



## Laura Sturla

Associate professor

✉ laurasturla@unige.it

☎ +39 0103538131

### *Education and training*

1998

**Ph.D. in Molecular and cellular biotechnologies applied to medicine University of Brescia. Thesis title GDP-L-fucose metabolism in prokaryotic and eukaryotic cells.**

1993

**Degree in Biological Science at the University of Genova. Thesis title Immunization with erythrocyte carries of antigens involved in vaccines.**

1988

**Certificate of high school (Scientific Lycaenum) Genova**

### *Academic experience*

2012 - ONGOING

**LS has obtained Italian National Scientific Habilitation as Associate Porfessor in Biochemistry (05-E1) in Molecular Biology (05-E2) and in Applied Biology (05-F1)**

2006 - ONGOING

**Permanent position as Assistan Professor of Biochemistry Department of Experimental Medicine University of Genova.**

2004 - 2006

**Researcher Position (FIRB Project) at the Department of Experimental Medicine University of Genova with a research study on Molecular recognition and cell function.**

1999 - 2000

**Post-doctoral position at the Department of Experimental Medicine University of Genova she studied the molecular basis of genetic syndrome LADII (Leucocytes Adhesion Deficiency Type II)**

## ***Teaching activity***

Since 2018:

Biochemistry, “Physical Education Degree” , University of Genova.

Biochemistry of Muscle “Master Degree in Physical Education”, Università di Genova.

Biochemistry of aging, , “Physical Education Degree” , University of Genova.

Since 2009:

Laboratory for the physician in training, “Degree Course in Medicine and Surgery”, University of Genova

Since 2007:

Chemistry and Biochemistry, “Nursing Degree”, University of Genova.

Chemistry and Biochemistry, “Health Professions Degree”, University of Genova

Biochemistry II and Structural Biology+Laboratory, “Specialization Degree Course in Biotechnologies”, University of Genova

## ***Postgraduate research and teaching activity***

### **Supervision of PhD students, residents and post-doctoral fellows**

2007-2012, LS has been a Tutor in PhD course in Biotechnology and Biochemistry.

Since 2018, she is a tutor in the PhD Course in Experimental Medicine.

## ***Research interests***

LS has a particular interest in molecular mechanisms of signal transduction, specially regarding the biochemistry of hormone abscisic acid (ABA). She has significantly contributed to the identification of human receptor of ABA, the protein LANCL2. ABA is present and active in animals cells, where it induces the activation of innate immune cells and plays a role in the regulation of glycemia. ABA stimulate insulin release from pancreatic beta cells and glucose uptake by adipose and muscle cells. The most recent results obtained by LS group shows that ABA induces browning of murine adipocytes *in vitro* and *in vivo* and ABA enhances glucose uptake by brown adipose tissue *in vivo*. This discovery will lead to the development of new therapeutic strategies to improve glucose tolerance under conditions of insulin resistance, metabolic syndrome and obesity. LS has acquired the most important techniques in biochemistry and molecular biology.