

Salvatore Fusco's *Curriculum Vitae*



1. PERSONAL INFORMATIONS

Name and Surname: **Salvatore Fusco**

Nationality: **Italian**

Date and place of birth: **2nd July 1985, Torre Annunziata (Napoli)**

Workplace: **Department of Biotechnology, University of Verona**

Email: **salvatore.fusco@univr.it; salvatore.fusco@ulb.be; salvatore.fusco@biotecnologitaliani.it**

ORCID unique identified: **orcid.org/0000-0003-2928-3609**

Scopus Author ID: **57222031604**

Web Sites: <https://www.dbt.univr.it/?ent=persona&id=52943>
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<https://orcid.org/my-orcid?orcid=0000-0003-2928-3609>

2. EDUCATION

2015 PhD degree in Biotechnology

Department of Biology, Polytechnic School of Basic Sciences,
University of Napoli Federico II, Italy. Supervisor: Prof. Simonetta Bartolucci.
Thesis title: "CRISPR-mediated antiviral defence in *Sulfolobus*: a versatile tool
and a dangerous weapon for setting up safeguarded industrial bioprocesses"

2011 Master's degree in Biology

Department of General and Applied Biology, University of Napoli Federico II, Italy.
Supervisor: Prof. Patrizia Contursi.
Final mark: 110/110, Summa cum Laude and Honours.
Thesis title: "Elucidation of the virus-host relationship during the carrier stage:
transcriptome analysis of the archaeon *Sulfolobus solfataricus* infected with
the fusellovirus SSV1"

2008 Bachelor's degree in Biology

Department of General and Applied Biology, University of Napoli Federico II, Italy.
Supervisor: Prof. Laura Fucci.
Final mark: 110/110, Summa cum Laude.
Thesis title: "Caratterizzazione del promotore prossimale del gene *plaud* in *P. lividus*"

3. PROFESSIONAL ACCADEMIC EXPERIENCES

- 02.2023-to date** **Associate Professor of Biochemistry (BIOS-07/A)**
Group led at the Biochemistry and Industrial Biotechnology Laboratory
Department of Biotechnology, University of Verona (ITA)
- 02.2020-to date** **Head of the Biochemistry and Industrial Biotechnology Laboratory**
The research group is devoted to exploit the environmental biodiversity (including extreme environments) to isolate and characterise enzymes and microbes, to exploit them for industrial and environmental biotechnological applications.
- 01.2023-to date** **Visiting Professor of Biochemistry (BIOS-07/A)**
Université Libre De Bruxelles
Laboratoire de Production et de Biostimulation des Plantes cultivées (LPBP)
Faculté des Sciences
- 02.2020 – 01.2023** **Senior Assistant Professor (RTDb) of Biochemistry (BIOS-07/A)**
Group led at the Biochemistry and Industrial Biotechnology Laboratory
Department of Biotechnology, University of Verona (ITA)
- 02.2017 – 04.2019** **Principal Investigator**
Department of Biology, Polytechnic School of Basic Sciences,
University of Napoli Federico II, Italy.
Project: “Thermostable Virion-linked Enzymes: robust virus particles as tailorable scaffolds for the immobilization of enzymes”
- 09.2015 – 08.2017** **Postdoc Research Associate**
Division of Industrial Biotechnology
Department of Biology and Biological Engineering
Chalmers University of Technology, (Göteborg, SE)
- 03.2012 – 03.2015** **PhD student in Biotechnology**
Department of Biology, Polytechnic School of Basic Sciences,
University of Napoli Federico II, Italy.
- 10.2013 – 12.2013** **Visiting PhD student**
Danish Archaea Centre, Department of Biology
University of Copenhagen (Copenhagen, DK)
- 09.2010 – 07.2011** **Master student**
University of Napoli Federico II, Italy.
- 09/2009 – 09/2010** **Visiting Master student (Erasmus)**
Danish Archaea Centre, Department of Biology
University of Copenhagen (Copenhagen, DK)

4. TEACHING AND SUPERVISING ACTIVITIES

a) In-class and in-lab teaching activities

2024 –to date	Bachelor's degree course of "Molecular Biophysics" (UniVr) Role of Dr Fusco: Coordinator and main lecturer ECTS: 6 Master's degree: Human Centered Medical System Engineering (L-8)
2020 –to date	Master's degree course of "New frontiers in Biocatalysis" (UniVr) Role of Dr Fusco: Coordinator and main lecturer of the module "Structure and Function of Biomolecules" (ECTS: 3) ECTS: 6 Master's degree: Biotechnology for bioresources and sustainable development (LM-8)
2020 –to date	Master's degree course of "Industrial Enzymology" (UniVr) Role of Dr Fusco: Coordinator and main lecturer ECTS: 6 Master's degree: Biotechnology for bioresources and sustainable development (LM-8)
2021	Course for the Doctoral School of Biotechnology (UniVr) Role of Dr Fusco: Lecturer Seminar: Protein Engineering for Enzyme Optimization
2017 – 2019	Bachelor's degree course of "Cloning and expression of recombinant proteins" (UniNa) Course's main lecturer: Dr Patrizia Contursi Role of Dr Fusco: Lecturer and in-lab coordinator of practical activities Seminar: Discovery and Characterization of a Viral Transcription Regulator
2018	Course for the Doctoral School of Biotechnology (UniNa) Course name: Extremophiles and Extremozymes: perspectives for industrial biotechnology Role of Dr Fusco: Lecturer Seminar: Thermostable virus-like particles as tailorable scaffolds for the immobilization of enzymes
2015	Bachelor's degree course of "Cloning and expression of recombinant proteins" (UniNa) Course's main lecturer: Dr Patrizia Contursi Role of Dr Fusco: Lecturer and in-lab coordinator of practical activities Seminar: Discovery and Characterization of a Viral Transcription Regulator

2013 – 2014 **Practical course within the master's degree course in Biology (UniNa)**
Course name: Applied Biochemistry and Protein Engineering
Course's main lecturer: Professor Simonetta Bartolucci
Role of Dr Fusco: In-lab coordinator of practical activities

b) Supervising and co-supervising activities

2024-to date Supervisor of a PhD student

Supervisor of a PhD student (**Dr Emma Piccoli**) at the Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Italy. PhD course in Biotechnology

2022 -to date Supervisor of a Postdoc Researcher

Supervised a Postdoc Researcher (**Dr Luca Bombardi**, PhD), as group leader of the Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Italy.

2021-2025 Supervisor of a PhD student

Supervisor of a PhD student (**Dr Andrea Salini**) at the Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Italy. PhD course in Biotechnology

2020-to date Supervisor and co-supervisor of master's degree students

Supervisor of 13 master's degree students at the Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Italy. PhD course in Biotechnology

2020 – 2022 Supervisor of a Postdoc Researcher

Supervised a Postdoc Researcher (**Dr Luca Zuliani**, PhD), as group leader of the Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Italy.

