

CURRICULUM VITAE
EUROPEAN FORMAT

PERSONAL INFORMATION

Name, Surname	Aldo Nicosia
Address	Piazza degli Eroi n.14, 93017 San Cataldo (CI)
House number, street name, postcode, city, country	Italy
Telephone	+39 3274040450
E-mail	aldo.nicosia@iamc.cnr.it
Website	orcid.org/0000-0002-1013-2862
Nationality	Italy
Place and Date of birth	San Cataldo (CI), 24-08-1983

WORK EXPERIENCE

Date	13/05/2013 –to date
Name and address of employer	RICERCATORE III LIVELLO (N. MATRICOLA: 15320) Consiglio Nazionale delle Ricerche- Istituto per l'Ambiente Marino Costiero, SS Capo Granitola, Campobello di Mazara 91021 (Italia) Molecular biologist at laboratory of Molecular Ecology and Biotechnology
Type of business or sector	Consiglio Nazionale delle Ricerche- Istituto per l'Ambiente Marino Costiero, SS Capo Granitola, Campobello di Mazara 91021 (Italy) IAMC CNR
Occupation or position held	Via del Mare 3 Public Research Organization Researcher
Main activities and responsibilities	Design, management and development of research in the field of molecular biology, genomics, gene expression patterns, marine biotechnology and molecular ecology . Transcriptome and genome wide identification of bioactive molecules from marine organisms. Characterization of the defense and stress mechanisms in the defense system in aquatic invertebrates. Analysis of gene regulatory network in sea urchin embryo Transcriptional survey, computational analyses, contig assembly, ESTs and TSA libraries assembly. <i>In silico</i> identification of promoter elements, TSS, transcriptional factor binding sites. Characterization of protein-protein interaction in vivo/in vitro Comparative molecular evolution, homology modelling, model superposition, comparative modelling of protein structure and evolution. Reviewer and member of editorial board for ISI indexed journals

EDUCATION AND TRAINING

Date	01/01/2007–31/12/2009
Name and type of organisation providing education and training	University of Palermo Piazza Marina, 61, 90133 Palermo (Italia)
Principal subjects occupational skills covered	Identification of cis acting elements regulating $\alpha 2$ tubulin gene expression in the embryo of sea urchin <i>Paracentrotus lividus</i> , under the supervision of professor Fabrizio Gianguzza PhD. <i>In silico</i> identification of transcriptional factor binding sites, DNase footprinting, EMSA assay, GFP/Luc reporter constructs production, gene transfer experiments, <i>in situ</i> hybridisation, qRT-PCR.
Title of qualification awarded	PhD in Cellular and Developmental Biology
Level in National classification	ISCED 6
Date	December 2004 –13/07/2006
Name and type of organisation providing education and training	University of Palermo Piazza Marina, 61, 90133 Palermo (Italia)
Principal subjects occupational skills covered	Molecular biology, gene cloning, yeast recombinant expression vectors, auxotrophic selection methods, protein protein interaction, protein pull-down, yeast two hybrid assay, under the supervision of professor Fabrizio Gianguzza PhD. Identification of a novel factor interacting with the cytoplasmic domain of LDL receptor.
Title of qualification awarded	MSc –Cellular and Molecular Biology
Vote	110/110 magna cum laude
Level in National classification	ISCED 5

RESEARCH ACTIVITIES

Research sectors

Molecular biology, molecular genomics, biotechnology, computational and comparative genomics, homology modelling, developmental biology, marine molecular ecology, molecular evolution, comparative modelling of protein structure and evolution, molecular ecotoxicology, DNA barcoding.

