Andrea C. Rinaldi

Curriculum Vitae et Studiorum

Date and place of birth	Civitavecchia (Rome), September 16, 1967
Nationality	Italian
Marital status	married, two daughters
Institutional Address	Department of Biomedical Sciences University of Cagliari I-09042 Monserrato (CA) - Italy
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Home Address	Via Sassari, 50 I-09067 Elmas (Cagliari) - Italy

Education

- 1991 (Dec.), B.S. degree in Natural Sciences, received, with full marks, from the University of Siena - Italy. The relevant Thesis, prepared under the tutorship of Prof. M. Cresti and Prof. A. Tiezzi, focused on the study of "High molecular weight polypeptides related to dynein in *Nicotiana tabacum* pollen tubes"

- 1996 (Dec.), Ph.D. degree in Biochemical Sciences, received from the University of Rome "La Sapienza" - Italy. Supervisor: Prof. A. Finazzi-Agrò. Thesis: "Synthesis and characterization of non-enzymatic models for the study of copper amine oxidases"

Employment

- 1996 (Apr.) – 1998 (Apr.), *Regional Research Project*, sponsored and financed by the University of Cagliari - Italy. Research goal: Development of sustainable technologies for the extraction of fermentable sugars from by-products of agricultural activities

- 1998 (Dec.) – 1999 (May), *AIDS National Project* (Italy), Dipartimento di Scienze e Tecnologie Biomediche, University of L'Aquila - Italy. Research project: Effect of zidovudine (AZT) on the function of transferrin receptor and its relevance to the development of iron overload in HIV-infected patients

- 1999 (Jul.) – 2006 (Dec.), Research Scientist at the Faculty of Medicine and Surgery of the University of Cagliari - Italy

- 2007 (Jan.) – 2016 (Dec.), Associate Professor of Biochemistry (05/E1-BIO/10) at the Faculty of Medicine and Surgery of the University of Cagliari – Italy

- Starting from Jan. 2017, is **Full Professor** of Biochemistry (05/E1-BIO/10) at the Faculty of Medicine and Surgery of the University of Cagliari – Italy

Fellowships

- 1988 (Apr.-Jun.), *Erasmus Fellowship*, Department of Plant Cytology and Morphology, Agricultural University Wageningen - The Netherlands. Tutor: Prof. M.T.M. Willemse. Research project: Description and characterization of pollen maturation in *Gasteria* spp.

- 1991 (Jan.-Mar.), *Erasmus Fellowship*, Institute for the Amelioration of Plants, University of Lyon - France. Tutor: Prof. E. Matthys-Rochon. Research project: Development of suitable culture conditions for maize embryos

- 1992 (Jan.-Jul.), *Georgetown-Siena Exchange Fellowship*, Chemistry Department, Georgetown University, Washington DC - USA. Tutors: Prof. S. Kumar and Prof. D.C.H. Yang. Attendance of several graduate courses (experimental methods in biochemistry; enzyme reaction mechanisms; *et cetera*) and some laboratory work (with Prof. Yang) on Structure and function of mammalian aminoacyl-tRNA synthetases

- 2000 (May-Jun.), *FEBS Short Term Fellowship*, Helsinki Biophysics & Biomembrane Group, Department of Medical Chemistry, Insitute of Biomedicine, University of Helsinki – Finland. Group leader at the host institute: Prof. P. Kinnunen. Research project: Interactions of the antimicrobial peptide Temporin L with model lipid membranes: a tryptophan fluorescence study

Courses and Affiliations

- 1999, *SIBPA-INFM-IVSLA School of Biophysics*, "Spectroscopic Techniques and Computational Methods in the study of Biological Systems", January 25-29, Venice

- Member of the: *European Peptide Society*; *American Society for Microbiology* (past affiliation); *Società Italiana di Biochimica e Biologia Molecolare*; *Biophysical Society* (past affiliation)

Editorial and Meeting Duties

- Member of the Editorial Board of *AIMS Molecular Science* (http://www.aimspress.com/aimsmoles/ch/index.aspx)

- Review Editor for *Frontiers in Fungal Biology* (https://www.frontiersin.org/journals/fungal-biology), section Fungi-Plant Interactions

- *Ad hoc* referee for the following journal, book publishers, and grant funding societies:
  Acta Mycologica, Actualidades Biológicas, *Advances in Molecular Biology*, *African Journal of Biotechnology, African Journal of Environmental Science and Technology*[*], *African Journal of Microbial Research*[*], *American Journal of Respiratory and Critical Care Medicine*, *Amino Acids; Annals of Forest Science*, *Applied Soil Ecology*, *BMC Biology*, *BMC Immunology, BMC Microbiology*, *Biochimie*, *Biochimica Biophysica Acta-Biomembranes*, *Biochimica Biophysica Acta-Proteins and Proteomics*, *Biomaterials*, *Biomedical & Medicinal Chemistry*, *Biomed Research International*, *Bioorganic Chemistry*, *Biopolymers*, *BioSystems*, Botanical *Sciences*, CABI book series, *Cellular and Molecular Life Sciences, Chemical Biology & Drug Design*, *Chemistry – A European Journal*, *Comparative Biochemistry and Physiology*, *Current Microbiology*, *Current Pharmacological Design*, *Ecology and Evolution*, *Elsevier*, *European Biophysics Journal*, *European Journal of Biochemistry*, *European Journal of Pharmacology*, *Evidence-based Complementary and Alternative Medicine* (*eCAM*), *Expert Opinion in Drug Discovery*, *Diversity*, *Expert Opinion on Therapeutic Patents*, *FEBS Letters*, *Forests*, *Forest Ecology and Management*, *Forest Systems*,

