

P^r Benoit BUSSER

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Researcher ID : N-1841-2013

PERSONAL DETAILS

Date and place of Birth: 1981, Strasbourg (France)
Nationality: French
Languages: French (mother tongue), English (fluent)

PROFESSIONAL POSITIONS

since 2023: *Professeur des Universités - Praticien Hospitalier (PU-PH) ; 2nd Class*

Institut Universitaire de France (IUF), Junior Member

Full Professor (Biochemistry and Cancer Sciences), School of Pharmacy, Grenoble-Alpes Univ.

Senior Medical Biochemist - Department of Laboratory Medicine , Grenoble-Alpes University Hospital

Scientist - Institute for Advanced Biosciences, UGA / Inserm U1209 / CNRS UMR 5309 research center

DIPLOMA

- 2017** **HDR (Research Supervision Diploma)**, Claude Bernard University, Lyon, France
- 2006- 2009** **PhD** in Cell Biology, University Joseph Fourier, Grenoble, France
"Identification and characterization of the role of Amphiregulin in non-small cell lung cancer resistance to gefitinib"
- 2008** **PharmD** (professional doctor degree in pharmacy), specialty in *Cancer*
Univ. Grenoble, France.
- 2005- 2006** **Master 2 Degree (Master of Science - MS)**, specialty in *Cell. and Integrative Biology*
Univ. Grenoble, France.

EDUCATION - ACADEMIC BACKGROUND

Postgraduate:

- 2023- present** **Full Professor**, Univ. Grenoble-Alpes and Grenoble University Hospital, France
- 2016- 2017** **Research Mobility**, Team SpectroBio (dir. P. Dugourd), Institut Lumière Matière, Lyon
- 2012- today** **Associate Professor** (Tenure), Univ. Grenoble & Grenoble-Alpes Univ. Hospital, France
- 2009- 2012** **Assistant Professor** (Tenure), Univ. Grenoble & Grenoble-Alpes Univ. Hospital, France

Internship & Residency:

- 2004-2009** **Grenoble University Hospital, Rhône-Alpes, France**
Pharmacy Resident, Clinical Biochemistry Laboratory.
Activities: Tumor markers and sequencing, Serum & Urin protein electrophoreses

Undergraduate Pharmacy studies:

1999-2004 Pharmacy studies (M.Sc), Univ. Strasbourg, France

UNIVERSITY APPOINTMENT

Full Professor of Biochemistry and Cancer Sciences, 2nd Class

National University Council (CNU): Pharmacy - section 82, specialty : Biochemistry

Grenoble Alpes University (UGA) - Faculty of Pharmacy

Faculty member in the Teaching Department: Basic and Clinical Biological Sciences

Teaching duty : > 200 h/year

Teaching responsibilities :

- Referent teacher for the “Professional Bachelor of Science in Biotechnologies” (BSc) university degree
(Responsable pédagogique de la Licence 3 Professionnelle Bio-industries - Biotechnologies)

- Referent teacher for several university courses

Teaching Topics: cell and cancer biology, general and clinical biochemistry, biotechnologies,...

Audiences: Pharmacy students, Master students, Hospital medical residents, Paramedical students...

HOSPITAL APPOINTMENT

Senior Clinical Biochemist, Department of Laboratory Medicine; Grenoble Alpes University Hospital

Since 2022 Head, Point of care testing

Since 2020 Head, Point of care testing, Biochemistry and blood gases unit

Since 2017 Senior Clinical Biochemist, medical molecular genetics laboratory, oncology laboratory

2013 - 2016 Head, Clinical Cancer and Biotherapies laboratory

2009 - 2012 Junior Clinical Biochemist, serum and urine protein electrophoresis laboratory

Keywords : General clinical biochemistry, circulating tumor markers, circulating tumor DNA (ctDNA) immunoassays, solid tumors, DNA sequencing and molecular biology (next generation sequencing / NGS, pyrosequencing, droplet digital PCR / ddPCR), management, quality, point of care testing