2018 – 2019 Supervisor of a Postdoc Researcher

Dr Fusco, as Principal Investigator of the project "TheViriozymes", has mentored a Postdoc Researcher (**Dr Martina Aulitto**, PhD) at Department of Biology, Polytechnic School of Basic Sciences, University of Napoli Federico II, Italy.

2017 – 2019 Tutoring and co-supervisor of Bachelor and Master students

Lab mentor of a PhD student. Moreover, he has mentored a master and two bachelor students, and he was co-relator of their thesis, at Department of Biology, Polytechnic School of Basic Sciences, University of Napoli Federico II, Italy.

2015 – 2017 Tutoring PhD and Master students

Lab mentor of a PhD student and a master student, at Division of Industrial Biotechnology, Department of Biology and Biological Engineering, Chalmers University of Technology, (Göteborg, SE).

2012 – 2015 Tutoring PhD and Master students

Lab mentor of a visiting Danish PhD student. Moreover, he has mentored two Italian PhD students, six master and ten bachelor students. Dr Fusco has also been the co-relator of their thesis, at Department of Biology, Polytechnic School of Basic Sciences, University of Napoli Federico II, Italy.

2013 Tutoring of Master students

Lab mentor of a visiting master student at the Danish Archaea Centre, University of Copenhagen, Copenhagen, DK.

5. SCIENTIFIC PUBLICATIONS, ACTIVITIES AND COLLABORATIONS

ORCID Author ID: 0000-0003-2928-3609

Scopus Author ID: 57222031604

Bibliometric indicators (reference period: 2013-2025) (source: Scopus)

Total number of publications: 35

H-index: 18

Total citations: 727

[Source citations and bibliometric indicators: Scopus](#)

a) Article list

Fusco S., Aulitto M.

Special Issue: "Microbial Enzymes for Biotechnological Applications" (**2025**) International Journal of Molecular Sciences, 26 (5), art. no. 2040, Cited 0 times. DOI: 10.3390/ijms26052040 **CORRESPONDENCE ADDRESS:** S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: salvatore.fusco@univr.it

Orlando M., Marchetti A., Bombardi L., Lotti M., **Fusco S.**, Mangiagalli M.

Polysaccharide degradation in an Antarctic bacterium: Discovery of glycoside hydrolases from remote regions of the sequence space (**2025**) International Journal of Biological Macromolecules, 299, art. no. 140113, Cited 0 times. DOI: 10.1016/j.ijbiomac.2025.140113 **CORRESPONDENCE ADDRESS:** S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, Italy; email: salvatore.fusco@univr.it

Bombardi L., Coltro A., **Fusco S.**

Endo-1,4-β-D-xylanase Assay Using Azo-Xylan and Variants Thereof (**2025**) Bio-protocol, 15 (8), art. no. e5283, Cited 0 times. DOI: 10.21769/BioProtoc.5283 **CORRESPONDENCE ADDRESS:** S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, Italy; email: salvatore.fusco@univr.it

Bombardi L., Salini A., Aulitto M., Zuliani L., Andreolli M., Bordoli P., Coltro A., Vitulo N., Zaccone C., Lampis S., **Fusco S.**

Lignocellulolytic Potential of Microbial Consortia Isolated from a Local Biogas Plant: The Case of Thermostable Xylanases Secreted by Mesophilic Bacteria (2024) International Journal of Molecular Sciences, 25 (2), art. no. 1090, Cited 7 times. DOI: 10.3390/ijms25021090

CORRESPONDENCE ADDRESS: S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: salvatore.fusco@univr.it

Salini A., Zuliani L., Gonnelli P.M., Orlando M., Odoardo A., Ragno D., Aulitto M., Zaccone C., **Fusco S.**

Plastic-Degrading Microbial Consortia from a Wastewater Treatment Plant (2024) International Journal of Molecular Sciences, 25 (23), art. no. 12747, Cited 0 times. DOI: 10.3390/ijms252312747

CORRESPONDENCE ADDRESS: S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: salvatore.fusco@univr.it

Fusco S., Siebers B.

Extreme Biocatalysts: From Basic Research to Biotechnological Applications (2024) International Journal of Molecular Sciences, 25 (12), art. no. 6492, Cited 0 times. DOI: 10.3390/ijms25126492

CORRESPONDENCE ADDRESS: S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: salvatore.fusco@univr.it

Marchetti A., Orlando M., Bombardi L., **Fusco S.,** Mangiagalli M., Lotti M.

Evolutionary history and activity towards oligosaccharides and polysaccharides of GH3 glycosidases from an Antarctic marine bacterium (2024) International Journal of Biological Macromolecules, 275, art. no. 133449, Cited 2 times. DOI: 10.1016/j.ijbiomac.2024.133449

CORRESPONDENCE ADDRESS: M. Mangiagalli; Department of Biotechnology and Biosciences, University of Milano Bicocca, Milano, Piazza della Scienza 2, 20126, Italy; email: marco.mangiagalli@unimib.it

Bombardi L., Orlando M., Aulitto M., **Fusco S.**

Thermophilic Hemicellulases Secreted by Microbial Consortia Selected from an Anaerobic Digester (2024) International Journal of Molecular Sciences, 25 (18), art. no. 9887, Cited 1 times. DOI: 10.3390/ijms25189887 **CORRESPONDENCE ADDRESS:** S. Fusco; Biochemistry and Industrial Biotechnology (BIB) Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: salvatore.fusco@univr.it

Molinari F., Salini A., Vittore A., Santoro O., Izzo L., **Fusco S.,** Pollegioni L., Rosini E.

Bio-based production of cis,cis-muconic acid as platform for a sustainable polymers production (2024) Bioresource Technology, 408, art. no. 131190, Cited 2 times. DOI: 10.1016/j.biortech.2024.131190 **CORRESPONDENCE ADDRESS:** E. Rosini; Department of Biotechnology and Life Sciences, University of Insubria, Varese, Italy; email: elena.rosini@uninsubria.it

Ferremi Leali N., Salvetti E., Luzzini G., Salini A., Slaghenaufi D., **Fusco S.**, Ugliano M., Torriani S., Binati R.L.

Differences in the Volatile Profile of Apple Cider Fermented with *Schizosaccharomyces pombe* and *Schizosaccharomyces japonicus* (2024) Fermentation, 10 (3), art. no. 128, Cited 3 times. DOI: 10.3390/fermentation10030128

CORRESPONDENCE ADDRESS: S. Torriani; Department of Biotechnology, University of Verona, Verona, Strada Le Grazie 15, 37134, Italy; email: sandra.torriani@univr.it

Zhang Z., **Fusco S.**

Editorial: New insights into the genetic mechanisms of thermophilic archaea (2023) Frontiers in Microbiology, 14, art. no. 1185784, Cited 0 times. DOI: 10.3389/fmicb.2023.1185784

CORRESPONDENCE ADDRESS: S. Fusco; Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Verona, Italy; email: **salvatore.fusco@univr.it**

Aulitto M., Martinez-Alvarez L., **Fusco S.**, She Q., Bartolucci S., Peng X., Contursi P.