[*] In collaboration with Dr. O. Comandini

Frontiers in Bioscience, *Fungal Biology*, *Fungal Ecology*, *Genes*, *Integrative and Comparative Biology*, *Inorganica Chimica Acta*, *International Journal of STD & AIDS*, IUCN book series, *Italian Journal of Mycology*, *Journal of Agriculture and Food Chemistry*, *Journal of the American Chemical Society*, *Journal of Chemical Information and Modeling*, *Journal of Ecology and the Natural Environment**, *Journal of Environmental Management*, *Journal of Fungi*, *Journal of Medical Microbiology*, *Journal of Medicinal Chemistry*, *Journal of Nature Conservation*, *Journal of Peptide Science*, *Journal of Vegetation Science*, *Lancet Infectious Diseases*, *Langmuir*, *Medical Science Monitor*, *Microbial Ecology**, *Molecules*, *Mycologia**, *Mycorrhiza**, *Mycotaxon*, *New Phytologist*, *Pathogens and Disease, Peptides*, *Pharmacological Research*, *Physiologia Plantarum*, *Plants*, *PLoS ONE*, *Polish Journal of Environmental Studies**, *Polymer*, *Proceedings of the National Academy of Sciences*, *Protein and Peptide Letters*, *Revista Fitotecnia Mexicana**, *Rhizosphere*, *Scientific Reports*, *Scientia Fungorum*, *Transactions of the Royal Society of Tropical Medicine and Hygiene*;

- Wellcome Trust, UK; British Society for Antimicrobial Chemotherapy, UK; Czech Science Foundation, Czech Republic; Netherlands Organisation for Scientific Research (NWO), The Netherlands; Marsden Fund*, New Zealand; South African Medical Research Council, South Africa; National Medical Research Council, Singapore; Superior Council of the National Fund for Scientific & Technological Development (FONDECYT), Chile; Portuguese Foundation for Science and Technology (FCT); Italian Ministry of Education, University and Research-MIUR, Italy (CIVR, VQR, PRIN referee); Consejo Nacional de Ciencia y Tecnología (CONACYT), Mexico

- Organizer and Chairman of the session *Models of Quinones and Quinoproteins*, 3rd International Symposium on Vitamin B6, PQQ, Carbonyl Catalysis and Quinoproteins, 14-19 April 2002, Southampton, UK;

- Invited speaker: Biophysics of Membrane Active Membranes, 455 WE-Heraeus Seminar, 11-14 April 2010, Bad Honnef, Germany;

- Invited speaker: VIII Congreso Brasileiro de Micologia, 3-6 October 2016, Florianopolis, Santa Catarina, Brazil;

- Invited speaker: International Workshop on Edible Mycorrhizal Mushrooms (IWEMM) 9, 10-14 July 2017, Texcoco, Mexico;

- Invited speaker: VII Rick Foray and Ecto Sul 2, 3-4 December 2018, Florianopolis, Santa Catarina, Brazil;

- Member of the scientific committee of the International Workshop on Edible Mycorrhizal Mushrooms (IWEMM) 10, 20-29 October 2019, Suwa, Nagano, Japan and 11, 22-26 April 2024, Esquel, Chubut, Argentina

- Invited speaker, 3rd Mediterranean Mycological Congress, 29th November-1st December 2019, Platres, Cyprus

Academic Activity

- He is currently in charge of the course of Biochemistry and Metabolic Biochemistry for the curriculum in General Medicine at the Faculty of Medicine and Surgery of the University of Cagliari, and for the course of Biochemistry for the curriculum in Natural Sciences at the Faculty of Biology and Pharmacy of the same university.

Scientific Collaborations (past and present)

- Università di Cagliari (Prof. M. Casu, Dr. O Comandini, Dr. A. Crisafulli, Dr. N. Curreli, Prof. G. Floris, Prof. E. Marini, Prof. R. Medda, Prof. A. Padiglia, Prof. A. Rescigno, Prof. P. Ruggerone, Prof. E. Sanjust, Dr. A. Scorciapino, Prof. P. Zucca)
- Università dell'Aquila (Dr. M. Leonardi, Prof. A. Bozzi, Prof. A. Di Giulio, Prof. M. Aschi)
- Università di Pisa (Prof. G. Batoni, Dr. G. Maisetta)
- Università Politecnica delle Marche (Prof. G. Scalise, Prof. A. Giacometti, Prof. O. Cirioni, Prof. V. Saba)
- Università di Roma "La Sapienza" (Prof. D. Barra, Prof. M. Simmaco, Prof. M.L. Mangoni)
- Università di Roma "Tor Vergata" (Prof. A. Finazzi-Agrò)
- University of Helsinki, Finland (Prof. P. Kinnunen, Dr. H.X. Zhao)
- Universidad de San Carlos de Guatemala, Città del Guatemala, Guatemala (Prof. R. Flores Arzú)
- Universidad Federal de Santa Catarina (Prof. Maria Alice Neves)
- Ashland University, U.S.A. (Prof. D.A. Dawson)
- Ghent University, Belgium (Prof. A. Verbeken, Dr. J. Nuytinck)
- Graz University, Austria (Prof. G. Pöch)
- Karlsruhe Institute of Technology (Prof. A. Ulrich)
- Wageningen Agricultural University, The Netherlands (Prof. T.W. Kuyper)
- Tel Aviv University, Israel (Prof. D. Graur; Dr. R. Ophir)
- Weizmann Insitute of Science, Israel (Prof. Y. Shai, Dr. N. Papo)
- SpiderBiotech (Dr. A. Giuliani, Dr. G. Pirri)
- Kunming Institute of Botany, China (Prof. Fu-Qiang Yu)

Current Research Work

Current research work is mainly focused on three main distinct projects, which involve the collaboration of several workers at various Italian and foreign Universities:

- My main line of research focuses on investigating the biodiversity, ecology and conservation issues of fungal organisms. There is, in this case, a thorough study of the ectomycorrhizal symbiosis (a mutualistic relationship of great ecological importance established between fungal hyphae in the soil and roots of higher plants) that involves basidiomycetes/ascomycetes and plants in selected ecosystems, both in Sardinia and abroad. The research includes the morpho-anatomical characterization of the ectomycorrhizas found in these environments and their molecular typing through sequencing of the internal transcribed spacer (ITS) of nuclear ribosomal genes. The molecular information is also used to define the phylogeny of the fungal species concerned. Evidence gathered from field research is finally used to analyze the conservation status of selected fungal species and to propose measures apt to protect fungal diversity in habitats of elevated ecological value.