GENERAL RESPONSIBILITIES (selection)

Since 2018 Comité de Direction (Inst. for Advanced Biosciences) (steering committee - elected)

2016 - 2020 Commission Médicale d’Etablissement du CHU Grenoble Alpes (elected member)

Since 2015 Co-founder and president of the “Association Biologie et Cancer”

2006 - 2008 Conseil d’UFR de Pharmacie, Univ. Grenoble (elected member)

AWARDS / FELLOWSHIPS

2021 Junior member of the Institut Universitaire de France (IUF)
-2026



2019 PEDR [prime d’encadrement doctoral et de recherche] – National award of scientific excellence
-2026 Issuer: Grenoble Alpes University (UGA)

2019 Poster Award – European Molecular Imaging Meeting (EMIM)

-2018 Issuer: Grenoble Alpes University (UGA)

2015 Young Investigator Award – European Molecular Imaging Meeting (EMIM) [Rank: 1st/125]
Issuer: European Society of Molecular imaging (ESMI), EMIM, Tuebingen, GER

2015 Award for the best scientific presentation - Journées Poussières Minérales et Santé (Lyon)

2015 PEDR [prime d’encadrement doctoral et de recherche]–Research & Doctoral Supervision award

Short CV Benoit Busser - update Sept 2023

- 2011 Award for the best scientific presentation - "Cancer" Category**
Issuer: French Pneumology Society (SPLF) - Respiratory Research Meeting (7th J2R), Toulouse
- 2009 "Diagnostic Innovations" Prize**
Issuer: French Clinical Chemistry Society - (SFBC), International Biology Meeting (JIB), Paris
- 2007 "Jacques Rocipon" Prize - Best Scientific project**
Issuer: AAIPHG - Association des Anciens Internes en Pharmacie de hôpitaux de Grenoble
- 2007 "Basic research" Award - French Cancer Society / Eurocancer**
Issuer: French Cancer Society (SFC - société Française du Cancer)
- 2006 "Alexandre Joël" Prize - Best Oral Talk, "Master Student" Category**
Issuer: French Association for Cancer Research (ARC), Journées Jeunes Chercheurs, Paris.
- 2005 "Young Investigator" Fellowship**
Issuer: French Association for Cancer Research (ARC), category Master of Science (Master 2)
- 2004 "Hospital pharmacy" Fellowship** , Hospital Privado de Córdoba, Argentina (3 months)

RESEARCH

Scientist in the team "Cancer targets and Experimental therapeutics" directed by JL Coll.
 Institute for Advanced Biosciences, INSERM U1209 CNRS UMR5309 UGA, Grenoble, FR ([IAB website](#))

Keywords and Topics of interest

Tissue Elemental Imaging, Cancer cell signalling, Resistance to treatments, Nanoparticles, Metals

Publications

Total: **44 peer-reviewed publications**, 1st author (n=9), (co)last (n=8), corresponding author (n=11).

- 29 Original Articles [33 (**75%**) ranked (1°, 2°, 3°, Before-Last, or Last author)]
- 10 General Reviews
- 4 Editorials/letters/clinical cases
- 6 Books or Book Chapters
- H-index : 25 (*google scholar*)
- 21 papers **with >30 citations**
- Total number of citations : >2000
- **24** Oral presentations in Conferences (after abstract selection)
- **91** Written communications in Conferences (posters)

Clinical Trials

2019 MEDICO-LIBS (*ClinicalTrials.gov Identifier: NCT03901196*)
Coordinator, and PI of this French multicenter study (retrospective & prospective)

Research Contracts, Grants and Funding

Category	Role	Total amount
2 National Research Program (ANR- PRC-17, ANR-MRSEI-19)	Principal applicant (Coordinator)	480 K€
3 Local/regional Grants	Principal applicant	21 K€
5 National Research Programs	Co-applicant	974 K€
1 Local Grant	Co-applicant	20 K€

