

PERSONAL INFORMATION

Annalisa Santucci



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🌐 <https://www.dbcf.unisi.it/it/dipartimento/personale/docenti/annalisa-santucci>

💬 Skype: [annalisasantucci](#)

Sex F | Nationality Italian

WORK EXPERIENCES

November 2015- Ongoing

Head of Department

Department of Biotechnology, Chemistry and Pharmacy "Dipartimento di Eccellenza 2018-2022", University of Siena

- Coordination and management of teaching and research activities
- Business or sector** Education and Research

2018- Ongoing

Member of the Directive Committee of SIB (Italian Society of Biochemistry & Molecular Biology)

November 2014-2020

President of the Tuscany Region PhD School in Biochemistry and Molecular Biology-BiBiM 2.0. (Dottorato Executive Pegaso)

Universities of Siena, Pisa and Firenze, CNR Pisa

- Coordination of Research and teaching

Business or sector Education and Research

November 2004-Ongoing

Full Professor of Biochemistry

Department of Biotechnology, Chemistry and Pharmacy "Dipartimento di Eccellenza 2018-2022", University of Siena

- Research and teaching

Business or sector Education and Research

2017-ongoing

Member of Fondazione CRUI - Osservatorio Università-Imprese working groups

Group Life Sciences – a) Sperimentazione Clinica Nuova direttiva EU; b) Formazione in sperimentazione e ricerca clinica

Group Industrial PhD Schools

Business or sector Education and Research

2017-ongoing

Delegate of Siena University at National Competence Center Industry 4.0 ARTES 4.0

Regione Toscana

Business or sector Education and Research

2017-ongoing

Delegate of Siena University at Cluster CTN BIG – Blue Italian Growth

Cluster CTN BIG – Blue Italian Growth

- **Business or sector** Education and Research

Member of the Interministerial Working Group for BLUEMED Initiative

- 2017-ongoing Co-author of BLUEMED 2018 White Paper
 - [Business or sector](#) Education and Research

- 2008-ongoing **Member of the International Advisory Board on Alkaptonuria**
FindAKUre network
 - Research
 - [Business or sector](#) Research

- 2008-ongoing **Founder and President of the Scientific Committee of aimAKU - the Italian Association of Alkaptonuria Patients and Families**
Research
 - [Business or sector](#) Research

- 2004-2012 **Director and Founder**
Interdepartmental Centre for the study of osteoarticular pathologies – University of Siena
 - Coordination
 - [Business or sector](#) Education and Research

- 2004-2006 **Member of Boards of Directors – Consiglio di Amministrazione**
University of Siena
 - Coordination
 - [Business or sector](#) University Governance

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Proficient user	Proficient user	Proficient user	Proficient user
Cambridge English: Proficiency (CPE)					
Replace with name of language certificate. Enter level if known.					

[Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user](#)
[Common European Framework of Reference for Languages](#)

Communication skills The long teaching activity starting in 1993 up to today and the many theses carried out in her lab witness the communication skills of Prof. Santucci who always had very good evaluation from students. She has numerous fruitful collaborations with researchers from many different countries.

Organisational / managerial skills

- **Leader of a group of 15 people**
- **Host in her lab of foreign students and teachers from EU, USA and AUS countries**
- **Organizer of the following meeting and season schools:**
 - 1988 – Scuola Nazionale di Scienza delle Proteine, SIB, Pontignano (SI), 22 Aug-2 Sep
 - 1989 - IV Convegno Nazionale "Proteine '89", SIB, Siena, 14-16 Sep
 - 1989 – COMETT Advanced Course on Protein Structural Aspects of Biotechnology, Edinburgh, UK, Sep
 - 1991 – Corso Teorico Applicativo di Tecniche e Elettroforetiche, Fiorenzuola d'Arda (PC), 21-24 Jan
 - 1996 – XI Convegno Nazionale "Proteine '96", SIB, Siena, 29-31 May