Genomics, Transcriptomics, and Proteomics of SSV1 and Related Fusellovirus: A Minireview (2022) Viruses, 14 (10), art. no. 2082, Cited 4 times. DOI: 10.3390/v14102082

CORRESPONDENCE ADDRESS: P. Contursi; Dipartimento di Biologia, University of Naples Federico II, Naples, 80126, Italy; email: contursi@unina.it; X. Peng; Archaea Centre, Department of Biology, University of Copenhagen, Copenhagen, DK-1165, Denmark; email: peng@bio.ku.dk

Bosso A., Gaglione R., Di Girolamo R., Veldhuizen E.J.A., García-Vello P., **Fusco S.**, Cafaro V., Monticelli M., Culurciello R., Notomista E., Arciello A., Pizzo E.

Human Cryptic Host Defence Peptide GVF27 Exhibits Anti-Infective Properties against Biofilm Forming Members of the *Burkholderia cepacia* Complex (2022) Pharmaceuticals, 15 (2), art. no. 260, Cited 8 times. DOI: 10.3390/ph15020260

CORRESPONDENCE ADDRESS: E. Pizzo; Department of Biology, University of Naples Federico II, Naples, 80126, Italy; email: elipizzo@unina.it

Ferremi Leali N., Binati R.L., Martelli F., Gatto V., Luzzini G., Salini A., Slaghenaufi D., **Fusco S.**, Ugliano M., Torriani S., Salvetti E.

Reconstruction of Simplified Microbial Consortia to Modulate Sensory Quality of Kombucha Tea (2022) Foods, 11 (19), art. no. 3045, Cited 29 times. DOI: 10.3390/foods11193045

CORRESPONDENCE ADDRESS: S. Torriani; Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: sandra.torriani@univr.it

Botturi A., Battista F., Andreolli M., Faccenda F., **Fusco S.**, Bolzonella D., Lampis S., Frison N. Polyhydroxyalkanoate-rich microbial cells from bio-based volatile fatty acids as potential ingredient for aquaculture feed (2021) Energies, 14 (1), art. no. 38, Cited 9 times. DOI: 10.3390/en14010038

CORRESPONDENCE ADDRESS: N. Frison; Department of Biotechnology, University of Verona, Verona, Strada Le Grazie 15, 37134, Italy; email: nicola.frison@univr.it

Battista F., Zuliani L., Rizzioli F., **Fusco S.**, Bolzonella D.

Biodiesel, biogas and fermentable sugars production from Spent coffee Grounds: A cascade biorefinery approach (2021) Bioresource Technology, 342, art. no. 125952, Cited 45 times. DOI: 10.1016/j.biortech.2021.125952

CORRESPONDENCE ADDRESS: F. Battista; Chemical, Environment and Bioprocesses Engineering Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: federico.battista@univr.it

*Wang R., *Lorantfy B., ***Fusco S.**, Olsson L., Franzén C.J.

Analysis of methods for quantifying yeast cell concentration in complex lignocellulosic fermentation processes (2021) Scientific Reports, 11 (1), art. no. 11293, Cited 17 times. DOI: 10.1038/s41598-021-90703-8 CORRESPONDENCE ADDRESS: C.J. Franzén; Division of Industrial Biotechnology, Department of Biology and Biological Engineering, Chalmers University of Technology, Gothenburg, Sweden; email: franzen@chalmers.se ***Equal contribution**

Zuliani L., Serpico A., De Simone M., Frison N., **Fusco S.**

Biorefinery gets hot: Thermophilic enzymes and microorganisms for second-generation bioethanol production (2021) Processes, 9 (9), art. no. 1583, Cited 26 times. DOI: 10.3390/pr9091583 **CORRESPONDENCE ADDRESS:** S. Fusco; Biochemistry and Industrial Biotechnology Laboratory, Department of Biotechnology, University of Verona, Verona, 37134, Italy; email: **salvatore.fusco@univr.it**

***Fusco S.**, *Aulitto M., Iacobucci I., Crocamo G., Pucci P., Bartolucci S., Monti M., Contursi P. The interaction between the F55 virus-encoded transcription regulator and the RadA host recombinase reveals a common strategy in Archaea and Bacteria to sense the UV-induced damage to the host DNA (2020) Biochimica et Biophysica Acta - Gene Regulatory Mechanisms, 1863 (5), art. no. 194493, Cited 16 times. DOI: 10.1016/j.bbagr.2020.194493 CORRESPONDENCE ADDRESS: M. Monti; Department of Chemical Science, Complesso Universitario Monte Sant'Angelo, Università degli Studi di Napoli - Federico II, Italy; email: montimar@unina.it ***Equal contribution**

*Aulitto M., ***Fusco S.**, Nickel D.B., Bartolucci S., Contursi P., Franzén C.J.

Seed culture pre-adaptation of *Bacillus coagulans* MA-13 improves lactic acid production in simultaneous saccharification and fermentation (2019) Biotechnology for Biofuels, 12 (1), art. no. 45, Cited 45 times. DOI: 10.1186/s13068-019-1382-2 **CORRESPONDENCE ADDRESS:** S. Fusco; Department of Biology, University of Naples Federico II, Naples, 80126, Italy; email: **salvatore.fusco@unina.it** ***Equal contribution**

Aulitto M., **Fusco S.**, Limauro D., Fiorentino G., Bartolucci S., Contursi P.

Galactomannan degradation by thermophilic enzymes: a hot topic for biotechnological applications (2019) World Journal of Microbiology and Biotechnology, 35 (2), art. no. 32, Cited 31 times. DOI: 10.1007/s11274-019-2591-3 CORRESPONDENCE ADDRESS: P. Contursi; Department of Biology, University of Naples Federico II, Naples, via Cinthia, 80126, Italy; email: contursi@unina.it

*Aulitto M., ***Fusco S.**, Franzén C.J., Strazzulli A., Moracci M., Bartolucci S., Contursi P.
Draft genome sequence of *Bacillus coagulans* MA-13, a thermophilic lactic acid producer from lignocellulose (2019) Microbiology Resource Announcements, 8 (23), art. no. e0034119, Cited 14 times. DOI: 10.1128/MRA.00341-19 CORRESPONDENCE ADDRESS: P. Contursi; Department of Biology, University of Naples Federico II, Naples, Italy; email: contursi@unina.it ***Equal contribution**

