

PERSONAL INFORMATION

Surname: Gorassini
First name: Andrea
Date of birth: 08.09.1972
Place of birth: Udine (Italy)
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EDUCATION

In 1998 he graduated in Food Science at University of Udine with full marks and honours discussing a thesis in organic chemistry.

WORK EXPERIENCE

He has a permanent position from 2004 as Researcher in the scientific sector CHIM/12 Environment and Cultural Heritage Chemistry at the Department of Humanities and Cultural Heritage, University of Udine.

From 2002 to 2003 he has worked as assistant manager production in chemical industry.

From 2000 to 2002 he has worked as a post-doctoral researcher at the Department of History and Preservation of the Cultural Heritage, University of Udine.

From 1999 to 2000 he has worked in quality control laboratory in food industry.

RESEARCH EXPERIENCE

For several years, his research focus has been the deterioration of paper materials with particular reference to kinetic models for cellulose degradation. Others main interests were the FTIR-ATR analysis of paper documents and iron-gall inks. In the recent years, his scientific activities concerned several fields of the organic chemistry and analytical chemistry particularly referring to GC- and HPLC-MS. Specifically, he performed several secondary metabolites analyses in different foods, plant materials and extracts.

More in detail, his research activity has concerned the following topics:

- characterization of new heterocycles by the reaction between alpha-amino acid hydrazides and carbonyl compounds;

- Synthesis, reactivity and characterization of alpha-N-Protected dipeptide acids, ureas and carbamoyl azides of alpha-N-protected amino acids;
- Study of kinetic models for cellulose acid, alkaline and oxidative degradation;
- FTIR-ATR analysis of archival documents, ancient books and iron-gall inks;
- Identification and quantitation by HPLC-ESI/APCI-MSⁿ of phenolic compounds and cholesterol oxidation products in food matrices such as juices, fruit extracts and milk products;
- Development of new analytical protocols for the determination of sterols and phytosterols in various matrices of vegetable and animal origin;
- At present, his scientific interest is focused on the quali-quantitative analysis, by means of LC-MS and GC-MS techniques, of bioactive secondary metabolites present in vegetable extracts and in callus cultures obtained from pulp fruits.

He published more than 50 papers, on national or international scientific journals, many of which in collaboration with other research groups.

He is co-inventor of three patents, supported by the CNR, University of Urbino "Carlo Bo", and University of Udine, in the field of cultural heritage chemistry and in the field of bioactive secondary metabolites

PARTICIPATION TO CONGRESSES

He has participated, as speaker, in the following scientific international and national meetings:

- "N,N-Dialkyl Aminodiazoderivatives as Mass Deacidification Agents" 3rd International Conference on "Science and Technology for the Safeguard of Cultural Heritage in the Mediterranean Basin", C.N.R. and Universidad de Alcalà, Alcalà de Henares-SPAIN (2001).
- "FTIR analysis of historic documents degraded by iron-gall inks". IV Congresso Nazionale dell'Associazione Italiana di Archeometria, AIAR, Pisa, ITALY (2006).
- "Fourier transform infrared spectroscopy (FTIR) analysis of historic paper documents as a preliminary step for chemometrical analysis". 2nd International Meeting on Multivariate Analysis and Chemometry for Cultural Heritage and Environment, Ventotene Island, ITALY (2008).

His bibliometric indicators (Scopus) are: H-Index 15; Citations 776; Documents by author 36.

TEACHING EXPERIENCE

- Assistant professor of Restoration Chemistry from A. Y. 2004/2005 up to A. Y.2007/2008.
- Assistant professor of Chemistry of Audiovisual Storage Media in the A. Y. 2008/2009

- Member of the PhD college on “Bibliographic, Archival, Documentary Sciences and the Preservation and Restoration of Archival and Book Heritage” of the University of Udine from A.Y. 2007/08 up to A.Y. 2009/2010.
- Assistant professor of Materials and techniques of architectural restoration from A. Y. 2009/2010 up to A.Y.2012/2013.
- Member of Joint Committee Teachers-Students from 2014 up to 2017
- Assistant professor of Conservation of Cultural Heritage from A. Y. 2009/2010 up to A.Y.2017/2018.
- Assistant professor of Cultural Heritage Chemistry since A.Y. 2018/2019
- Assistant professor of Mass Spectrometry since A.Y. 2022/2023

Autorizzo il trattamento dei miei dati personali ai sensi dell’art. 13 D. Lgs. 30 giugno 2003 n°196 – “Codice in materia di protezione dei dati personali” e dell’art. 13 GDPR 679/16 – “Regolamento europeo sulla protezione dei dati personali”

Andrea Gorassini

Udine, ottobre 2023