- Mechanism of action of antimicrobial peptides, based on their interaction with biological and artificial biomembranes (liposomes, lipid monolayers, et cetera). Antimicrobial peptides (AMPs) are crucial humoral components of the innate immunity system of virtually all organisms, which they defend from the invasion of attacking pathogens. In addition to their antimicrobial activities, many AMPs also bind strongly to endotoxin, the lipopolysaccharide (LPS) component of the outer membrane of Gram-negative bacteria and the primary cause of septic shock, a serious clinical problem and a major cause of morbidity and mortality in patients hospitalized in intensive care units worldwide. The possibility of developing AMPs as potential antibacterial and anti-endotoxin agents has spurred a range of studies on the molecular mechanism of interaction of AMPs with lipid membranes and LPS based on model systems, as well as studies conducted in animal models to demonstrate the endotoxin sequestrating and neutralizing activities of peptides *in vivo*. Following this scheme, we are currently investigating, by using a range of biochemical, biophysical and microbiological experimental approaches, the structure/function relationships and the mechanism of antibacterial/anti-sepsis action of Temporins – potent antimicrobial peptides recently isolated from the European frog *Rana temporaria* – and of other antimicrobial peptides from frog skin, such as Esculentins and Bombinins. More recently, we have started to apply the same techniques and background to disclose the modes of action of semi-synthetic AMPs with dendrimeric structure and the interaction of selected AMPs with bacterial biofilms.

- Structure and function of copper amine oxidases, in particular with regard to the biogenetic mechanism and the catalytic properties and chemical reactivity of the quinonoid cofactors Topaquinone (TPQ), identified some time ago in the active site of many enzymes belonging to this class, and Lysyl Tyrosylquinone (LTQ), present in the active site of lysyl oxidase. Both cofactors are known to derive from a tyrosine residue forming part of the polypeptide chain of the protein through a self-catalytic mechanism, which requires only the protein itself, the copper atom present in the active site, and molecular oxygen. The peculiarity of the phenomenon, which has no precedent known for other enzymes, poses interesting mechanicistic questions, also about the enzymes' catalytic properties. Our efforts in this field of research focused on the preparation and characterization of model compounds with TPQ- and LTQ-like structure, after investigating their catalytic activity toward amino substrates and their responsiveness to known inhibitors of copper amine oxidases. The biogenetic mechanism through which the cofactors are generated by the protein was investigated by means of biomimetic studies involving the transformation, in different reaction conditions, of variously substituted phenolic and cathecolic compounds, to obtain TPQ- and LTQ-like compounds and/or intermediates of the biogenetic process. The effect of Cu (II) ions, either complexed and free in solution, is also studied, in order to establish the exact role played by the copper atom present in the active site in the cofactor genesis. A collaboration with Douglas Dawson (Ashland University, Ohio, USA) and Gerald Poch (Graz University, Austria) has allowed us to initiate a study on the reactivity of the LTQ to numerous lathyrogenic compounds, comparing these results with those obtained from toxicological studies of the

effects of same compounds in animal models. The purpose of this research is to determine the molecular mechanism of action of compounds capable of causing lathyrism, which is still largely unknown.

Grants

Funds to perform experimental work has been awarded to Prof. Rinaldi, either as Principal Investigator or collaborator, from a range of national funding agencies, including the Italian Ministry of Education, Universities, and Research (MIUR – PRIN 2003, 2005, 2008, Cooperlink, et cetera), University of Cagliari (e.g., ex 60%), and the Sardinia Regional Government.

biodiversa+ - European Biodiversity Partnership, call 2022-2023. Project: FunDive - Monitoring and mapping fungal diversity for nature conservation (https://fun-dive.eu/). Role in project, Vice-Coordinator for the entire project and Coordinator of Italian partners.

PRIN PNRR 2022, Italian Ministry of University and Research. Project: Tapping into the biological potential of wild mushrooms from a range of ecosystems in Sardinia and Abruzzi: FUNSarAbr

List of Publications

1) Rescigno A, **Rinaldi AC**, Curreli N, Olianas A, Sanjust E
A dyed substrate for the assay of endo-1,4-β-glucanases
Journal of Biochemical and Biophysical Methods **28**: 123-129, 1994.

2) **Rinaldi AC**, Sanjust E, Rescigno A, Finazzi-Agrò A, Rinaldi A
Photometric estimation of cadaverine oxidation by copper amine oxidase
Biochemistry and Molecular Biology International **34**: 699-704, 1994

3) Sanjust E, **Rinaldi AC**, Rescigno A, Porcu MC, Alberti G, Rinaldi A, Finazzi-Agrò A
A hydroxyquinone with amine oxidase activity: preparation and properties
Biochemical and Biophysical Research Communications **208**: 825-834, 1995.

4) Rescigno A, Sollai F, Masala S, Porcu MC, Sanjust E, **Rinaldi AC**, Curreli N, Grifi D, Rinaldi A
Purification and characterization of an NAD(P)H:quinone oxidoreductase from *Glycine max* seedlings
Preparative Biochemistry **25**: 57-67, 1995.

5) **Rinaldi AC**, Comandini O
I peptidi tossici contenenti D-aminoacidi estratti da Basidiomiceti del genere *Amanita*
Micologia Italiana **24**: 11-16, 1995

6) Rescigno A, Porcu MC, Sanjust E, **Rinaldi AC**, Rinaldi A
Inhibitory effect of NAD(P)H:quinone oxidoreductase on autoxidation of 6-hydroxydopa and 6-hydroxydopamine
Biochemical Archives **11**: 161-169, 1995

7) Rescigno A, Porcu MC, Olianas A, **Rinaldi AC**, Sanjust E, Cocco D, Rinaldi A
Effect of NAD(P)H:quinone oxidoreductase on tyrosinase-mediated oxidation of opioid neuropeptides Leu-enkephalin and Met-enkephalin
Biochemistry and Molecular Biology International **37**: 319-327, 1995

8) **Rinaldi AC**, Porcu MC, Curreli N, Rescigno A, Finazzi-Agrò A, Pedersen JZ, Rinaldi A, Sanjust E
Autoxidation of 4-methylcatechol: a model for the study of the biosynthesis of copper amine oxidases quinonoid cofactor
Biochemical and Biophysical Research Communications **214**: 559-567, 1995.

9) Sollai F, Curreli N, Porcu MC, Rescigno A, **Rinaldi AC**, Rinaldi A, Rossino P, Soddu G, Sanjust E
Effects of some substituted anthraquinones and anthrones on laccase production in *Pleurotus sajor-caju*
Biochemical Archives **12**: 7-12, 1996

10) **Rinaldi AC**, Rescigno A, Sollai F, Soddu G, Curreli N, Rinaldi A, Finazzi-Agrò A, Sanjust E
Dopaquinone hydroxylation through topaquinone cofactor in copper amine oxidase: a simplified chemical model
Biochemistry and Molecular Biology International **40**: 189-197, 1996

11) Rescigno A, Sollai F, **Rinaldi AC**, Soddu G, Sanjust E
Polyphenol oxidase activity staining in polyacrilamide electrophoresis gels
Journal of Biochemical and Biophysical Methods **34**: 155-159, 1997.