Roscetto E., Contursi P., Vollaro A., **Fusco S.**, Notomista E., Catania M.R.
Antifungal and anti-biofilm activity of the first cryptic antimicrobial peptide from an archaeal protein against *Candida* spp. clinical isolates (2018) Scientific Reports, 8 (1), art. no. 17570, Cited 64 times. DOI: 10.1038/s41598-018-35530-0 CORRESPONDENCE ADDRESS: P. Contursi; Section of Clinical Microbiology, Department of Molecular Medicine and Medical Biotechnology, University of Naples Federico II, Naples, Via Pansini 5, 80131, Italy; email: contursi@unina.it

Aulitto M., **Fusco S.**, Fiorentino G., Limauro D., Pedone E., Bartolucci S., Contursi P.
Thermus thermophilus as source of thermozymes for biotechnological applications: Homologous expression and biochemical characterization of an α -galactosidase (2017) Microbial Cell Factories, 16 (1), art. no. 28, Cited 45 times. DOI: 10.1186/s12934-017-0638-4 CORRESPONDENCE ADDRESS: P. Contursi; Università degli Studi di Napoli Federico II, Complesso Universitario Monte S. Angelo, Dipartimento di Biologia, Naples, Via Cinthia, 80126, Italy; email: contursi@unina.it

Strazzulli A., **Fusco S.**, Cobucci-Ponzano B., Moracci M., Contursi P.
Metagenomics of microbial and viral life in terrestrial geothermal environments (2017) Reviews in Environmental Science and Biotechnology, 16 (3), pp. 425 - 454, Cited 29 times. DOI: 10.1007/s11157-017-9435-0 CORRESPONDENCE ADDRESS: P. Contursi; Dipartimento di Biologia, Università degli Studi di Napoli Federico II, Naples, Complesso Universitario Monte S. Angelo, Via Cinthia, 80126, Italy; email: contursi@unina.it

*Aulitto M., ***Fusco S.**, Bartolucci S., Franzén C.J., Contursi P.
Bacillus coagulans MA-13: A promising thermophilic and cellulolytic strain for the production of lactic acid from lignocellulosic hydrolysate (2017) Biotechnology for Biofuels, 10 (1), art. no. 210, Cited 66 times. DOI: 10.1186/s13068-017-0896-8 CORRESPONDENCE ADDRESS: C.J. Franzén; Division of Industrial Biotechnology, Department of Biology and Biological Engineering, Chalmers University of Technology, Gothenburg, 412 96, Sweden; email: franzen@chalmers.se ***Equal contribution**

*Gaglione R., *Pirone L., *Farina B., ***Fusco S.**, Smaldone G., Aulitto M., Dell'Olmo E., Roscetto E., Del Gatto A., Fattorusso R., Notomista E., Zaccaro L., Arciello A., Pedone E., Contursi P.
Insights into the anticancer properties of the first antimicrobial peptide from Archaea (2017) Biochimica et Biophysica Acta - General Subjects, 1861 (9), pp. 2155 - 2164, Cited 35 times. DOI: 10.1016/j.bbagen.2017.06.009 CORRESPONDENCE ADDRESS: A. Arciello; Department of Chemical Sciences, University of Naples Federico II, Naples, 80126, Italy; email: anarciel@unina.it ***Equal contribution**

Fusco S., Liguori R., Limauro D., Bartolucci S., She Q., Contursi P.

Transcriptome analysis of *Sulfolobus solfataricus* infected with two related fuselloviruses reveals novel insights into the regulation of CRISPR-Cas system (2015) *Biochimie*, 118, pp. 322 - 332, Cited 32 times. DOI: 10.1016/j.biochi.2015.04.006 CORRESPONDENCE ADDRESS: Q. She; Danish Archaea Centre, Department of Biology, University of Copenhagen, Copenhagen N, Ole Maaløes Vej 5, DK-2200, Denmark; email: qunxin@bio.ku.dk

Notomista E., Falanga A., **Fusco S.**, Pirone L., Zanfardino A., Galdiero S., Varcamonti M., Pedone E., Contursi P.

The identification of a novel *Sulfolobus islandicus* CAMP-like peptide points to archaeal microorganisms as cell factories for the production of antimicrobial molecules (2015) *Microbial Cell Factories*, 14 (1), art. no. 126, Cited 31 times. DOI: 10.1186/s12934-015-0302-9 CORRESPONDENCE ADDRESS: E. Pedone; Istituto di Biostrutture Bioimmagini, CNR, Naples, 80134, Italy; email: empedone@unina.it

Fusco S., She Q., Fiorentino G., Bartolucci S., Contursi P.

Unravelling the role of the F55 regulator in the transition from lysogeny to UV induction of *Sulfolobus* spindle-shaped virus 1 (2015) *Journal of Virology*, 89 (12), pp. 6453 - 6461, Cited 22 times. DOI: 10.1128/JVI.00363-15

Fusco S., Aulitto M., Bartolucci S., Contursi P.

A standardized protocol for the UV induction of *Sulfolobus* spindle-shaped virus 1 (2015) *Extremophiles*, 19 (2), pp. 539 - 546, Cited 14 times. DOI: 10.1007/s00792-014-0717-y

Contursi P., Farina B., Pirone L., **Fusco S.**, Russo L., Bartolucci S., Fattorusso R., Pedone E. Structural and functional studies of Stf76 from the *Sulfolobus islandicus* plasmid-virus pSSVx: A novel peculiar member of the winged helix-turn-helix transcription factor family (2014) *Nucleic Acids Research*, 42 (9), pp. 5993 - 6011, Cited 24 times. DOI: 10.1093/nar/gku215 CORRESPONDENCE ADDRESS: E. Pedone; Interuniversity Centre for Research on Bioactive Peptides (CIRPEB), University of Naples Federico II, 80134 Naples, Via Mezzocannone 16, Italy; email: empedone@unina.it

Contursi P., **Fusco S.**, Cannio R., She Q.

Molecular biology of fuselloviruses and their satellites (2014) *Extremophiles*, 18 (3), pp. 473 - 489, Cited 28 times. DOI: 10.1007/s00792-014-0634-0 CORRESPONDENCE ADDRESS: P. Contursi; Dipartimento di Biologia, Università degli Studi di Napoli Federico II, Complesso Universitario Monte S. Angelo, Naples, Via Cinthia, Italy; email: contursi@unina.it

Fusco S., She Q., Bartolucci S., Contursi P.

Tlys, a newly identified *Sulfolobus* spindle-shaped virus 1 transcript expressed in the lysogenic state, encodes a DNA-binding protein interacting at the promoters of the early genes (2013) *Journal of Virology*, 87 (10), pp. 5926 - 5936, Cited 24 times. DOI: 10.1128/JVI.00458-13 CORRESPONDENCE ADDRESS: P. Contursi; Dipartimento di Biologia, Università degli Studi di Napoli Federico II, Complesso Universitario Monte S. Angelo, Naples, Italy; email: contursi@unina.it

Contursi P., **Fusco S.**, Limauro D., Fiorentino G.