- 1999 - Workshop CEE "The Immunobiotechnology Workshop on Antibody Technology", Siena, 25 Apr
- 2005 – "Analisi Proteomica: dalla metodologia alle applicazioni", serie di seminari, simposi ed attività di orientamento, 4 May -21 Jun 2005, various locations (Firenze, Pisa, Padova, Roma, Napoli, Milano)
- 2005 – Workshop ENEA "*Saccharomyces cerevisiae*: sistema modello per l'analisi delle risposte allo stress. Prospettive di ricerca e innovazione", Rome 16 Dec
- 2008 – Seldi-Tof Users' Meeting Bio-Rad, Siena 23-24 Oct
- 2009 – 3rd International Workshop on AKU, Siena, 27 Oct
- 2009 – Meeting of the International AKU Advisory Board, Siena, 28 Oct
- 2011 - 4th International Workshop on AKU, Cambridge, UK, Jan
- 2011- 5th International Workshop on AKU, Liverpool, UK, 18-19 Nov
- 2012 - 6th International Workshop on AKU, Piestany, Slovakia, 1-2 Nov
- 2012 - Conferenza dei Presidi Regione Toscana – "Centralità della Toscana nella ricerca mondiale su una malattia ultra-rara: l'alcaptonuria", Firenze 3 Oct
- 2015 – Focus sulla prima malattia genetica: l'Alcaptonuria, Siena 1 Oct
- 2016 – La malattia di Lesch-Nyhan: nuove prospettive nella descrizione e nell'approccio diagnostico, terapeutico e assistenziale, Siena 15 Oct
- 2019 - 10th International Workshop on AKU, 28-30 January
- 2020 – FEBS "Science and Society" event on Precision Medicine
- **Referent of the University of Siena for the following International agreements:**
- Queen Mary, University Of London, London, UK. School Of Engineering And Materials Science, Prof. Martin Knight
- Kings' College, London, UK. Department Of Basic And Clinical Neuroscience Institute Of Psychiatry, Prof. Annalisa Pastore
- University of Liverpool, Liverpool, UK. School of Biomedical Sciences, Prof. James A. Gallagher
- Royal University Hospital, Robert Gregory National Centre, Liverpool, UK, Prof. Lakshminarayan Ranganath
- University of Vienna, Vienna, A, Institute of Pharmacology and Toxicology, Dept. of Pharmacology and Toxicology, Prof. Oskar Hoffmann
- Medical University of Vienna, Vienna, A, Division of Immunology, Allergy and Infectious Diseases, Dr. Michelle Epstein
- The Scripps Research Institute, La Jolla, CA (USA), Dept. of Neuropharmacology, Prof. Luigi Pulvirenti (<http://www.scripps.edu/index.html>)
- The University of Auckland, Auckland (NZ), Faculty of Medicine and Health Sciences, School of Medicine, Dept. of Medicine, Prof. Jillian Comish (<https://www.auckland.ac.nz/en/fmhs.html>)
- The University of New South Wales, Sydney, AUS, School of Biotechnology and Biomolecular Sciences, Prof. Marc Wilkins
- Luxembourg Institute of Science and Technology (LIST), Luxembourg (L), Life Cycle Sustainability and Risk Assessment Research Unit, Dr. Tommaso Serchi
- Kilis 7 Aralık Üniversitesi, Kilis, Turkey, Art and Science Faculty, Dept. of Biology, Prof. Nazim Şekeroğlu
- Jagellonian University, Krakow (PL), Medical College, Faculty of Pharmacy, Prof. Tadeusz Librowski
- University of Helsinki, Helsinki (FIN), Faculty of Biological and Environmental Sciences, Faculty of Pharmacy
- Radboud Universiteit Nijmegen, Nijmegen (NL), Radboud University Medical Center, Dept. Laboratory Medicine, Translational Metabolic Laboratory, Prof. Ron Wevers
- Lisboa University, Centro de Química e Bioquímica, DQB Faculdade de Ciências, Prof. Rodrigo de Almeida
- Lisboa University, ITQB NOVA, Dr. Alvaro H.Crevenna
- Universität Würzburg (D)
- Slovak University of Technology in Bratislava (SI), Prof. Martin Rebros