12) Sanjust E, Angius C, Curreli N, Grifi D, Porcu MC, **Rinaldi AC**, Sollai F, Rescigno A, Rinaldi A
New mercurated resins for covalent immobilization
European Polymer Journal **33**: 549-551, 1997.

13) Rescigno A, Sollai F, Sanjust E, **Rinaldi AC**, Curreli N, Rinaldi A
Diafiltration in the presence of ascorbate in the purification of mushroom tyrosinase
Phytochemistry **46**: 21-22, 1997.

14) Rescigno A, Sanjust E, Montanari L, Sollai F, Soddu G, **Rinaldi AC**, Oliva S, Rinaldi A
Detection of laccase, peroxidase, and polyphenol oxidase on a single polyacrylamide gel electrophoresis
Analytical Letters **30**: 2211-2220, 1997.

15) Curreli N, Fadda MB, Rescigno A, **Rinaldi AC**, Soddu G, Sollai F, Vaccargiu S, Sanjust E, Rinaldi A
Mild alkaline/oxidative pretreatment of wheat straw
Process Biochemistry **32**: 665-670, 1997.

16) Curreli N, Oliva S, Rescigno A, **Rinaldi AC**, Sollai F, Sanjust E
Novel diazonium-functionalised support for immobilization experiments
Journal of Applied Polymer Science **66**: 1433-1438, 1997.

17) **Rinaldi AC**, Porcu MC, Oliva C, Curreli N, Rescigno A, Sollai F, Rinaldi A, Finazzi-Agrò A, Sanjust E
Biosynthesis of the topaquinone cofactor in copper amine oxidases: evidence from model studies
European Journal of Biochemistry **251**: 91-97, 1998.

18) Comandini O, Pacioni G, **Rinaldi AC**
Fungi in ectomycorrhizal associations of silver fir (*Abies alba* Miller) in Central Italy
Mycorrhiza **7**: 323-328, 1998.

19) **Rinaldi AC**, Ophir R
Phylogeny of anaspid taxa as inferred from amino-acid sequences of monomeric myoglobins
Israel Journal of Zoology **44**: 3-8, 1998

20) Rescigno A, Sanjust E, Soddu G, **Rinaldi AC**, Sollai F, Curreli N, Rinaldi A
Effect of 3-hydroxyanthranilic acid on mushroom tyrosinase activity
Biochimica et Biophysica Acta **1384**: 268-276,1998.

21) Rescigno A, **Rinaldi AC**, Sanjust E
Some aspects of tyrosine secondary metabolism
Biochemical Pharmacology **5**: 1089-1096, 1998.

22) **Rinaldi AC**, Comandini O
Cytokinin oxidase: new insight into enzyme properties
Trends in Plant Science **4**: 127-128, 1999.

23) D'Alessandro AM, D'Andrea G, Di Ciccio L, Brisdelli F, **Rinaldi AC**, Bozzi A, Oratore A
3'-Azido-3'-deoxythymidine reduces the rate of transferrin receptor endocytosis in K562 cells
Biochimica et Biophysica Acta **1450**: 232-241, 1999.

24) **Rinaldi AC**, Rescigno A, Rinaldi A, Sanjust E
Modeling novel quinocofactors: an overview
Bioorganic Chemistry **27**: 253-288, 1999.

25) **Rinaldi AC**, Comandini O
Cytokinin oxidase strikes again
Trends in Plant Science **4**,: 300, 1999.

26) Mangoni ML, **Rinaldi AC**, Di Giulio A, Mignogna G, Bozzi A, Barra D, Simmaco M
Structure-function relationships of temporins, small antimicrobial peptides from amphibian skin.
European Journal of Biochemistry **267**: 1447-1454, 2000.

27) **Rinaldi AC**
Meeting report – Copper research at the top
BioMetals **13**: 9-13, 2000.

28) D'Alessandro AM, **Rinaldi AC**, D'Andrea G, Brisdelli F, Di Ciccio L, Di Giulio A, Oratore A, Bozzi A
Evidences that zidovudine (AZT) could not be directly responsible of iron overload in AZT-treated patients: an *in vitro* study
Clinica Chimica Acta **300**: 119-130, 2000.

29) **Rinaldi AC**, Ponticelli G, Oliva S, Di Giulio A, Sanjust E
Copper-promoted overall transformation of 4-*tert*-butylphenol to its *para*-hydroxyquinonic derivative. Biomimetic studies on the generation of topaquinone in copper amine oxidases
Bioorganic & Medicinal Chemistry Letters **10**: 989-92, 2000.

30) Eberhardt U, Oberwinkler F, Verbeken A, Pacioni G, **Rinaldi AC**, Comandini O
Lactarius ectomycorrhizae on *Abies alba*: morphological description, molecular characterization, and taxonomic remarks
Mycologia **92**: 860-873, 2000.

31) **Rinaldi AC**, Di Giulio A, Liberi M, Gualtieri G, Simmaco M, Barra D, Bozzi A
Effects of temporins on molecular dynamics and membrane permeabilization in lipid vesicles.
Journal of Peptide Research **58**: 213-220, 2001.

32) Comandini O, **Rinaldi AC**
Together, but not for ever: ectomycorrhizal symbiosis is an unstable affair
Mycological Research **105**: 130-131, 2001.

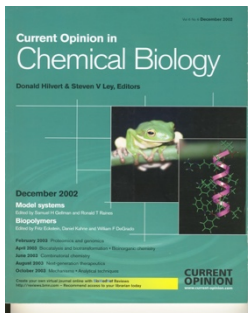
33) Curreli N, **Rinaldi AC**, Sollai F, Massa L, Comandini O, Sanjust E, Rinaldi A
Effects of plant-derived naphthoquinones on the growth of *Pleurotus sajor-caju*
Journal of Basic Microbiology **41**: 253-259, 2001.

34) Comandini O, Pacioni G, **Rinaldi AC**
An assessment of below-ground ectomycorrhizal diversity of *Abies alba* Miller in central Italy
Plant Biosystems **135**: 337-350, 2001.

