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### Summary of recent scientific accomplishments

My research aims at identifying the implication of oral microbiota as risk factors of the systemic diseases like diabetes and obesity. We identified the role of *Porphyromonas gingivalis*, oral commensal bacteria, in the development of type 2 diabetes linked to immune disorders. Following these data, we develop clinical trials to identify new bacterial candidate and its metafactors implicated to immune and systemic disorders. My medical practice has a goal to a global healthcare targeting oral microbiota.

### FORMATION

September 2016-present **Associate professor** in the Toulouse Dental Surgery's University, and exclusive practice in Endodontic  
July 2013-August 2016 **Post-Doc** INSERM UMR1048-I2MC  
January 2013-Janvier 2015 Specialization in **Endodontic Dentistry**  
April 2010-present **Professor associated** in Toulouse Hospital and Dentistry University of Toulouse  
September 2010- July 2013 **PhD Student** University Paul Sabatier of Toulouse III France  
September 2009- June 2010 Physiopathology of cardio-metabolic disease **Master**  
September 2003-November 2009 Student in **Doctor of Dental Medicine (DMD)**

### SKILLS/LANGUAGE

- Molecular Biology, Immunology, Chemistry, Pyrosequencing, Animal and cell Biology, Microbiology, Dentistry, Metabolic and cardiac exploration, Bioinformatics
- French, English, Spanish

### Publications Internationales

Number : 30

**Blasco-Baque V** et al. Periodontitis induced by *Porphyromonas gingivalis* drives periodontal microbiota dysbiosis and insulin resistance via an impaired adaptive immune response. Gut. 2017 Feb 2.

**Blasco-Baque V**, et al. Associations between hepatic miRNA expression, liver triacylglycerols and gut microbiota during metabolic adaptation to high-fat diet in mice. Diabetologia. 2017 Apr;60(4):690-700.

**Blasco-Baque V** et al. High-Fat Diet Induces Periodontitis in Mice through Lipopolysaccharides (LPS) Receptor Signaling: Protective Action of Estrogens. PLoS One. 2012;7(11):e48220

**Blasco-Baque V** et al.. Metabolic therapy at the edge between human hosts and gut microbes Ann Pharm Fr. 2013 Jan;71(1):34-41.

Branchereau M, Reichardt F, ... and **Blasco-Baque V**. Periodontal dysbiosis linked to periodontitis is associated with cardiometabolic adaptation to high-fat diet in mice. Am J Physiol Gastrointest Liver Physiol. 2016 Jun 1;310(11):G1091-101

Minty M, Canceil T, Serino M, Burcelin R, Tercé F, **Blasco-Baque V**. Oral microbiota-induced periodontitis: a new risk factor of metabolic diseases. *V.Rev Endocr Metab Disord*. 2019 Dec;20(4):449-459. doi: 10.1007/s11154-019-09526-8.

Minty M, Canceill T, Lê S, Dubois P, Amestoy O, Loubieres P, Christensen JE, Champion C, Azalbert V, Grasset E, Hardy S, Loubes JM, Mallet JP, Tercé F, Vergnes JN, Burcelin R, Serino M, Diemer F, **Blasco-Baque V**. Oral health and microbiota status in professional rugby players: A case-control study. *J Dent*. 2018 Dec;79:53-60.

Thomas Charlotte, Minty Matthieu, Canceill Thibault, Loubieres pascale, Azalbert Vincent, Terce François, Champion Camille, Burcelin Rémy, Barthet Pierre, Laurencin-Dalieux Sara, **Vincent Blasco-Baque** Obesity Drives an Oral Microbiota Signature of Female Patients with Periodontitis: A Pilot Study *Diagnostics* 2021, Volume 11, Issue 5, 745

Hoyles L, ..., Burcelin R, Dumas Molecular phenomics and metagenomics of hepatic steatosis in non-diabetic obese women. *ME.Nat Med*. 2018 Jul;24(7):1070-1080. doi: 10.1038/s41591-018-0061-3. Epub 2018 Jun 25.

Nicolas S, **Blasco-Baque V**, Fournel A, Gilleron J, Klopp P, Waget A, Ceppo F, Marlin A, Padmanabhan R, Iacovoni JS, Tercé F, Cani PD, Tanti JF, Burcelin R, Knauf C, Cormont M, Serino Transfer of dysbiotic gut microbiota has beneficial effects on host liver metabolism. *M.Mol Syst Biol*. 2017 Mar 16;13(3):921. doi: 10.15252/msb.20167356.

#### Reviewing Activity/Membership

**Membership** of Collège National des Enseignants en Sciences Biologiques (CNESBO), Collège National des Enseignants en odontologie Conservatrice (CNEOC), de la Société Francophone du Diabète (SFD), Société Française d'Hypertension Artérielle (SFHTA) et de la Société Française d'Endodontie (SFE)

**Laureate** of University of Paul Sabatier Toulouse III, Société Française d'Endodontie (SFE) Collège National des Enseignants en odontologie Conservatrice (CNEOC) and Collège National des Enseignants en Sciences Biologiques (CNESBO)

**Laureate** Price Paul Calas 2017 for endodontic research

**Funded Projects** laureate of Grant from Société Française d'hypertension Artérielle and Société Francophone du Diabète, Institut Française pour la Recherche en Odontologie and ANR