Job-related skills

- **All applied Biochemistry technologies**
- **Post-genomic technologies**
- **Molecular modelling**
- **Physiopathology of diseases and rare diseases** (gastric cancer, pancreatic cancer, osteosarcoma, alcaptonuria, osteoarthritis, Lesch-Nhyan syndrome, chondrocalcinosis, sclerodermia)
- **Proteomics of microorganisms** (*Helicobacter pylori*, *Neisseria meningitidis*, *Saccharomyces cerevisiae*)
- **Precision medicine**

ADDITIONAL INFORMATION

Publications

- **Author of more than 200 papers in international peer-reviewed scientific journals**

Scopus author identifier [7102318704](#)

Orcid author identifier [0000-0001-6976-9086](#)

- **Inventor of 12 National and International patents**
- **Editor of two books**

Five recent publications:

Machine learning application for development of a data-driven predictive model able to investigate quality of life scores in a rare disease.

Spiga O, Cicaloni V, Fiorini C, Trezza A, Visibelli A, Millucci L, Bernardini G, Bernini A, Marzocchi B, Braconi D, Prisci F, **Santucci A.**

Orphanet J Rare Dis. 2020 Feb 12;15(1):46. doi: [10.1186/s13023-020-1305-0](#). PMID: [32050984](#)

Homogentisic acid affects human osteoblastic functionality by oxidative stress and alteration of the Wnt/ β -catenin signaling pathway.

Schiavone ML, Millucci L, Bernardini G, Giustarini D, Rossi R, Marzocchi B, **Santucci A.**

J Cell Physiol. 2020 Jan 28. doi: [10.1002/jcp.29575](#). [Epub ahead of print] PMID: [31989660](#)

Interactive alkaptonuria database: investigating clinical data to improve patient care in a rare disease.

Cicaloni V, Spiga O, Dimitri GM, Maiocchi R, Millucci L, Giustarini D, Bernardini G, Bernini A, Marzocchi B, Braconi D, **Santucci A.**

FASEB J. 2019 Nov;33(11):12696-12703. doi: [10.1096/fj.201901529R](#). Epub 2019 Aug 28. PMID: [31462106](#)

Homogentisic acid induces morphological and mechanical aberration of ochronotic cartilage in alkaptonuria.

Bernardini G, Leone G, Millucci L, Consumi M, Braconi D, Spiga O, Galderisi S, Marzocchi B, Viti C, Giorgetti G, Lupetti P, Magnani A, **Santucci A.**

J Cell Physiol. 2019 May;234(5):6696-6708. doi: [10.1002/jcp.27416](#).

Homogentisate 1,2-dioxygenase (HGD) gene variants, their analysis and genotype-phenotype correlations in the largest cohort of patients with AKU.

Ascher DB, Spiga O, Sekelska M, Pires DEV, Bernini A, Tiezzi M, Kralovicova J, Borovska I, Soltysova A, Olsson B, Galderisi S, Cicaloni V, Ranganath L, **Santucci A**, Zatkova A.

Eur J Hum Genet. 2019 Jun;27(6):888-902. doi: [10.1038/s41431-019-0354-0](#)

Reviewer activity

- **Reviewer for the following international journals:** *Clin. Chem., Proteomics, Journal of Prot. Res., Proteome Science, Electrophoresis, Journal of Agricultural and Food Chemistry, Journal of Chromatography, Expert Reviews of Proteomics, Acta Pharmacologica Sinica, Journal of Dental Research, BBA, BBRC, FEBS Letters, Anti-Cancer Drugs, Expert Opinion on Medical Diagnostics, Proteomics Clinical Applications, African Health Sciences, Journal of Medical Microbiology, Applied Microbiology, BMC Biology, Journal of Proteomics, Journal of Inherited Metabolic Diseases, Microbial Cell Factories, Journal of Pharmacy and Pharmacology, BMC Gastroenterology, Journal of Metabolomics and Systems Biology, Vaccines, African Health Sciences, Amino Acids, Microbiologica, Journal of Proteome Science, PlosOne, and many other etc.*

- **Reviewer of international proposals**