35) Zhao HX, **Rinaldi AC**, Di Giulio A, Simmaco M, Kinnunen PKJ
Interactions of the antimicrobial peptides temporins with model membranes. Comparison of Temporin B and Temporin L.
Biochemistry **41**: 4425-4436, 2002.

36) Dawson DA, **Rinaldi AC**, Pöch G
Biochemical and toxicological evaluation of agent-cofactor reactivity as a mechanism of action for osteolathyrism
Toxicology **177**: 267-284, 2002.

37) **Rinaldi AC**, Mangoni ML, Rufo A, Luzi C, Simmaco M, Barra D, Zhao HX, Kinnunen PKJ, Bozzi A, Di Giulio A
Temporin L: antimicrobial, hemolytic, cytotoxic activities and effects on membrane permeabilization in lipid vesicles
Biochemical Journal **367**: 91-100, 2002.



38) **Rinaldi AC**
Antimicrobial peptides from amphibian skin: an expanding scenario
Current Opinion in Chemical Biology **6**: 799-804, 2002.

39) Zhao HX, **Rinaldi AC**, Rufo A, Bozzi A, Kinnunen PKJ, Di Giulio A
Structural and charge requirements for antimicrobial peptide insertion into biological and model membranes
In: *Pore-Forming Peptides and Protein Toxins*; G. Menestrina, M. Dalla Serra, P. Lazarovici (eds.), Harwood Academic Publishers, Chapter 9, pp.151-177, 2003.

40) Dawson DA, Scott BD, Ellenberger MJ, Pöch G, **Rinaldi AC**
Evaluation of dose-response curve analysis in delineating shared or different molecular sites of action
Environmental Toxicology and Pharmacology **16**: 13-23, 2004.

41) Nuytinck J, Verbeken A, Leonardi M, Pacioni G, **Rinaldi AC**, Comandini O
Characterization of *Lactarius tesquorum* ectomycorrhizae on *Cistus* sp., and molecular phylogeny of related European *Lactarius* taxa
Mycologia **96**: 272-282, 2004.

42) Comandini O, **Rinaldi AC**
Tracing megafaunal extinctions with dung fungal spores
The Mycologist **18**: 140-142, 2004

43) Comandini O, Haug I, **Rinaldi AC**, Kuyper TW
Uniting *Tricholoma sulphureum* and *T. bufonium*
Mycological Research **108**: 1162-1171, 2004.

44) Bozzi A, Brindelli F, D'Alessandro AM, D'Andrea G, Lizzi AR, **Rinaldi AC**, Oratore A
Effects of AZT on cellular iron homeostasis
BioMetals **17**: 443-450, 2004.

45) Mangoni ML, Barra D, Simmaco M, Bozzi A, Di Giulio A, **Rinaldi AC**
Effects of the antimicrobial peptide temporin L on cell morphology, membrane permeation, and viability of *Escherichia coli*
Biochemical Journal **380**: 859-865, 2004.

46) Mura A, Medda R, Longu S, Floris G, **Rinaldi AC**, Padiglia A
A Ca^{2+}/calmodulin-binding peroxidase from *Euphorbia* latex. Novel aspects of calcium-hydrogen peroxide cross-talk in the regulation of plant defenses
Biochemistry **44**: 14120-14130, 2005.

47) Mura A, Longu S, Padiglia A, **Rinaldi AC**, Floris G, Medda R
Reversible thermal inactivation and conformational states in denaturant guanidinium of a calcium-dependent peroxidase from *Euphorbia characias*
International Journal of Biological Macromolecules **37**: 205-211, 2005.

48) D'Abramo MD, **Rinaldi AC**, Bozzi A, Amadei A, Mignogna G, Di Nola A, Aschi M
Conformational behaviour of Temporin A and Temporin L in aqueous solutions: a computational/experimental study
Biopolymers **81**: 215-224, 2006.

49) **Rinaldi AC**, Bonamore A, Macone A, Boffi A, Bozzi A, Di Giulio A
Interaction of *Vitreoscilla* hemoglobin with membrane lipids
Biochemistry **45**: 4069-4076, 2006.

50) Giacometti A, Cirioni O, Ghiselli R, Mocchegiani F, Orlando F, Silvestri C, Bozzi A, Di Giulio A, Luzi C, Mangoni ML, Barra D, Saba V, Scalise G, **Rinaldi AC**
Interaction of temporin L with lipopolysaccharide *in vitro* and in experimental rat models of septic shock caused by gram-negative bacteria
Antimicrobial Agents and Chemoterapy **50**: 2478-2486, 2006.

51) Comandini O, Contu M, **Rinaldi AC**
An overview of *Cistus* ectomycorrhizal fungi
Mycorrhiza **16**: 381-395, 2006.

52) Mura A, Pintus F, Medda R, Floris G, **Rinaldi AC**, Padiglia A
Catalase and antiquitin from *Euphorbia characias*: two proteins involved in plant defense?
Biochemistry (Moscow) **72**: 501-508, 2007.

53) Bozzi A, Coccia C, Di Giulio A, **Rinaldi AC**, Amadei A, Mignogna G, Bonamore A, Fais A, Aschi M
Folding propensity and biological activity of peptides: new insights from conformational properties of a novel peptide derived from *Vitreoscilla* haemoglobin
Biopolymers **87**: 85-92, 2007.

54) Barra D, **Rinaldi AC**
Immunità innata
In: *Enciclopedia Medica Italiana* (L. Vella, ed.), III° Aggiornamento, pp. 1588-1606, UTET, Torino, Italy, 2007

55) Giuliani A, Pirri G, Bozzi A, Di Giulio A, Aschi M, **Rinaldi AC**
Antimicrobial peptides: natural templates for synthetic membrane-active compounds
Cellular and Molecular Life Sciences **65**: 2450-2460, 2008.

56) Bozzi A, Mangoni ML, **Rinaldi AC**, Mignogna G, Aschi M
Folding propensity and biological activity of peptides: the effect of a single stereochemical isomerization in structural and mechanical properties of bombinins in aqueous solution
Biopolymers **89**: 769-778, 2008.

