

ALBERTA PINNOLA

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Education

University of Verona, Italy Ph.D., Biotechnology	2011-2014
University of Calabria Master's degree, <i>magna cum laude</i> , Biology	2006-2008
University of Calabria Bachelor's degree, <i>magna cum laude</i> , Biology	2003-2006

Employment and Research Experience

University of Pavia Department of Biology and Biotechnology	<i>Senior Assistant Professor (RTDB), October 2018</i>
University of Verona Department of Biotechnology Project: "Studio dei meccanismi molecolari alla base delle attività delle proteine LHCSR nell'attivazione della dissipazione termica della luce assorbita negli organismi fotosintetici" Advisor: Professor Matteo Ballottari	<i>Postdoctoral Fellow, 2017-Sept 2018</i>
University of Verona Department of Biotechnology Research Fellowship "Valeria & Vincenzo Landi" awarded by the Accademia dei Lincei Project: "Modulazione della resistenza agli stress ambientali e della concentrazione di sostanze aromatiche in <i>Solanum lycopersicum</i> attraverso mutagenesi mediata da CRISPR/CAS9 del gene <i>psbs</i> " Advisor: Professor Luca Dall'Osto	<i>Postdoctoral Fellow, 2016-2017</i>
University of Verona Department of Biotechnology Project: "Isolamento e caratterizzazione funzionale e strutturale della proteina LHCSR, essenziale per il controllo dell'efficienza dell'uso della luce in alghe unicellulari e muschi" Advisor: Professor Matteo Ballottari	<i>Postdoctoral Fellow, 2015-2016</i>
University of Verona Department of Biotechnology Project: "Isolamento e caratterizzazione funzionale e strutturale della proteina LHCSR, essenziale per il controllo dell'efficienza dell'uso della luce in alghe unicellulari e muschi" Advisor: Professor Luca Dall'Osto	<i>Postdoctoral Fellow, 2014-2015</i>
University of Verona Department of Neurological and Visual Sciences Advisor: Professor Mario Buffelli	<i>Scholarship, 2009-2010</i>

International Research Experiences

Institute of Biophysics “Chinese Academy of Sciences”, Beijing, China. Advisors: Professors Mei Li and Wenrui Chang	05/2017-08/2017
University of California, Berkeley Department of Chemistry Advisor: Professor Graham R. Fleming	04/2017-05/2017
Institute of Biophysics “Chinese Academy of Sciences”, Beijing, China. Advisors: Professors Mei Li and Wenrui Chang	04/2016-05/2016
University of South Bohemia Institute of Physics and Biophysics, Centre of Ultrafast spectroscopy Advisor: Professor Tomáš Polívka	03/2015
Institute of Biophysics “Chinese Academy of Sciences”, Beijing, China. Advisors: Professors Zhenfeng Liu and Wenrui Chang	08/2012-12/2012

Honors and Awards

Young Plant Biologists Award <i>awarded by Italian Society of Plant Biology (SIBV)</i>	2018
FESBP Award for young researchers <i>awarded by Federation of European Societies of Plant Biology (FEBS)</i>	2018
CooperInt project funded by University of Verona Project: “Structural analysis of LHCSR protein from the heterologous system <i>N. tabacum</i> ”	2018
CAS President's International Fellowship Initiative (PIFI) <i>awarded by Chinese Academy of Sciences (CAS)</i>	2017
Vincenza and Vittorio Landi fellowship for Post-Doctoral Research <i>awarded by the Accademia dei Lincei</i>	2016
Best Poster Award <i>International Symposium on the Regulation of Photosynthetic Function. Guilin, China</i>	2014

Editorial activity

Guest Editor of Biochemical Journal, Special issue on Photosynthesis	2018
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Membership to Scientific Societies

Italian Society of Plant Biology

Sept 2018

Teaching Experience

2018-2019 Academic Year

Bachelor's Course "Plant Cell Biology" University of Pavia, Department of Biology and Biotechnology

2013-2014 Academic Year

Tutoring activity for Biotechnology students

Practical curricular course on "General and Cellular Biology"