Host and viral transcriptional regulators in *Sulfolobus*: An overview (2013) *Extremophiles*, 17 (6), pp. 881 - 895, Cited 23 times. DOI: 10.1007/s00792-013-0586-9 CORRESPONDENCE ADDRESS: G. Fiorentino; Dipartimento di Biologia, Università di Napoli Federico II, 80126 Napoli, via Cinthia, Edificio 7, Italy; email: fiogabri@unina.it

b1) Invited and/or selected speaker at national and international conferences

1. **Fusco S.**, “Bioprospecting in Industrial Facilities: A Source of Enzymes for Biotechnological Applications”. Summer school exploitation of biological waste for novel added value products (**Invited speaker**). Naples (Italy), 14th - 17th July 2025. (**Invited speaker**).
2. **Fusco S.**, “Enzymes from Industrial Processes: Sources and Applications”. 7th International Summer School on Circular Bioeconomy and Sustainable Development (**Invited speaker**). Thessaloniki (Greece), 27th June - 4th July 2025.
3. **Fusco S.**, “Transizione ecologica e valorizzazione di scarti e sottoprodotti delle filiere agroalimentari”. Workshop "Innovazioni tecnologiche e organizzative per la transizione agroecologica dei sistemi agroalimentari locali verso un modello di economia circolare e solidale - InnoAgroECoS" (Horizon Europe project Seeds S27) (**Invited speaker**). Bari & Gravina (Italy), 14th-15th June 2024.
4. **Fusco S.**, “Deconstruction of untreated lignocellulose by mesophilic and thermophilic microbial consortia from a local biogas plant”. European Federation of Biotechnology (EFB), Biotechnology for a circular bioeconomy conference held online on 28th-29th March 2023 * **Selected flash presentation**.
5. **Fusco S.**, “Mesophilic and thermophilic microbial consortia isolated from a biogas plant secrete thermostable xylanases”. Trends in Biotechnology: the SIB group perspectives. Napoli (Italy), 23th-24th June 2022. **Selected oral presentation**.
6. **Fusco S.**, “Cascade biotechnological production of chemical building blocks from municipal wastewater-derived cellulose”. European Federation of Biotechnology (EFB2021) (**Selected flash presentation**). Virtual Conference, 10th-14th May 2021.
7. **Fusco S.**, “Robust virus particles as suitable scaffolds for the immobilisation of enzymes for biorefinery applications”. 12th International Congress on Extremophiles -Extremophiles2018- (**Selected oral presentation**). Ischia (Italy), 16th-20th September 2018.
8. **Fusco S.**, “Provirus integration leads to CRISPR-mediated autoimmunity in *Sulfolobus solfataricus*”. 59th Congress of the Italian Society of Biochemistry and Molecular Biology (SIB 2017) (**Selected oral presentation**). Caserta (Italy), 20th-22th September 2017.
9. **Fusco S.**, “Structure, function and unexplored properties of fuselloviruses-encoded transcription factors”. Molecular Biology of *Archaea* 4th conference (**Invited speaker**). Institute Pasteur, Paris (France), 19th-22th May 2014.

b2) Committee Member & Chairperson at national and international conferences

1. **Summer school: Exploitation of biological waste for novel added value products** Naples (Italy), 14th - 17th July **2025**. Chairs: Salvatore Fusco (IT) Marco Moracci (IT).
2. **The 48th Federation of European Biochemical Societies (FEBS) Congress 2024**. Milan (Italy), 29th June – 3rd July **2024**. Symposia: “Towards sustainable use of natural and renewable resources”. Chairs: Salvatore Fusco (IT) Michael O’Donohue (FR).

b3) Other national and international conference communications

1. *Ballabio F., Piccoli E., Odoardo A., Riina F., Fusco S., Ragno D & Giorgino T. “Biocat4Biopol: AI assisted enzymatic engineering for next gen bioplastics”. CECAM - Computations meet Experiments to Advance the Enzymatic Depolymerization of Plastics One Atom at a Time. Trieste (Italy), 5th-8rd May **2025**. Book of abstracts and poster section. *Presenting author.
2. *Bombardi L., Gulotta L., Sabellico V. & Fusco S. “Enzymatic hydrolysis of agro-industrial waste to produce bioactive molecules”. Forum Nazionale della Biodiversità. Milano (Italy), 19th-23rd May **2025**. Book of abstracts and poster section. *Presenting author.
3. *Bombardi L., Aulitto M., Orlando M. & Fusco S. “Thermostable hemicellulolytic enzymes secreted by microbial consortia isolated from a local anaerobic digester”. 5th NextGenBiocat symposium, 8th-9th May **2025**. Book of abstracts and poster section. *Presenting author.
4. *Orlando M., Marchetti A., Mangiagalli M., Bombardi L., Fusco S. & Lotti M. “In silico tools to mine glycoside hydrolase enzymes from nature”. European RosettaCon 2024. Copenhagen (Denmark), 11th-13th November **2024**. Book of abstracts and poster section. *Presenting author.
5. *Guglielmi G., Salini A., Cicolin G., Ragno D., Giorgino T & Fusco S. “Discovery and Engineering of Improved Biocatalysts for the Synthesis of Biodegradable Plastic Copolymers (BioCat4BioPol)”. International Forum on Industrial Biotechnology and Bioeconomy (IFIB 2024). Bologna (Italy), 3rd-4th October **2024**. Poster section. *Presenting author.
6. *Bombardi L., Manzini S., Gulotta L & Fusco S. “Enzymatic hydrolysis of agro-industrial solid leftovers to produce bioactive molecules”. 48th Federation of European Biochemical Societies (FEBS) Congress 2024. Milan (Italy), 29th June – 3rd July **2024**. Book of abstracts and poster section. *Presenting author.
7. *Guglielmi G., Salini A., Ragno D., Giorgino T & Fusco S. “Discovery and Engineering of Improved Biocatalysts for the Synthesis of Biodegradable Plastic Copolymers (BioCat4BioPol)”. 48th Federation of European Biochemical Societies (FEBS) Congress 2024. Milan (Italy), 29th June – 3rd July **2024**. Book of abstracts and poster section. *Presenting author. (**Selected flash presentation**).