57) Pintus F, Mura A, **Rinaldi AC**, Contini A, Spanò D, Medda R, Floris G
Activity and structural changes of *Euphorbia characias* peroxidase in the presence of trifluoroethanol
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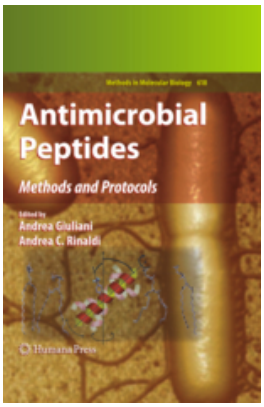

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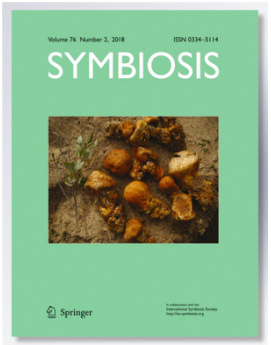

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Pseudosperma calciphilum (*Inocybaceae*), a new Mediterranean species from Sardinia (Italy), Malta, and Valencia (Spain)
Phytotaxa **633**: 253–264, 2024

132) Sanna M, Mua A, Casula M, **Rinaldi AC**
Inocybaceae (*Basidiomycota*) in ectomycorrhizal symbiosis with *Halimium* (*Cistaceae*), and the description of two new species of *Inocybe* from Sardinia (Italy)
Diversity **16**: 505, 2024

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Fungal Diversity Notes, in press

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PLOS ONE, in press

136) Haelewaters D, Aghayeva D, de-Miguel S, Degtjarenko P, Dierickx G, Dima B, Dyer PS, Fachada V, Favero Longo SE, Filippova NV, Ganado M, Gonçalves SC, Heilmann-Clausen J, Hyland E, Iršėnaitė R, Jorjadze A, Krisai-Greilhuber I, Lazarević J, Marques G, Meiere D, Nascimbene J, Niell M, Nuytinck J, Ottosson E, Papp V, Pärtel K, Prylutskyi O, Ramshaj Q, **Rinaldi A**, Rusevska K, Ruszkiewicz-Michalska M, Schneider S, Schoutteten N, Schwab N, Siedlecki I, Soares Simão R, Sparrius LB, Thüs H, Vizzini A, Westberg M, Zambonelli A, Zehnálek P, Zervakis GI, Pawłowska J
Historical and current landscape of mycological organizations in Europe
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137) Biketova AY, **Rinaldi AC**, Simonini G, Garrido-Benavent I, Polemis E, Conca A, Woods R, Wasser SP, Zervakis GI, Borovička J
Revision of the Genus Cyanoboletus (Boletaceae) in Mediterranean Europe and Israel with notes on arsenic hyperaccumulation
Journal of Fungi, in preparation

Bibliometric data

About 7349 citations on Google Scholar (as of May 2025, 6392 on ResearchGate, 4971 on Scopus[1]), including those for science communication articles. ***H*** **index** (Google Scholar) = **46** (40 on ResearchGate, 38 on Scopus). Source: Google Scholar, ISI Web, ResearchGate, Scopus.

ORCID ID: 0000-0002-9352-1037

Google Scholar: http://scholar.google.it/citations?user=tNdxmYUAAAAJ&hl=en&authuser=1

ResearchGate: https://www.researchgate.net/profile/Andrea_Rinaldi2

Scopus: https://www.scopus.com/authid/detail.uri?authorId=16511231200

Prof. Rinaldi is listed among the Top Italian Scientists (TIS), Biomedical Sciences, rank = 1507: http://topitalianscientists.org/tis/47740/Andrea_C._Rinaldi_-_Top_Italian_Scientists_in_Biomedical_Sciences

Prof. Rinaldi has been listed among the top 2% of scholars in the world, in 2019, 2020, 2021, 2022, 2023, and 2024 [see Ioannidis JPA, Baas J, Klavans R, Boyack KW (2019) A standardized citation metrics author database annotated for scientific field. PLoS Biol 17(8): e3000384; Ioannidis JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918; Baas J, Kevin B, Ioannidis JPA (2021) August 2021 data-update for "Updated science-wide author databases of standardized citation indicators", Mendeley Data, V3, doi: 10.17632/btchxktzyw.3; Ioannidis JPA (2022) September 2022 data-update for "Updated science-wide author databases of standardized citation indicators", Mendeley Data, V5, doi:10.17632/btchxktzyw.5; Ioannidis JPA (2023) October 2023 data-update for "Updated science-wide author databases of standardized citation indicators", Elsevier Data Repository, V6, doi: 10.17632/btchxktzyw.6; Ioannidis, John P.A. (2024), August 2024 data-update for "Updated science-wide author databases of standardized citation indicators", Elsevier Data Repository, V7, doi: 10.17632/btchxktzyw.7]

Abstracts

About 50 posters and relevant abstracts presented at national and international congresses, meetings and workshops

Wikipedia

- Creator of the encyclopedia's entry 'Macrofungi of Guatemala' (http://en.wikipedia.org/wiki/Macrofungi_of_Guatemala)

- Contributor to the encyclopedia's entries 'Yaws' (http://en.wikipedia.org/wiki/Yaws) and 'Eradication of infectious diseases' (https://en.wikipedia.org/wiki/Eradication_of_infectious_diseases)

[1] Scopus, ISI Web, ResearchGate and Google Scholar, each have unique citations, as source coverage does not overlap completely (see *Biomedical Digital Libraries* 2006, **3:**7)

Activity as Science Writer and Communicator

- 2001 (Jan.) - 2002 (Dec.), External Editor for ***Trends in Biochemical Sciences*** (www.tibs.com). For two years he is in charge of searching news and stories of interest for the international biochemical and molecular biology community, and of compiling numerous relevant round-ups and comments to be published in this word leading review magazine in biochemistry

- Scientific books reviewer for ***Le Scienze***, Italian edition of *Scientific American*. Published reviews:
  i) *The Deep Hot Biosphere*, by Thomas Gold, *Le Scienze*, June 2001, p. 123
  ii) *Responding to Bioprospecting. From Biodiversity in the South to Medicines in the North*, by Hanne Svarstad and Shivcharn S. Dhillion (eds), *Le Scienze*, October 2001, p. 114
  iii) *Per una storia del Consiglio Nazionale delle Ricerche*, by Raffaella Simili and Giovanni Paoloni (eds.), *Le Scienze*, July 2002, p. 107

- In the period January-December 2003, he contributes regularly to ***The Scientist***, writing research round-ups for *The Daily News Service* (www.biomedcentral.com/news; www.the-scientist.com), an online newsletter and alert service devoted to keep both researchers and general audiences worldwide abreast of the latest advances in cutting-edge scientific research

- More recently, he started to collaborate with ***SciDev.Net*** (www.scidev.net), a portal of scientific information relevant to the developing countries sponsored by both public and private parties, ***PLOS Medicine*** (http://medicine.plosjournals.org), ***PLOS Neglected Tropical Diseases*** (http://www.plosntds.org/), and ***EMBO reports*** (www.nature.com/embor), writing "analysis papers" for the Science & Society section of this important magazine. He also regularly writes for *Darwin* (www.darwinweb.it), an Italian magazine focused on science communication and the public understanding of science.

