



## Curriculum Vitae

Personal information **Jean-Luc Bueb**

### Work experience

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- start date: 05, 2025
- present
- position: Professor specialized in health professions
- employer: University of Luxembourg
- Luxembourg
- Main activities: Curriculum development, Bachelor's and Master's programs leadership (Course director)
- start date: 08, 2003
- end date: 04, 2025
- position: Full Professor of Biology
- employer: University of Luxembourg
- Luxembourg
- Main activities: Research on mechanisms of cellular inflammation, Teaching, Curriculum development, Bachelor's and Master's programs program leadership (Course director)
- start date: 07, 1995
- end date: 07, 2003
- position: Project leader
- employer: Public Research Centre for Health
- Luxembourg
- Research activities: mechanisms of cellular inflammation
- start date: 07, 1991
- end date: 06, 1995
- position: Post-doctoral fellow
- employer: Public Research Centre for Health
- Luxembourg
- Research activities: mechanisms of cellular inflammation

### Education and training

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- start date: 2004
- end date: 2004
- Qualification as University Professor
- Ministry of Education and Research
- France
- start date: 2003
- end date: 2003
- French Habilitation for supervising research (HDR, Habilitation à Diriger les Recherches)
- Faculty of Pharmacy, Strasbourg
- France
- start date: 1995
- end date: 1995
- Qualification as University Assistant-Professor
- Ministry of Education and Research
- France
- start date: 1987
- end date: 1991
- MSc- and PhD- in Pharmacology
- Faculty of Pharmacy, Strasbourg
- France
- Pharmacology and Pharmacochimistry
- start date: 1981
- end date: 1987
- Dr in Pharmacy (PharmD)
- Faculty of Pharmacy, Strasbourg
- France
- PharmD, track industry

### Additional information

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#### Publications

List of 10 selected publications:

miRNA-132-5p mediates a negative feedback regulation of IL-8 secretion through S100A8/A9 downregulation in neutrophil-like HL-60 cells. Zhou Y., Nomigni M.T., Gaigneaux A., Tolle F., Wright H.L., Bueb J.-L., Brécard S. Front Immunol. 2024; 14: 1274378.

Role of S100A8/A9 for Cytokine Secretion, Revealed in Neutrophils Derived from ER-Hoxb8 Progenitors. Zhou Y., Hann J., Schenten V., Plançon S., Bueb J.-L., Tolle F., Brécard S. *Int J Mol Sci.* 2021; 22(16): 8845.

Calcium signaling and regulation of neutrophil functions: Still a long way to go. Hann J., Bueb J.-L., Tolle F., Brécard S. *J Leukoc Biol.* 2020; 107(2): 285-297.

miRNAs Regulate Cytokine Secretion Induced by Phosphorylated S100A8/A9 in Neutrophils. Jung N., Schenten V., Bueb J.-L., Tolle F., Brécard S. *Int J Mol Sci.* 2019; 20(22): 5699.

Secretion of the Phosphorylated Form of S100A9 from Neutrophils Is Essential for the Proinflammatory Functions of Extracellular S100A8/A9. Schenten V., Plançon S., Jung N., Hann J., Bueb J.-L., Brécard S., Tschirhart E.J., Tolle F. *Front. Immunol.*, 2018; 9: 447.

Role of calprotectin as a modulator of the IL27-mediated proinflammatory effect on endothelial cells. Dorosz S.A., Ginolhac A., Kahne T., Naumann M., Sauter T., Salsmann A., Bueb J.-L. *Mediators Inflamm.* 2015; 737310.

Integrated metabolic modelling reveals cell-type specific epigenetic control points of the macrophage metabolic network. Pacheco M.P., John E., Kaoma T., Heinaniemi M., Nicot N., Vallar L., Bueb J.-L., Sinkkonen L., Sauter T. *BMC Genomics.* 2015; 16: 809.

Co-cultures of human coronary smooth muscle cells and dimethyl sulfoxide-differentiated HL60 cells upregulate ProMMP9 activity and promote mobility-modulation by reactive oxygen species. Bernard Y., Melchior C., Tschirhart E., Bueb J.-L. *Inflammation.* 2008; 31: 287-298.

Rac-1-mediated O<sub>2</sub><sup>-</sup> secretion requires Ca<sup>2+</sup> influx in neutrophil-like HL-60 cells. Valentin F., Bueb J.-L., Capdeville-Atkinson C., Tschirhart, E.J. *Cell Calcium* 2001; 29: 409-415.

A double-labelling fluorescent assay for concomitant measurements of [Ca<sup>2+</sup>]<sub>i</sub> and O<sub>2</sub><sup>-</sup> production in human macrophages. Bueb J.-L., Gallois, A., Schneider J.-C., Parini J.P., Tschirhart, E. *Biochim. Biophys. Acta* 1995; 1244: 79-84.

In summary:

>40 original peer-reviewed publications, peer-reviewed reviews and book articles

>40 published communications

>30 unpublished communications (congress proceedings only)

## Projects

Public Research Centre for Health (CRP-Santé), Luxembourg  
1995-1997, "Free radicals and inflammation"

Public Research Centre for Health (CRP-Santé), Luxembourg  
1999-2001, "Vascular inflammation – plaque rupture"

National Research Fund, Luxembourg  
2009-2011, "Stress- and nutrition-sensing transcription factors"

National Research Fund, Luxembourg  
2018-2022, Doctoral Training Unit, "Next Generation Immunoscience: Advanced Concepts for Deciphering Acute and Chronic Inflammation (NEXTIMMUNE)"

## Memberships

Main memberships:

2016-... Member of the GTE-SFBBM (Working group on Teaching/Learning of the French Society of Biochemistry and Molecular Biology) and FEBS (Federation of European Biochemical Societies)

2013-... Member of the Institut Grand-Ducal (IGDL), Natural Sciences Section, Luxembourg

2013-... Member of the Académie Lorraine des Sciences (ALS), Nancy (France)

## Other Relevant Information