

Alessio Saviane

Curriculum Vitae

Info

Born
Additional
Address (

Actual employment and current skills

Silkworm and mulberry germplasm preservation, *B. mori* biology and connected technology.

Over the years, I have gained extensive experience about *Morus* spp. cultivation and particularly about *B. mori* breeding both on mulberry leaf and artificial diet. At CREA we developed our own artificial diet recipe suitable for both traditional laboratory activity and germ-free rearing system and I collaborated to all developmental steps. Furthermore I participated to the implementation of a micro-injection system designed to produce transgenic strains. Other fields of interest are microbiology of the silkworm and the selection of strains used to produce polyhybrids. While working with other research groups, I developed also teamwork skills and the capability to work with external groups. I am author and co-author of peer reviewed papers and other scientific texts and manuals.

Education

2011-2013 **PhD, University of Padua; PhD School of Crop Science, Italy.**

Experimental activity was focused on the selection of *B. mori* strains characterized by high nutritional efficiency. Selection was carried out according to nutritional indexes on both artificial diet and mulberry leaves over a period of three years.

1997-2002 **Master degree in biology, University of Padua, Italy.**

Experimental activity was carried out in a laboratory belonging to the genetics department. The title of the thesis was "Effects induced by knock down of the *period* clock gene in *Bombyx mori*".

1998 **Upper secondary school: Scientific Lyceum, Scientific lyceum G. Galilei, Italy.**

Computer Skills

Platforms Windows and Linux.

Tools Office Suite, STATISTICA (StatSoft), SPSS, R, Gimp, L^AT_EX.

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Experience

Vocational experiences

- 2015-present **Temporary position as Technical Operator, CREA, Padua, Italy.**
time Main tasks are the set up of experiments and their statistical analysis, the creation and maintenance of new transgenic lines and the arrangement of experiments concerning the microbiology of silkworm. Reproduction and maintenance of *Morus* spp. and *B. mori* resources are carried out as routine work.
- 2015-2013 **Research fellow, CREA, Padua, Italy.**
Main tasks have been the development of new approaches in the field of sericulture.
- 2013-2010 **Temporary position as Technical Operator, CREA, Padua, Italy.**
Main tasks have been the set up of experiments and their statistical analysis.
- 2010-2008 **Collaboration contract, CREA, Padua, Italy.**
Main tasks have been the development of new technologies aimed at the production of transgenic *B. mori* lines.
- 2007-2006 **Collaboration contract, E. Mach Foundation, Trento, Italy.**
Main tasks have been the maintenance and characterization of small fruit crops in the setting of the Interberry project.
- 2006 **Collaboration contract; January-March, Padua University, Padua, Italy.**
Preparation of *B. mori* samples for the characterization of a clock gene.
- 2005-2004 **Collaboration contract, CREA, formerly CRA-API, Padua, Italy.**
Development of new technologies aimed at the relaunch of sericulture in Italy.
- 2003 **Collaboration contract; November, Padua University, Padua, Italy.**
Preparation of a genetic construct for dsRNAi of a gene expressed in the muscle of *D. melanogaster*.

Teaching experiences

- 2015-2014 **Contract teacher, CIPAT, Padua, Italy.**
Focus of the course was the training and education of farmers interested in sericulture potentially ready to restart with silkworm breeding during 2015 Spring season.
- 2014 **Contract teacher, ECM course, Padua, Italy.**
Course dedicated to veterinarian named "The veterinarian and the silkworm: old and new productions".
- 2014 **Contract teacher, Training course, Palermo, Italy.**
Course on the genetics of the silkworm.

Languages

		Comprehension		Speaking		Writing
		Listening	Reading	Interaction	Production	
Italian	Mother Tongue	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>	<i>C2</i>
German	Advanced	<i>C2</i>	<i>C2</i>	<i>C1</i>	<i>C1</i>	<i>B2</i>
English	Intermediate	<i>B2</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>

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Publications & talks

Journal articles

- 2014 **Saviane A., Toso L., Righi C., Pavanello C., Crivellaro V., Cappellozza S.**, *Bulletin of Insectology*, 67(2):67-174.
Rearing of monovoltine strains of *Bombyx mori* by alternating artificial diet and mulberry leaf accelerates selection for higher food conversion efficiency and silk productivity.
- 2014 **Woltje M., Bobbel M., Rheinecker M., Tettamanti G., Franzetti E., Saviane A., Cappellozza S.**, *Applied microbiology and biotechnology*, 98(10):4571-4580.
Transgenic protein production in silkworm silk glands requires cathepsin and chitinase of *Autographa californica* multicapsid nucleopolyhedrovirus.
- 2010 **Cappellozza S., Saviane A., Tettamanti G., Squadrin M., Vendramin E., Paolucci P., Franzetti E., Squartini A.**, *J. Invertebr. Pathol.*, 106(3):386-393.
Identification of *Enterococcus mundtii* as a pathogenic agent involved in the "flacherie" disease in *Bombyx mori* L. larvae reared on artificial diet.
- 2009 **Cappellozza S., Saviane A.**, *APOidea*, Vol. 6, 45-56.
La dieta artificiale per il baco da seta: metodica per l'allevamento su piccola scala.
- 2007 **Sandrelli F., Cappellozza S., Benna C., Saviane A., Mastella A., Mazzotta G. M., Moreau S., Pegoraro M., Piccin A., Zordan A.M., Cappellozza L., Kyriacou C.P., Costa R.**, *Genetical Research*, 89(2):73-84.
Phenotypic effects induced by knock-down of the period clock gene in *Bombyx mori*.
- 2007 **Cappellozza L., Cappellozza S., Saviane A. and Sbrenna G.**, *Appl. Entomol. Zool.*, 40(3):405-412.
Artificial diet rearing system for the silkworm *Bombyx mori* (Lepidoptera: Bombycidae): effect of vitamin C deprivation on larval growth and cocoon production.

Posters

- 2012 **Cappellozza S., Saviane A., Toso L.**, *XI National Congress of Biotechnology*, Insubria University (Italy), 27th-29th June.
New insights into sericulture.
- 2012 **Woeltje M., Boebel M., Rheinnecker M., Tettamanti G., Franzetti E., Saviane A., Cappellozza S.**, *XI National Congress of Biotechnology*, Insubria University (Italy), 27th-29th June.
Viral cathepsin and chitinase are essential for silk gland infection by AcMNPV in permissive *Bombyx mori* (Lepidoptera, Bombycidae) strains.
- 2012 **Cappellozza S., Saviane A., Toso L.**, *Emerging companies-Meet the innovation*, Rome (Italy), May.
Insect based food production: new technologies.
- 2008 **Cappellozza S., A. Mastella, A. Saviane, E. Schiavon, F. Mutinelli, L. Cappellozza**, *International Conference "Sericulture — From tradition to modern biotechnology"*, Cluj-Napoca (Romania), April.
Sterilisation physical methods and antibacterial addition to artificial diet for *Bombyx mori* L. (Lepidoptera Bombycidae) affect silk production.

Talks

- 2011 **Kyushu University**, Fukuoka (Japan), *February*.
Seminar on microbiology of the silkworm reared on artificial diet.
- 2011 **NIAS**, Tsukuba (Japan), *February*.
Seminar on microbiology of the silkworm reared on artificial diet.

Padova, 5th August 2015

Alessio Saviane

A handwritten signature in black ink, appearing to read 'Alessio Saviane', with a long horizontal flourish extending to the right.