- 2008-2009, Organizer and teacher at the Master in Science Communication of the University of Cagliari (http://mcs.unica.it)

- 2012, Organizer of the science film festival entitled "I Geni e le Stelle", 6 Nov. – 6 Dec. (Cagliari, Italy; mcs.unica.it/locandina.pdf)

- 2013-2015, Collaborator at large, for what concerns communications, of COHRED, the Council on Health Research for Development, a global, non-profit organisation whose singular goal is to maximize the potential of research and innovation to deliver sustainable solutions to the health and development problems of people living in low and middle-income countries (http://www.cohred.org/home/)

- **Full-length articles**

International magazines

1) **Rinaldi A**
A new code for life
EMBO Reports **5**: 336-339, 2004

2) **Rinaldi A**
Hormone therapy for the ageing
EMBO Reports **5**: 938-941, 2004

3) **Rinaldi A**
Fighting malaria at the crossroads
EMBO Reports **5**: 847-851, 2004

4) **Rinaldi A**
The newt in us
EMBO Reports **6**: 113-115, 2005

5) **Rinaldi A**
Adopting an orphan
EMBO Reports **6**: 507-510, 2005

6) **Rinaldi A**
A bloodless revolution
EMBO Reports **6**: 705-708, 2005

7) **Rinaldi A**
The global campaign to eliminate leprosy
PLoS Medicine **2**: e341, 2005

8) **Rinaldi A**
The phantom menace
EMBO Reports **7**: 14-17, 2006

9) **Rinaldi A**
More than the sum of their parts?
EMBO Reports **7**: 133-136, 2006
[reprinted in the newsletter of the Association of University Research Parks (AURP), 3rd quarter 2006, www.aurp.net]

10) **Rinaldi A**
Private ownership of public heritage
EMBO Reports **7**: 571-575, 2006

11) **Rinaldi A**
The cold side of life
EMBO Reports **7**: 759-763, 2006

12) **Rinaldi A**
Saving a fragile legacy
EMBO Reports **7**: 1075-1079, 2006

13) **Rinaldi A**
Tiny travel companions
EMBO Reports **8**: 121-125, 2007

14) **Rinaldi A**
Space life holds its breath
EMBO Reports **8**: 436-440, 2007

15) **Rinaldi A**
The scent of life
EMBO Reports **8**: 629-633, 2007

16) **Rinaldi A**
Naturally better
EMBO Reports **8**: 995-999, 2007

17) **Rinaldi A**
Access evolved?
EMBO Reports **9**: 317-321, 2008

18) **Rinaldi A**
Yaws: a second (and maybe last) chance for eradication
PLoS Neglected Tropical Diseases **2**: e275, 2008

19) **Rinaldi A**
Healing beauty?
EMBO Reports **9**: 1073-1077, 2008

20) **Rinaldi A**
Free, at last! The progress of new disease eradication campaigns for Guinea worm disease and polio, and the prospect of tackling other diseases
EMBO Reports **10**: 215-221, 2009

21) **Rinaldi A**
Science wikinomics: Mass networking through the web creates new forms of scientific collaboration
EMBO Reports **10**: 439-443, 2009

22) **Rinaldi A**
Homo economicus?: Neuroeconomics and other disciplines aim to identify the biological traits governing our financial behaviour, but not without accompanying criticism
EMBO Reports **10**: 823-826, 2009

23) **Rinaldi A**
Speak to me, melody. Music's biological roots and its relationships with language under scrutiny
EMBO reports **10**: 1294-1297, 2009

24) **Rinaldi A**
For I dipped into the future. The internet and other developments are reshaping the way science is communicated, transforming the traditional scientific article to become more interactive and more useful
EMBO reports **11**: 345-349, 2010

25) **Rinaldi A**, Nicoletto SF
In the womb's shadow
EMBO reports **12**: 30-34, 2011

26) **Rinaldi A**
Teaming up for the biomarker future
EMBO reports **12**: 500-504, 2011

27) **Rinaldi A**
When life gets physical
EMBO reports **13**: 24-27, 2012

28) **Rinaldi A**
To hype or not to(o) hype
EMBO reports **13**: 303-307, 2012

29) **Rinaldi A**
More than meets the eye
EMBO reports **13**: 895-899, 2012

30) **Rinaldi A**
Yaws eradication: facing old problems, raising new hopes
PLoS Neglected Tropical Diseases **6**: e1837, 2012

31) **Rinaldi A**
Tackling animal diseases to protect human health
EMBO reports **14**: 31-35, 2013

32) **Rinaldi A**
Brothers in arms
EMBO reports **14**: 866-870, 2013

33) **Rinaldi A**
Spining the web of open science
EMBO reports **15**: 342-346, 2014

34) **Rinaldi A**
Reawakening anesthesia research
EMBO reports **15**: 1113-1118, 2014

35) **Rinaldi A,** Shetty P
Traditional medicine for modern times: Facts and figures
SciDev.Net: https://www.scidev.net/global/medicine/feature/traditional-medicine-modern-times-facts-figures.html

36) **Rinaldi A**
Biometrics' new identity—measuring more physical and biological traits
EMBO reports **17**: 22-26, 2016

36) **Rinaldi A**
Research in space: in search of meaning
EMBO reports **17**: 1098-1102, 2016

37) **Rinaldi A**
Piecing together a different view
EMBO reports **17**: 1690-1695, 2016

38) **Rinaldi A**
We're on the road to nowhere
EMBO reports **18**: 2094-2100, 2017

39) **Rinaldi A**
Setbacks and promises for drugs against Alzheimer's disease
EMBO reports **19**: e46714, 2018

