

# Stefano Spertino

## PERSONAL DATA

Date of Birth: 18 March 1984

Office phone number: 0131 360 210

e-mail: [stefano.spertino@uniupo.it](mailto:stefano.spertino@uniupo.it)

## BIO AND EDUCATION

**2007:** Bachelor of Science “Biologia” (Final Mark 110/110 laude) at Università del Piemonte Orientale.

**2009:** Master of Science “Scienze Biologiche Applicate” (Final Mark 110/110 laude, mention, dignity of stampe) at Università del Piemonte Orientale.

**2009:** Faculty to Biologist profession.

**2013:** Ph.D. in Environmental Science (Scienze Ambientali – Acque interne e Agroecosistemi) at Università del Piemonte Orientale.

## UNIVERSITY CAREER

2013-	Postdoctoral fellowship, Università del Piemonte Orientale
2014-	Adjunct Professor, Università del Piemonte Orientale
2009-2013	PhD student, Università del Piemonte Orientale

## UNIVERSITY POSITIONS

2014-	Honorary fellow in BIO/10
-------	---------------------------

## MAIN FIELDS OF INTEREST

1. Proteomics
2. Applied enzymology
3. Renewable energies, biofuels and green chemistry
4. Lignocellulosic biomass
5. Carbohydrate Active enZymes (CAZymes)
6. Milk proteins

## CURRENT ISSUES OF RESEARCH

### 1. Biofuels and lignocellulosic biomass degradation

He studies the processes of enzymatic hydrolysis and degradation of different lignocellulosic biomasses/agro-industrial wastes for the production of 2<sup>nd</sup> generation biofuels and high value-added molecules. He employs biochemical, proteomic and bioinformatic techniques for the analysis of secreted proteins (secretome) from bacterial and fungal microorganisms.

### 2. Milk proteomics

Characterization of human, bovine and caprine milk proteins by proteomic tools.

## TOP FIVE PAPERS

1. "Protein fingerprinting in the choice of cellulase cocktails for the conversion of lignocellulosic biomass" – Cattaneo C.<sup>†</sup>, **SPERTINO S.**<sup>†\*</sup>, Boatti L., Icardi S., Cavaletto M. – ANALYTICAL METHODS, 2014; Vol: 6, Issue: 12, Pages: 4046-4055. <sup>†</sup>These authors contributed equally to the work. \*Corresponding author.
2. "Proteome profile and biological activity of caprine, bovine and human milk fat globules" - **SPERTINO S.**, Cipriani V., De Angelis C., Giuffrida M. G., Marsano F., Cavaletto M. - MOLECULAR BIOSYSTEMS, 2012; Vol: 8, Issue: 4, Pages: 967-974.
3. "Natural Killer (NK)/melanoma cell interaction induces NK-mediated release of chemotactic High Mobility Group Box-1 (HMGB1) capable of amplifying NK cell recruitment" - Parodi M., Pedrazzi M., Cantoni C., Averna M., Patrone M., Cavaletto M., **SPERTINO S.**, Pende D., Balsamo M., Pietra G., Sivori S., Carlomagno S., Mingari M. C., Moretta L., Sparatore B., Vitale M. – ONCOIMMUNOLOGY, 2015; Vol: 4, Issue: 12, e1052353.
4. "Effects of Holder pasteurization on the protein profile of human milk" – Peila C., Coscia A., Bertino E., Cavaletto M., **SPERTINO S.**, Icardi S., Tortone C., Visser G.H.A., Gazzolo D. – ITALIAN JOURNAL OF PEDIATRICS, 2016; Vol: 42, Issue: 1.