

## **Personal Data**

Surname: Savino

Name: Elena

Date of birth: December 7th, 1957

Organization and Position: Università degli Studi di Pavia – Dipartimento di Scienze della Terra e degli Ambienti (DSTA). Senior Researcher and Assistant Professor

## **Education and training**

1997 – present: Senior Researcher and Assistant Professor (SSD BIO/02), University of Pavia (Italy), DSTA

1991-1997: Teacher of “mathematics, chemistry, physics and natural sciences” at the middle school level, Province of Pavia (Italy), as winner of National competition.

1988-1991: Volunteer researcher at Institute of Medical Mycology, University of Pavia (Italy);  
Temporary teacher of “mathematics, chemistry, physics and natural sciences” at the middle school level, Province of Pavia (Italy)

1986-1988: Assistant Biologist, Clinic of Work Foundation “S. Maugeri” – I.R.C.C.S., Pavia (Italy)

1980-1996: Research Fellow Assistant or Volunteer, Institute of Medical Mycology, University of Pavia (Italy).

1985: Refresher Course for health professionals responsible for the diagnosis and treatment of poisoning from mushrooms, and the inspection of mushrooms (Lombardy Region)

1984 and 1985: XXth and XXIth National Course of Training for health professionals responsible for the control of mushrooms (Province of Trento-I).

1983: Member of the National Order of Biologists

1987 – Master in Histochemistry and Cytochemistry, University of Pavia

1980 – Degree (= MSc) in Biological Sciences, University of Pavia (Experimental Thesis on Aeromycology); awarded maximum grade, 110/110 with praise

1971-1976: Scientific high school degree

## **Professional experience**

During the last ten years research activities are focused on studying ecology of macrofungi in Italy, collecting any information useful for data-base regarding check-list and mapping of Basidiomycota. Really, the main interest concerns wood decay fungi (WDF): collecting wild types from Italian woods and isolating mycelium in order to maintain a culture collection of this kind of strains for further investigation. This field has now also a new application as regards to nutraceutical aspects which involves medicinal mushrooms.

Previous researches were carried on in different fields of Mycology: studies on unusual substrata like rock and glass from which fungi with morphological, genetic and metabolic characteristics indicating adaptation were isolated. Strains obtained from various habitats were tested to show the presence of antagonistic metabolic activity toward pathogenic strains (bacteria or fungi).

- 1998-present: Group Leader in Mushroom Ecology and Wood Decay Fungi applications, University of Pavia (Italy), DSTA
- 2000-present: Teaching activities (main courses – University of Pavia): Botany (Biological Science Degree), Applied Mycology (Pharmaceutical Degrees) and Master in Forensic Sciences
- 1981-present: Tutor and co-tutor in many Graduation Thesis (Degree in Biology, in Natural Sciences and Pharmacy, University of Pavia), 5 PhD thesis and a few Master thesis.
- Teacher in National Courses for Inspector Mycologists and Mycological counseling too.
- 1995-1996: Province of Pavia (I): Taught classes on truffles. Responsible to a project to write a mycology guide and an index cards on “poisonous and edible mushrooms” (Savino E. is the author of them).

### **Scientific Publications and Congress or other Oral Communications**

Co-author of 45 scientific publications, and 5 scientific book or book chapters; 4 oral communications in international congress.

Contemporary H-index (Google scholar): 10

5 most relevant to the project papers:

- Rossi P., Di Francia R., Quagliariello V., Savino E., Tralongo P., Randazzo C., Berretta M. (2018).  $\beta$ -glucans from *Grifola frondosa* and *Ganoderma lucidum* in Breast Cancer: an example of Complementary and Integrative Medicine. *Oncotarget*, (in press)
- Gibertoni T.B., Medeiros P.S., Soares A.M.S., Gomes-Silva A.C., Santos P.J.P., Sotão H.M.P., Ferriera L.V., Savino E. (2016). The distribution of polypore fungi in endemism centres in Brazilian Amazonia. *Fungal Ecology*, 20: 1-6.
- Donnini D., Gargano M. L., Savino E., Perini C., Murat C., Di Piazza S., Altobelli E., Salerni E., Rubini A., Rana G. L., Bencivenga M., Venanzoni R., Zambonelli A. (2013). Wild and cultivated mushrooms as a model of sustainable development. *Plant Biosystems*, 147 (1): 1-11.
- Venturella G., E. Altobelli, A. Bernicchia, S. Di Piazza, D. Donnini, M. L. Gargano, S. P. Gorjòn, V. M. Granito, A. Lantieri, D. Lunghini, A. Montemartini, F. Padovan, M. Pavarino, L. Pecoraro, C. Perini, G. Rana, C. Ripa, E. Salerni, E. Savino, P. E. Tomei, A.

Vizzini, A. Zambonelli & M. Zotti, 2011. Fungal biodiversity and in situ conservation in Italy. *Plant Biosystems*, 145 (4): 950-957.

- Varese G. C., P. Angelini, M. Bencivenga, P. Buzzini, D. Donnini, M. L. Gargano, O. Maggi, L. Pecoraro, A. M. Persiani, E. Savino, V. Tigini, B. Turchetti, G. Vannacci, G. Venturella & A. Zambonelli, 2011. Ex situ conservation and exploitation of fungi in Italy. *Plant Biosystems*, 145 (4): 997-1005.

#### Oral communication in International Congresses:

- 9th Int. Med. Mushrooms Conference (IMMC9). Rossi P., Cesaroni V., Corana F., Mannucci B., Kawagishi H., Girometta C., Guglielminetti M.L., Savino E. (2017). Characterization of the Italian samples of *Herichium erinaceus*. Book of Abstracts: 93-94.
- 4th National Conference with International Participation and Youth Scientific Session "Ecological Engineering and Environment Protection" (EEEP'2015), Burgas (BULGARIA). SAVINO E., GIROMETTA C., MITEVA-STALEVA J., KRUMOVA E. (2015). Wood decay macrofungi: strain collection and studies about antioxidant properties.
- 8th Int. Conf. Mush. Biology and Mush. Prod. (ICMBMP8), New Delhi (India): Savino E., Girometta C., Chinaglia S., Guglielminetti M., Rodolfi M., Bernicchia A., Perini C., Salerno E., Picco A.M. (2014). Medicinal mushrooms in Italy and their ex situ conservation through culture collection. *Proceed.*, Vol. 1: 50 – 54.
- 7th Inter. Medicinal Mushroom Conference (IMMC7), Beijing (China): Rossi P., Buonocore D., Altobelli E., Brandalise F., Cesaroni V., Iozzi D., Savino E., Marzatico F. (2013). *Cordyceps sinensis* and *Ganoderma lucidum* dietary supplements: effects on testosterone/cortisol ratio in sports. *Proceed.*, 687-697

#### **Grants**

2017: at the end of a public competition, E.S. is one of the winner of "FONDO PER IL FINANZIAMENTO DELLE ATTIVITA' BASE DI RICERCA" (FFABR) \_MIUR (Italy)\_2017

Ongoing Research Support (E.S. is the project coordinator of the Italian Research Unit)

- 2015-2018: "ITALIAN-BULGARIAN BILATERAL PROJECT FUNGI AS SOURCE OF LIGNOLYTIC ENZYMES. PRODUCTION AND POSSIBLE APPLICATIONS."

Completed Research Support (E.S. is a component of the Research Units in the first and second project and responsible for the third and fourth ones)

- 2012-2014: MIUR and Lombardy Region Project grant for the project entitled "Agromatrici bioattive" (Bioactive Agro matrix)
- 2008-2010: MIUR grant for the project entitled "Study of fungal communities in the context of arctic-alpine vegetation threatened by climatic change in Northern and Central Italy"

- 2007-2009: Responsible for the “Mapping of Lombardy’s macrofungus” Project.
- 2005-2008: PhD project with Brazil entitled “Polyporoid fungi (agaricomycetideae) in the Estação científica Ferreira Penna (State of Pará, Brazilian Amazonia): diversity and ecological aspects.