40) **Rinaldi A**
RNA to the rescue
EMBO reports **21**: e51013, 2020

41) **Rinaldi A**
Biodiversity 2030: the road is paved with good intentions
EMBO reports **22**: e53130, 2021

42) **Rinaldi A**
I was born this way
EMBO reports **23**: e55290, 2022

43) **Rinaldi A**
The fountain of youth of mitochondrial research
EMBO reports **24**: e58118, 2023

National magazines

1) **Rinaldi A**
La ricerca biomedica riscopre le razze
Darwin **no. 13**, May-June 2006, pp. 40-47

2) **Rinaldi A**, Comandini O, Flores R
I funghi dei maya
Darwin Quaderni, 'Il mondo in dieci viaggi', December 2006, pp. 36-47

3) **Rinaldi A**
Un pieno di speranze nel serbatoio dell'auto
Darwin **no. 17**, January-February 2007, pp. 28-35

4) **Rinaldi A**
In viaggio con pylori
Darwin **no. 19**, May-June 2007, pp. 14-19

5) **Rinaldi A**
Una scintilla nel buio per innescare la vita
Darwin **no. 25**, Ma-June 2008, pp. 26-31

6) **Rinaldi A**
Una battaglia interrotta che possiamo vincere
Darwin **no. 28**, November-December 2008, pp. 30-37
(Italian translation of *PLoS Neglected Tropical Diseases* **2**, e275, 2008)

Invited speaker as science communicator

Darwin Day: 'Evolution in Medicine'
Race in genetics and medicine
9 February 2008, Rome

UNISTEM 2013
Come comunicare la scienza
15 March 2013, Cagliari

UNISTEM 2014
Come comunicare la scienza. Il caso STAMINA
14 March 2014, Cagliari

Italia Unita per la Scienza
La bufala è servita
22 May 2014, Cagliari

Festival Scienza, VII edizione
La scienza ci aiuta e gli animali aiutano la scienza
6 novembre 2014, Cagliari

Festival Scienza, VII edizione
Scienza e social media
8 novembre 2014, Cagliari

Accademia dei Lincei
Una Nuova Didattica nella Scuola
Social media, Web, e scienza: cosa fare in classe
23 aprile 2015, Oristano

Festival Scienza, I edizione Oristano
Quasi quasi mi vaccino…..
7 Dicembre 2016, Oristano

SulcisScienza 2017
Scienza e Media: Precauzioni per l'Uso
14 Novembre 2017, Carbonia

Festival Scienza, II edizione Oristano
Il cibo che verrà
30 Novembre 2017, Oristano

- Other articles

1) **Rinaldi AC**
Frequenza e distribuzione di *Vitreolina philippi* (De Rayneval & Ponzi, 1854) (Prosobranchia), Eulimidae) su due specie di echinoidei regolari lungo le coste meridionali della Sardegna
Bollettino Malacologico **30**: 29-32, 1994

2) **Rinaldi AC**
Un sentiero naturalistico per i Sette Fratelli
Sardegna Magazine **9** (8): 11, 1994

3) **Rinaldi AC**
Apysia's many resources
La Conchiglia **26** (273): 47-50, 1994

4) **Rinaldi AC**
Rocco Capellino, ingegnere di Sua Maestà
Sardegna Magazine **10** (4): 24, 1995

5) **Rinaldi AC**
Molluschi che scompaiono nel mondo. Le specie protette dalla normativa CITES
Notiziario S.I.M. **13** (4-6): 37-40, 1995

6) **Rinaldi AC**
A possible case of hybridism in the genus *Erosaria* Tröschel, 1863
La Conchiglia **28** (278): 42-43, 1996

7) **Rinaldi AC**
About *Erosaria marginalis* Dillwyn, 1827 (Cypraeidae, Prosobranchia)
La Conchiglia **29** (282): 55-59, 1997

8) **Rinaldi AC**
F.M. Regenfuss' Exquisite Shells (1758, vol. I) revisited
La Conchiglia **30** (289): 8-9, 1998

9) **Rinaldi AC**
Del *Bollettino*, delle citazioni, e di altro ancora
Notiziario S.I.M. **20** (1-4): 20-23, 2002

10) **Rinaldi AC**
New records of *Testacella* (Gastropoda, Pulmonata, Testacellidae) from Abruzzo and Sardinia
Bollettino Malacologico **39**: 203-206, 2003

11) **Rinaldi AC**
Notes about *Testacella* (Gastropoda, Pulmonata, Testacellidae)
La Conchiglia **35** (309): 47-54, 2003

12) **Rinaldi A**
1944 - I francesi occupano l'Elba - storia di un falso
La Voce del CIFR **no. 83**: 8-11, 2010

13) **Rinaldi A**
Biospeleologia: Buon euprotto a tutti!
Anthèo **no. 10**: 105-107, 2011

14) **Rinaldi A**
Il curioso caso del Capitano Lomazzi
La Voce del CIFR **no. 95**: 24-28, 2012

15) Arrica S, Loru R, **Rinaldi A**
Progetto colorazioni nel Supramonte orientale
Sardegna Speleologica **no. 26**: 4-8, 2014

16) Arrica S, Melis G, Loru R, **Rinaldi A**
Colorazioni nel Supramonte Orientale
Speleologia **no. 70**: 44-47, 2014

17) Antoni G, Tuveri V, **Rinaldi A**
Progetto di rilevamento e monitoraggio del dispendio energetico durante l'attività speleologica
Sardegna Speleologica **no. 28**: 46-55, 2016

18) Antoni G, **Rinaldi A**, Tuveri V
Progetto di rilevamento e monitoraggio del dispendio energetico durante l'attività speleologica
Speleologia **no. 74**: 38-42, 2016

19) Arrica S, Melis G, **Rinaldi A**
Le colorazioni. Alla ricerca della via dell'acqua.
Sardegna Speleologica **no. 29**: 104-107, 2017

20) **Rinaldi A**, Mereu L, Melis G, Arrica S
Serra Pirisi: alla ricerca del collettore a monte
Anthèo **no. 11**: 29-39, 2018

21) Antoni G, **Rinaldi A**, Curreli N, Marini E, Crisafulli A, Tuveri V
Grotta-laboratorio in Sardegna: ricercatori dell'Università di Cagliari misurano il dispendio energetico durante l'attività speleologica
Anthèo **no. 11**: 87-92, 2018

Cagliari, 16 May 2025

Andrea Rinaldi