8. *Molinari F., Salini A., Rosini E., **Fusco S.** & Pollegioni L. "Sustainable production of cis,cis-muconic acid production from vanillin by an engineered E. coli strain". 48th Federation of European Biochemical Societies (FEBS) Congress 2024. Milan (Italy), 29th June – 3rd July **2024**. Book of abstracts and poster section. *Presenting author. (**Selected oral presentation**).
9. *Marchetti A., Orlando M., Bombardi L., Christakis C., Tsopanakis V., Sarris P., Pavlidis I. V., **Fusco S.**, Mangiagalli M. & Lotti M. "Extreme marine and coastal environments as a source of glycoside hydrolases involved in the degradation of oligosaccharides and polysaccharides". 48th Federation of European Biochemical Societies (FEBS) Congress 2024. Milan (Italy), 29th June – 3rd July **2024**. Book of abstracts and poster section. *Presenting author.
10. *Salini A., Monarca V., Gonnelli P.M., Soldà M. & **Fusco S.** "Identification of plasticactive enzymes via an activity and metagenomic based approach". 48th Federation of European Biochemical Societies (FEBS) Congress 2024. Milan (Italy), 29th June – 3rd July **2024**. Book of abstracts and poster section. *Presenting author.
11. *Bombardi L., Manzini S., Gulotta L. & **Fusco S.** "Enzymatic hydrolysis of agro-industrial waste to produce phyto-stimulants and antimicrobials". Forum Nazionale della Biodiversità. Palermo (Italy), 20th-21th May **2023**. Book of abstracts and poster section. *Presenting author.
12. *Salini A., Soldà M. & **Fusco S.** "Exploring the plastic-degrading capability of wastewater treatment plant enriched consortia". ESSIB 2023 - 5th European Summer School on Industrial Biotechnology - Functional metagenomics: from nature to biochemical functions. Hamburg, 3rd-6th of July **2023**. Book of abstracts and poster section. *Presenting author.
13. *Bombardi L., Salini A., Monarca V. & **Fusco S.** "Enzymatic hydrolysis of agro-industrial solid leftovers to produce phyto-stimulants and antimicrobials". 4th Memorial Workshop Maria Ciaramella. Naples (Italy), 16th-17th November **2023**. Book of abstracts and poster section. *Presenting author.
14. *Salini A., Monarca V., Soldà M. & **Fusco S.** "An activity- and metagenomic-based approach to identifying novel plastic-degrading enzymes". 4th Memorial Workshop Maria Ciaramella. Napples (Italy), 16th-17th November **2023**. Book of abstracts and poster section. *Presenting author.
15. Bombardi L., Salini A., Bordoli P., Coltro A., Bordoli P., Gonnelli P.M., Zuliani L., Monarca V., Soldà M., Zuliani L. & **Fusco S.** "Industrial plants as sources of thermostable industrially relevant hydrolases". International Forum on Industrial Biotechnology and Bioeconomy, Florence (Italy), 28th-29th September **2023**. Book of abstracts and poster section. **Presenting author.**
16. Bombardi L., Salini A., Bordoli P., Coltro A., Bordoli P., Gonnelli P.M., Zuliani L., Monarca V., Soldà M., Zuliani L. & **Fusco S.** "Industrial plants as sources of thermostable industrially relevant hydrolases". 62nd Congress of the Italian Society of Biochemistry and Molecular Biology (SIB 2023), Florence (Italy), 7th-9th September **2023**. Book of abstracts and poster section. **Presenting author.**

17. *Marchetti A., Bombardi L., Orlando M., **Fusco S.**, Mangiagalli M. & Lotti M. "Antarctic β -glucosidases involved in marine polysaccharides degradation". Novel Enzymes 2023, Graifsward (Germany). 28th-29th March **2023**. *Presenting author.
18. *Salini A., Soldà M. Fontana C., Gonnelli P.M., Zuliani L., & **Fusco S.** "Preliminary characterization of the plastic-degrading potential of environmental consortia". European Federation of Biotechnology (EFB), Biotechnology for a circular bioeconomy conference held online on 28th-29th March **2023**. *Selected oral presentation.
19. *Bombardi L., Salini A., Coltro A., Bordoli P., Zuliani L., & **Fusco S.** "Mesophilic and thermophilic microbial consortia from a local biogas plant secrete highly stable xylanases". European Federation of Biotechnology (EFB), Biotechnology for a circular bioeconomy conference held online on 28th-29th March **2023**. *Selected oral presentation.
20. Salini A., Zuliani L., Bordoli P. & **Fusco S.** "Thermostable xylanases from a biogas plant microbiota". 13th International Congress on Extremophiles -Extremophiles2022-, book of abstracts and poster section. Loutraki (Greece), 18th-22th September **2022**. **Presenting author**.
21. *Salini A., Zuliani L., Gonnelli P.M. Soldà M., Zacccone C. & **Fusco S.** "Hunting for thermophilic plastic-active enzymes in a local wastewater treatment plant". 13th International Congress on Extremophiles -Extremophiles2022-, book of abstracts and poster section. Loutraki (Greece), 18th-22th September **2022**. *Presenting author.
22. *Salini A., Zuliani L., Gonnelli P.M. Soldà M., Fontana C., Zacccone C. & **Fusco S.*** "Chasing plastizymes from the microbiota of a wastewater treatment plant". Trends in Biotechnology: the SIB group perspectives. Napoli (Italy), 23th-24th June **2022**. *Selected oral presentation.
23. *Salini A., Zuliani L., Gonnelli P.M. Soldà M., Fontana C., Zacccone C. & **Fusco S.*** "Investigating the plastic-degrading potential of a wastewater treatment plant microbiota". European Federation of Biotechnology (EFB2022). Virtual Conference, 10th-13th May **2022**. *Selected oral presentation.
24. *Gonnelli P.M., Cannella D., Zuliani L. & **Fusco S.** "Chasing for photo-inducible plastizymes from wastewater treatment plant sludge". European Federation of Biotechnology (EFB2022). Virtual Conference, 10th-13th May **2022**. *Selected flash presentation.
25. Gatto V., Salvetti E., Ferremi Leali N, **Fusco S.**, & Torriani S. "Microbial community composition of an artisanal scale Kombucha tea fermentation and its impact on SCOBY production". Microbial Diversity 2021. Virtual Conference, 14th-15th December **2021**.
26. Zuliani L., Ambrosi M., Bonetti N., Frison N. & **Fusco S.** "Hunting for novel lignocellulolytic microorganisms and enzymes from a local biogas plant". European Federation of Biotechnology (EFB 2021). Virtual Conference, 10th-14th May **2021**.
27. Frison N., Botturi A., Battista F., Andreolli M., Faccenda F., **Fusco S.**, Lampis S. & Bolzonella D.

“Polyhydroxyalkanoated-rich microbial cells from bio-based volatile fatty acids as potential ingredient for aquaculture feed”. European Federation of Biotechnology (EFB 2021). Virtual Conference, 10th-14th May **2021**.