Talks - Conferences

16 Keynote / Lecture invitations in Conferences or Meetings, 24 Oral presentations in Conferences or Meetings (after abstract selection), and 26 Invited lectures from Universities/Labs/Companies

Industrial Valorization

2023 Patent : “*Calix[4]arenes with high anticancer activity*”

B Busser, A. Deniaud, L. Sancey, P. Lelièvre, I. Jabin, H. Valkenier, N. Renier

Filed January 2023

Application EP23305100.2

2019 Patent : “*Utilization of aza-BODIPYs for imaging purposes*”.

L. Sancey, C. Goze, E. Bodio, B. Busser, J. Pliquett, A. Godard, G. Kalot, V. Josserand, X.

Le Guével, JL. Coll, F. Denat. **Filed August 2019**

Université Grenoble Alpes, CNRS, INSERM, Univ. de Bourgogne,

PCT/EP2020/071865 _ WO2021023731

2017 Co-founding member of the start-up “**Ablatom SAS**”

Occasional consulting activities for molecular biology and imaging industries

Editorial activities

Since 2018 Editorial board member Biomedical Spectroscopy & Imaging, iOS Press

External Expert for funding agencies (Grant Reviewer)

Fondation du Souffle (2017,2018), Clinical Investigation Centre (CHU St Etienne), European Commission (Registered for H2020 programs)

External PhD thesis examiner

Scientific Meetings' Animation

2020 Poster Chair & Abstract reviewer, category “Understanding Tumour Biology”, EMIM 2020

2019 SubChair for the category on “Understanding Tumour Biology”, EMIM 2019

2018 “Understanding Tumor Biology” session chair, European Molecular Imaging Meeting

Since 2016 Organizer of the annual “Grenoble Cancer Meeting” (4 editions, [informations here](#))

2015 Abstract reviewer, category “Cancer”, European Molecular Imaging Meeting

2012 Member of the Jury for the Young Researchers Awards, Jeunes Chercheurs ARC

Reviewing

Reviewer for Coordination Chemistry Reviews (x2), JAMA dermatology, Clinical Cancer Research, Oncogene, Scientific Reports, Cancer Biomarkers, Acta Dermato-Venereologica, Experimental and Molecular Pathology, J. Cancer, Biological procedures online, BioMed Research International, Cancer Biology & Medicine, BMC Cancer, Analytical and Bioanalytical Chemistry, J. Biophotonics, Plasma Science and Technology

Mentoring & Research (co-)Supervision

4 PhD , 9 M.Sc, 2 B.Sc, 2 post-doc, 6 Grad. Med/Pharm Thesis

Complementary Training (selection) -

Good Clinical Practice (GCP), Management, Bio-informatics for Next Generation Sequencing, Conflict management, Proteomics, Small animal imaging, Level 1 animal experimentation accreditation (Univ. Grenoble)

Professional associations (active memberships) -

Société Française de Biologie Clinique (**SFBC**), European Society for Molecular Imaging (**ESMI**), Société Française de Nanomédecine - French Society for Nanomedicine (**SFNano**), Société de Biologie Cellulaire Française (**SBCF**) ; de l'Association Biologie et Cancer (ABC), de l'Association des anciens internes en pharmacie des hôpitaux de Grenoble (AAIPHG)

Past-affiliations (past memberships) -

Groupe Francophone de Cytogénomique Oncologique (GFCO),

SPORTING ACHIEVEMENTS (selection) -

Climbing & Mountaineering

Mont-Blanc (traversée royale), Dent du Géant, Aiguille Dibona (Directe Madier), Arête Bionnassay, Arêtes de Rochefort, Dent Blanche, Meije, ...

Ultra Trails

Finisher "Echappée Belledonne 2017", Grand Duc Chartreuse (3x), Grand raid 73

Caving/Spelunking

Canyoning

> 50 canyons in Europe

Paragliding