001-2013 - Scientific Council of Paris-Ile-de-France-Ouest Medical School (University Versailles-Saint-Quentin-en-Yvelines).

2003-2008 - INSERM Scientific Committee (CT2, Medical Functional Genomics and Genetics)

2007-2010 - President, Scientific Council of Gis-Maladies Rares

- SAB for the Greater Paris Region Council on Cardiovascular-Obesity –Diabetes (CODDIM)

2011-2018 - SAB of French National Programme on Rare Disease Cohorts (RaDiCo)

2012-2016 - Président, SAB of the National Foundation for Rare Diseases

Administrative boards

2000-2009 - Governing Board, Paris-Ile-de-France-Ouest Medical School

2012-present - Medical Board of the Paris University Hospitals (Assistance Publique-Hôpitaux de Paris)

2015-present - Governing Board of the Paris University Hospitals (Assistance Publique-Hôpitaux de Paris)

2017-present - Governing Board, Paris Diderot Medical School

5. PEER REVIEW COMMITTEES and TASK FORCES

2008-present National Basic Research Evaluation Agencies (AERES/HCERES)

2009-2010 Fonds de recherche du Québec-Santé (Canada)

2009-2012 Inserm 4 year contracts for Hospital Translational Research (CHRT)

2004-2012 National and Regional Hospital Research Projects (PHRC)

2012-2015 : - ESC (European Society of Cardiology) Task force for "Guidelines on Aortic Diseases"

- EAS (European Atherosclerosis Society) Consensus Panel on "Familial Dyslipidemias -Evidence-based guidance for diagnosis and clinical management ».

2014-present National Biomedecine Agency (Agence de biomédecine)

2017-present Fondation de France, Prix Jean Vlade

2014-present Fondation Line Pomaret-Delalande (FRM)

2014-present Aortopathy Expert Panel of the Clinical Genome (ClinGen) Resource (NHGRI and National Center for Biotechnology Information ClinVar database

5. SCIENTIFIC MEETINGS

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e-mail : secr.gen@frs-fnrs.be (avec rappel des références SVP)

Scientific program committee

2007-2015 - Annual meeting of the French Atherosclerosis Society (NSFA)
2012 - 1st International Congress Meeting on PCSK9 (Nantes)
- 8th International Research Symposium on Marfan Syndrome and Related Diseases (Virginie, USA).
2014 - 9th International Research Symposium on Marfan Syndrome and Related Diseases
(Paris, 25-27 septembre).
2014-present - yearly Hyperlipidémie Académie, (AMGEN) France

Organizing committee

2014 : -9th International Research Symposium on Marfan Syndrome and Related Diseases
(Paris, 25-27 septembre), 250 participants.

6. SCIENTIFIC SOCIETIES and PATIENT SUPPORT GROUPS

- Collèges National et Parisien de Génétique Médicale
- Association Nationale des Praticiens de Génétique Moléculaire
- NSFA (Nouvelle Société Française d'Athérosclérose), membre du Conseil d'Administration
- Société Française De Cardiologie et GRRC
- European Society of Human Genetics
- European Atherosclerosis Society
- European Society of Cardiology
- American Society of Human Genetics
- American Heart Association
- Marfans (French Marfan Foundation, previously AFSMAA and AFSM) since 1992
- National Marfan Foundation (USA)
- FH (Familial Hypercholesterolemia) FOundation (USA)
- 101 Genomes Foundation (F101G, Belgium)

7. AWARDS and DISTINCTIONS

Since 2006, yearly "Doctoral Supervision Award for Excellence" from University
2012: Chevalier de la Légion d'Honneur
2014: National Heart, Lung and Blood Institute and the National Institute of Arthritis and Musculoskeletal and Skin Diseases, GENTAC Aortic Disease Summit Award « In recognition of recent outstanding contributions elucidating genetic aortic diseases »,
2017: William Harvey Award Lecture on Basic Science, European Society of Cardiology
2018: Grand Prix de la Fondation Lefoulon-Delalande (Institut de France)

8. PATENTS

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e-mail : secr.gen@frs-fnrs.be (avec rappel des références SVP)

Rue d'Egmont 5
B - 1000 Bruxelles

2003: Association between PCSK9 and hypercholesterolemia- European patent (n° 03291025.9-1521 puis 04729171.1-1521-IB2004001686 ; "Mutations in the PCSK9 gene associated to hypercholesterolemia »), American (demande de US provisional patent en 2004).
Patent Number: 04729171.1-1521-IB2004001686

2004 : Association between TGFBR2 and Marfan syndrome – Japanese patent (N° 2004-158099, du 27/05/2004). 2007 : Application Patent 05745933.1-1-1222-JP2005010213
Applicant/Proprietor: Nagasaki University, et al.
Title: "Probe for diagnosis of Marfan's syndrome and method of screening with the probe"

2012 : Association between TGFB2 and aortic aneurysms - INSERM-Transfert (EP/12 305 549.3 may 16, 2012) : “ Methods for the diagnosis and the treatment of familial thoracici aortic aneurysms caused by TGFB2 loss of function mutations”.

FONDS DE LA RECHERCHE SCIENTIFIQUE - FNRS

Rue d'Egmont 5
B - 1000 Bruxelles

Catherine Boileau

Five most important papers

1. G. Collod, M-C. Babron, G. Jondeau, M. Coulon, J. Weissenbach, O. Dubourg, J-P. Bourdarias, C. Bonaïti-Pellié, C. Junien, **C. Boileau.**
   A second locus for Marfan syndrome maps to chromosome 3p24.2-p25.
   Nature Genet., 1994, 8:264-268.

2. **C. Boileau**, G. Jondeau, G. Collod, O. Dubourg, J-P. Bourdarias, C. Bonaïti-Pellié, C. Junien.
   The question of genetic heterogeneity in Marfan syndrome.
   Nature Genet., 1995, 9:230-231.

3. M. AbiFadel, M. Varret, JP. Rabès, D. Allard, K. Ouguerram, (20 co-authors), **C. Boileau**
   Mutations in *PCSK9* cause autosomal dominant hypercholesterolemia.
   Nature Genet., 2003, 34:154-156.

4. T. Mizuguchi and G. Collod-Béroud (co-first authors), T. Akiyama (18 co-authors), **C. Boileau** and N. Matsumoto **(co-last authors)**
   Heterozygous *TGFBR2* mutations in Marfan syndrome.
   Nature Genet., 2004, 36 :855-861.

5. **C. Boileau, D;** Guo, N. Hanna, SE. Regalado, D. Detaint, (20 co-authors), G. Jondeau, D. Milewicz.
   TGFB2 mutations cause familial thoracic aortic aneurysms and dissections associated with mild systemic features of Marfan syndrome.
   Nature Genet., 2012, Jul 8;44(8):916-921.

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