28. Battista F., Zuliani L., Rizzioli F., **Fusco S.** & Bolzonella D. “The sequential biorefinery approach for biodiesel and glucose production from Spent Coffee Grounds”. THESSALONIKI 2021. Virtual Conference, 23th-26th June **2021**.
29. Zuliani L., Ambrosi M., Bonetti N., Frison N. & **Fusco S.** “Lignocellulolytic enzymes secreted by mesophilic and thermophilic microbial consortia enriched on mushrooms litter”. 61th Congress of the Italian Society of Biochemistry and Molecular Biology (SIB 2021). Virtual Conference, 23th-24th September **2021**.
30. Zuliani L., Ambrosi M., Bonetti N., Frison N. & **Fusco S.** “Untreated lignocellulosic feedstock fermentation by locally sourced enriched thermophilic consortia”. International Forum on Industrial Biotechnology and Bioeconomy (IFIB 2021). Trento (Italy), 30 September – 1 October **2021**.
31. **Fusco S.**, Aulitto M., Iacobucci I., Bartolucci S., Pucci P., Monti M. & Contursi P. “Unravelling the Crosstalk Between the SSV1 Carrier State Regulator and the *Sulfolobus solfataricus* DNA Damage Surveillance Machinery”. ASM Microbe 2019. San Francisco (CA, USA), 20th-25th June **2019**. Presenting author.
32. Arciello A., Aulitto M., Bartolucci S., Del Gatto A., Dell'Olmo E., Falanga A., Farina B., Fattorusso R., **Fusco S.**, Gaglione R., Galdiero S., Pirone L., Roscetto E., Vollaro A., Smaldone G., Zaccaro L., Zanfardino A., Catania M.R., Varcamonti M., Notomista E., Pedone E. & Contursi P. “VLL-28 is a bioactive peptide from the *Archaea* kingdom showing antimicrobial, antifungal and antitumor activities”. 12th International Congress on Extremophiles -Extremophiles 2018. Ischia (Italy), 16th-20th September **2018**.
33. Aulitto M., **Fusco S.**, Bartolucci S. & Contursi P. “Thermophilic virus particles as scaffolds for enzymes immobilisation: the case of the *Sulfolobus* spindle-shaped virus 1”. NanoInnovation 2018, book of abstracts and poster section. Rome (Italy), 11th-14th September **2018**.
34. **Fusco S.**, Olsson H. & Carl Johan Franzén. “CRISPR/Cas9-assisted protein engineering”. Cell Symposia - CRISPR: From Biology to Technology and Novel Therapeutics, book of abstracts and poster section. Sitges (Spain), 29th October- 1st November **2017**. Presenting author.
35. **Fusco S.**, Aulitto M., She Q., Bartolucci S. & Contursi P. “The archaeal lysogeny regulator F55: from discovery to *in vitro* and *in vivo* characterizations”. 59^o Congresso Società Italiana di Biochimica e Biologia Molecolare, book of abstracts and poster section. Caserta (Italy), 20th-22th September **2017**. Presenting author.
36. Franzén C.J., Wang R., Nickel D., Olsson L., **Fusco S.**, Aulitto M., Bartolucci S. & Contursi P. “High gravity lignocellulose bioprocess development for ethanol and lactic acid production by multi-feed simultaneous saccharification and fermentation”. Recent Advances in Fermentation

Technology, book of abstracts and poster section. Bonita Springs (FL, USA), 29th October – 1st November **2017**.

37. Wang R., **Fusco S.**, Lorantfy B., Olsson L. & Franzén CJ. “Which methods for viable yeast cell quantification can be used in lignocellulosic fermentation processes?”. European Symposium on Biochemical Engineering Sciences (ESBES) 2016, book of abstracts and poster section. Dublin (Ireland), 11th-14th September **2016**.
38. Aulitto M., **Fusco S.**, Fusco FA., Limauro D., Bartolucci S. & Contursi P. “A thermophilic *Bacillus coagulans* strain isolated from beans-waste is promising for cellulosic biomass saccharification”. XXI IUPAC CHEMRAWN Conference, book of abstracts and poster section. Rome (Italy), 6th-8th April **2016**.
39. **Fusco S.**, Notomista E., Arciello A., Falanga A., Gaglione R., Galdiero S., Pedone E., Pirone L., Varcamonti M., Zanfardino A. & Contursi P. “A powerful *in silico* approach allowed the identification of a new antimicrobial peptide from the third domain of life”. Proteine2016, book of abstracts and poster section. Bologna (Italy), 30th March – 1st April **2016**. Presenting author.
40. **Fusco S.**, She Q., Bartolucci S. & Contursi P. “Exploring the lysogenic state of *Sulfolobus* spindle-shaped virus 1: the regulative role of the Ribbon-Helix-Helix viral protein F55”. 10th International Congress on Extremophiles -Extremophiles2014-, book of abstracts and poster section. Saint Petersburg (Russia), 7th-11th September **2014**. Presenting author.
41. Pirone L., Contursi P., Zanfardino A., **Fusco S.**, Varcamonti M., Notomista E., Falanga A., Galdiero S. & Pedone E. “The identification and characterization of a novel CAMP from Stf76, a *Sulfolobus islandicus* plasmid-virus pSSVx transcription factor”. 14th Naples Workshop on Bioactive Peptides: The renaissance era of peptides in drug discovery, book of abstracts and poster section. Napoli (Italy), 12th-14th June **2014**.
42. Pirone L., Contursi P., Farina B., **Fusco S.**, Russo L., Bartolucci S., Fattorusso R. & Pedone E. “structural and functional studies of stf76 from the *Sulfolobus islandicus* plasmid–virus pssvx: a novel peculiar member of the winged helix–turn–helix transcription factor family”. Proteine2014, book of abstracts and poster section. Padova (Italy) 31st March – 1st April **2014**.
43. **Fusco S.**, She Q., Bartolucci S. & Contursi P. “F55: a putative lysogeny regulator of the fusellovirus SSV1”. CMC Symposium 2013, book of abstracts. Copenhagen (Denmark), 4th October **2013**. Presenting author.
44. **Fusco S.**, She Q., Bartolucci S. & Contursi P. “p55, a newly identified Ribbon-Helix-Helix transcription factor encoded by SSV1: elucidation of archaeal host-virus interactions”. Proteine2012, book of abstracts and poster section. Chieti (Italy), 25th-26th September **2012**. Presenting author.

c) National and international collaborations: organization, management, and coordination of (or participation in) national and international research groups