University of Verona

2013-2014 Academic Year

Tutoring activity for Biotechnology students

Practical curricular course on "General and Cellular Biology"

University of Verona

Thesis Co-advisor

Co-supervisor of the Early Stage Researcher Christo Schiphorst. H2020-MSCA-ITN-2015 Network "Solar Energy to Biomass - Optimisation of light energy conversion in plants and microalgae" (675006-SE2B) 2017-present. University of Verona, Department of Biotechnology

2016-2017 Academic Year

"Interazione tra i fotosistemi ed LHCSR nell'alga verde unicellulare *Chlamydomonas reinhardtii*".

Master thesis. Student: Manuel Rigon. University of Verona, Department of Biotechnology

2015-2016 Academic Year

"Proprietà della proteina ricombinante "Light Harvesting Complex Stress Related" espressa in sistema omologo ed eterologo". Master thesis. Student: Alberto Marostica. University of Verona, Department of Biotechnology

Invited presentations at International Conferences

Pinnola A. "Archeology of stress-resistance genes: a novel strategy to improve photosynthesis and productivity in crops"

XV FISV Congress. Sapienza University of Rome, Italy, September 18-21, 2018

Pinnola A. "A molecular switch for regulation of photosynthetic light use efficiency in mosses and green algae, named LHCSR"

Plant Biology Europe (PBE). Copenhagen, Denmark, June 18-21, 2018

Pinnola A. "Binding of the second messenger Zeaxanthin upon high light stress changes the functional properties of the LHCSR1 protein from *Physcomitrella patens*"

4th International Symposium on Plant Signaling and Behavior, Saint Petersburg, Russia, June 19-23, 2016

Pinnola A. "Heterologous expression of moss LHCSR1: the Chlorophyll a-xanthophyll pigment-protein complex catalyzing Non-Photochemical Quenching, in *Nicotiana* sp." Photosynthesis Gordon Research Seminar, Beyond Steady-State Photosynthesis: Emerging Model Organisms and Technologies, Boston, June 27-28, 2015

Pinnola A. "The triggers of excess energy dissipation, PSBS and LHCSR proteins, are localized in distinct thylakoid protein domains in *Physcomitrella patens*" 16th International Congress on Photobiology. Cordoba, Argentina, September 10-12, 2014

Poster presentation

Pinnola A, Cazzaniga S, Alboresi A, Nevo R, Levin-Zaidman S, Reich Z and Bassi R. LHCSR proteins catalyze Excess Energy Dissipation in both Photosystems of *Physcomitrella patens*. Gordon Research Conference, June 28-July 3, 2015: Bentley University, Waltham, MA

Pinnola A, Alboresi A, Bassi R. The triggers of excess energy dissipation, PSBS and LHCSR proteins, are localized in distinct thylakoid protein domains in *Physcomitrella patens*. Proceedings of the 16th International Congress on Photobiology. September 8-12, 2014, Cordoba

Pinnola A, Gecchele E, Capaldi S, Ballottari M, Pezzotti M and Bassi R. Properties of the LHCSR1 protein, essential for excess energy dissipation in *Physcomitrella patens* overexpressed in *Nicotiana tabacum*. Proceedings of the International Symposium on the Regulation of Photosynthetic Function, August 16-20, 2014, Guilin, China

Pinnola A, Gerotto C, Morosinotto T, Dall'Osto L, Bassi R and Alboresi A. A new unrecognized binding site on LHCSR proteins explains Enhanced Zeaxanthin-dependence of excess energy dissipation in *Physcomitrella patens*. St. Louis: Proceedings of 16th International Congress on Photosynthesis Research, August 11-16, 2013, St. Louis, MO, USA

Pinnola A, Gerotto C, Morosinotto T, Dall'Osto L, Bassi R and Alboresi A. A new Binding Site on LHCSR Proteins Enhances Zeaxanthin-dependence of Excess Energy Dissipation in *Physcomitrella patens*. 10th International Plant Molecular Biology Congress, 21-26 October, 2012, Jeju, South Korea