2023 –to date	Collaboration with Prof. Salvatore Adinolfi at the University of Torino (Italy).
2022 –to date	Collaboration with Prof. Loredano Pollegioni at the University of Insubria (Varese, Italy).
2022 –to date	Collaboration with Dr. Elena Rosini at the University of Insubria (Varese, Italy).
2022 –to date	Collaboration with Prof. Marina Lotti at the University of Milano, Bicocca (Italy).
2022 –to date	Collaboration with Dr. Marco Mangiagalli at the University of Milano, Bicocca (Italy).
2021 –to date	Collaboration with Dr. Toni Giorgino at the Institute of Biophysics - National Research Council - (IBF-CNR) (Italy).
2021 –to date	Collaboration with Dr. Daniele Ragno at the University of Ferrara (Italy).
2020 –to date	Collaboration with Prof. David Cannella at the PhotoBioCatalysis Unit (Bio-Cat) (Université Libre de Bruxelles – ULB) (Belgium).
2020 –to date	Collaboration with Prof. David Bolzonella , Prof. Nicola Frison , and Dr. Federico Battista at the Laboratory of Environmental and Bioprocess Chemical Engineering, Department of Biotechnology, University of Verona (Italy).
2020 –to date	Collaboration with Prof. Silvia Lampis at the Laboratory of Microbial Biotechnologies and Environmental Microbiology, Department of Biotechnology, University of Verona (Italy).
2020 –to date	Collaboration with Prof. Sandra Torriani at the Laboratory of Food Microbiology, Department of Biotechnology, University of Verona (Italy).
2020 –to date	Collaboration with Prof. Claudio Zaccone at the Laboratory of Soil and Biomass Chemistry, Department of Biotechnology, University of Verona (Italy).
2017 –to date	Collaboration with Prof. Marco Moracci , at the laboratories of the Department of Biology of the University of Naples Federico II (Italy).
2015 –to date	Collaboration with Prof. Lisbeth Olsson and Prof. Carl Johan Franzén at the Division of Industrial Biotechnology of the Department of Biology and Biological Engineering (Chalmers University of Technology, Göteborg,

Sweden).

- 2009 –to date** Collaboration with the research group of the Danish Archaea Center led by **Prof. Qunxin She** at the Department of Biology (University of Copenhagen, Denmark).
- 2009 –to date** Collaboration with **Prof. Simonetta Bartolucci** and **Prof. Patrizia Contursi**, at the laboratories of the Department of Biology of the University of Naples Federico II (Italy).

6. ABILITY TO ATTRACT FUNDING

- 2023 – to date** **Competitive Research Grant**
Project: Discovery and Engineering of Improved Biocatalysts for the Synthesis of Biodegradable Plastic Copolymers (BioCat4BioPol)
Role of Prof. Fusco: **Principal Investigator and Scientific Responsible**
Budget allocated to Dr Fusco's unit activities: **190,000 EUR**
Funding body: Ministry of University and Research (MUR)
- 2022 – to date** **Competitive Research Grant**
Project: National Biodiversity Future Center (PNRR 2022-2025)
Role of Prof. Fusco: **Research Unit Leader**
Budget allocated to Dr Fusco's unit activities: **170,000 EUR**
Funding body: Ministry of University and Research (MUR)
- 2020 – 2022** **Starting Grant**
Project: Department of Excellence 2018/2022
Location: Department of Biotechnology, University of Verona
Financing amount: **75,000 EUR**
Funding body: Ministry of University and Research (MUR)
- 2017 – 2019** **Competitive Young Researchers Grant**
Department of Biology, University of Naples Federico II (ITA) Project: Thermostable Virion-linked Enzymes: robust virus particles as tailorable scaffolds for the immobilization of enzymes
Role of Dr. Fusco: **Principal Investigator and Scientific Responsible**
Project acronym: TheViriozymes
Amount of funding: **100,000 EUR**
Financing bodies: Compagnia di San Paolo and University of Naples Federico II

7. AWARDS

- 2014** **FEMS scholarship**
FEMS Young Scientist Meeting Grant 2014
10th International Congress on Extremophiles -Extremophiles2014-
- 2009** **Erasmus scholarship**
Danish Archaea Center
Department of Biology University of Copenhagen (Copenhagen, DK)

8. AFFILIATION WITH SCIENTIFIC SOCIETIES

- 2023 – to date** **Bord of Directors the Italian Association of Biotechnologists (Biotechnologi Italiani)**
- 2022 – to date** **Member of European Society of Applied Biocatalysis (ESAB)**
- 2022 – to date** **Member of The International Society for Extremophiles (ISE)**
- 2021 – to date** **Member of the Italian Association of Biotechnologists (Biotechnologi Italiani)**
- 2014 – to date** **Member of the Italian Society of Biochemistry and Molecular Biology (SIB)**

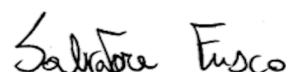
9. PARTICIPATION TO EDITORIAL AND EVALUATION COMMITTEES

- 2022 – to date** **Member of the Editorial Board (Guest Editor)**
Journal: International Journal of Molecular Sciences
Special Issue: Microbial Enzymes for Biotechnological Applications
- 2022 – to date** **Member of the Editorial Board (Associate Editor)**
Journal: Frontiers in Microbiology
Section: Biology of Archaea
- 2022 – to date** **Member of the Editorial Board (Reviewer Editor)**
Journal: Frontiers in Microbiology
Section: Microbiotechnology
- 2022 – to date** **Member of the Editorial Board (Guest Editor)**
Journal: International Journal of Molecular Sciences
Special Issue: Extreme Biocatalysts: From Basic Research to Biotechnological Applications

2021 – to date	Member of the Editorial Board (Topical Advisory Member) Section Topical Advisory Panel Members for 'Biochemistry' Journal: International Journal of Molecular Sciences
2021 – to date	Member of REPRISE Expert Peer Reviewer for Italian Scientific Evaluation of Project Proposals
2020 – to date	Member of the Editorial Board (Guest Editor) Journal: Frontiers in Microbiology Research Topic: New Insights into the Genetic Mechanisms of Thermophilic Archaea
2019 – to date	Member of the Editorial Board (Reviewer Editor) Journal: Frontiers in Microbiology Section: Biology of Archaea
2014 – to date	Invited Reviewer ACS Sustainable Chemistry & Engineering (ACS Publications); Scientific Reports (Nature Publishing Group); Biotechnology for Biofuels (Springer Nature, BCM); Biomass Conversion and Biorefinery (Springer Nature); Frontiers in Microbiology (Frontiers Media); Microbial Cell Factories (BCM); Environmental Technology & Innovation (Elsevier); Marine Drugs (MDPI); Nanomaterials (MDPI); Microorganisms (MDPI); Bioengineering (MDPI); Extremophiles (Springer Link); Biocatalysis and Agricultural Biotechnology (Elsevier); Journal of Cleaner Production (Elsevier).

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali"

Verona, settembre 2025
Salvatore Fusco



*DICHIARAZIONE SOSTITUTIVA DI CERTIFICAZIONE O DELL'ATTO DI NOTORIETÀ
(artt. 46 e 47 del D.P.R. 445/2000)*

Il sottoscritto Salvatore Fusco nato a Torre Annunziata (NA) il 02/07/1985 e residente a Napoli (NA), in via Antonio Villari 45 (80137), tel. 3398620188, codice fiscale FSCSVT85L02L245T, consapevole della responsabilità penale cui può andare incontro in caso di dichiarazione mendace, ai sensi dell'art. 76 del D.P.R. 445 del 28/12/2000,

DICHIARA

che tutto quanto riportato nel presente Curriculum Vitae corrisponde al vero.

Verona, settembre 2025
Salvatore Fusco