Articles on ISI indexed journal**(period: 2013-2017)**

1. Cuttitta Angela, Ragusa Maria Antonietta, Costa Salvatore, Bennici Carmelo, Colombo Paolo, Mazzola Salvatore, Gianguzza Fabrizio, Nicosia Aldo (2017) Evolutionary conserved mechanisms pervade structure and transcriptional modulation of allograft inflammatory factor-1 from sea anemone *Anemonia viridis*. Fish Shellfish Immunol. 2017 67:86-94. doi: 10.1016/j.fsi.2017.05.063.
2. Ragusa Maria Antonietta, Nicosia Aldo, Costa Salvatore, Cuttitta Angela, Gianguzza Fabrizio. (2017) Metallothionein Gene Family in the Sea Urchin *Paracentrotus lividus*: Gene Structure, Differential Expression and Phylogenetic Analysis. Int J Mol Sci. 2017 Apr 12;18(4). pii: E812. doi: 10.3390/ijms18040812.
3. Ragusa Maria Antonietta, Costa Salvatore, Cuttitta Angela, Gianguzza Fabrizio, Nicosia Aldo. (2017) Coexposure to sulfamethoxazole and cadmium impairs development and attenuates transcriptional response in sea urchin embryo. Chemosphere. 2017 Aug;180:275-284. doi: 10.1016/j.chemosphere.2017.04.030.
4. Costa Salvatore, Nicosia Aldo, Cuttitta Angela, Gianguzza Fabrizio, Ragusa Maria Antonietta. (2017) An Intronic cis-Regulatory Element Is Crucial for the Alpha Tubulin PI-Tuba1a Gene Activation in the Ciliary Band and Animal Pole Neurogenic Domains during Sea Urchin Development. PLoS One. 2017 Jan 31;12(1):e0170969. doi: 10.1371/journal.pone.0170969.
5. Aldo Nicosia, Teresa Maggio, Costa Salvatore, Salamone Monica, Tagliavia Marcello, Mazzola Salvatore, Gianguzza Fabrizio, Cuttitta Angela (2016): Maintenance of a Protein Structure in the Dynamic Evolution of TIMPs over 600 Million Years. Genome Biology and Evolution 8(4):1056-1071. doi:10.1093/gbe/evw052
6. Aldo Nicosia, Salvatore Costa, Marcello Tagliavia, Teresa Maggio, Monica Salamone, Giorgia Adamo, Maria Antonietta Ragusa, Carmelo Bennici, Tiziana Masullo, Salvatore mazzola, Fabrizio Gianguzza, Angela Cuttitta (2016): The nucleic acid-binding protein PcCNBP is transcriptionally regulated during the immune response in red swamp crayfish *Procambarus clarkii*. Cell Stress Chaperones. 2016 May;21(3):535-46. doi: 10.1007/s12192-016-0681-9.
7. .Marcello Tagliavia, Aldo Nicosia, Monica Salamone, Girolama Biondo, Carmelo Daniele Bennici, Salvatore Mazzola, Angela Cuttitta (2016): Development of a fast DNA extraction method for sea food and marine species identification. Food Chemistry 07/2016; 203:375-378. DOI:10.1016/j.foodchem.2016.02.095.
8. Bulati Matteo, Longo Alessandra, Masullo Tiziana, Vlah Sara, Bennici Carmelo, Bonura Angela, Salamone Monica, Tagliavia Marcello, Nicosia Aldo, Mazzola Salvatore, Colombo Paolo, Cuttitta Angela. (2016) Partially Purified Extracts of Sea Anemone *Anemonia viridis* Affect the Growth and Viability of Selected Tumour Cell Lines. Biomed Res Int. 2016;2016:3849897.
9. Monica Salamone, Aldo Nicosia, Carmelo Bennici, Paola Quatrini, Valentina Catania, Salvatore Mazzola, Giulio Ghersi, Angela Cuttitta (2015): Comprehensive Analysis of a *Vibrio parahaemolyticus* Strain Extracellular Serine Protease VpSP37. PLoS ONE 05/2015; 10(7). DOI:10.1371/journal.pone.0126349.
10. Angela Cuttitta, Bernardo Patti, Teresa Maggio, Enza Maria Quinci, Anna Maria Pappalardo, Venera Ferrito, Vito De Pinto, Marco Torri, Francesca Falco, Aldo Nicosia, Marianna Musco, Grazia Maria Armeri, Francesco Placenti, Giorgio Tranchida, Roberta Mifsud, Angelo Bonanno, Salvatore Mazzola (2015): Larval population structure of *Engraulis encrasicolus* in the Strait of Sicily as revealed by morphometric and genetic analysis. Fisheries Oceanography 03/2015; 24(2). DOI:10.1111/fog.12098.
11. Aldo Nicosia, Monica Salamone, Salvatore Mazzola, Angela Cuttitta (2015): Transcriptional and Biochemical Effects of Cadmium and Manganese on the Defense System of *Octopus vulgaris* paralarvae. BioMed Research International volume 2015. DOI:10.1155/2015/437328.
12. Aldo Nicosia, Teresa Maggio, Salvatore Mazzola, Fabrizio Gianguzza, Angela Cuttitta, Salvatore Costa (2014): Characterization of Small HSPs from *Anemonia viridis* Reveals Insights into Molecular Evolution of Alpha Crystallin Genes among Cnidarians. PLoS ONE 09/2014; 9(9):e105908. DOI:10.1371/journal.pone.0105908.
13. Aldo Nicosia, Monica Celi, Mirella Vazzana, Maria Alessandra Damiano, Nicolò Parrinello, Fabio D'Agostino, Giuseppe Avellone, Serena Indelicato, Salvatore Mazzola, Angela Cuttitta (2014): Profiling the physiological and molecular response to sulfonamidic drug in *Procambarus clarkii*. Comparative Biochemistry and Physiology Part C Toxicology & Pharmacology 07/2014; 166. DOI:10.1016/j.cbpc.2014.06.006.
14. Paolo. Censi, Filippo Saiano, Pierpaolo. Zuddas, Aldo Nicosia, Salvatore Mazzola, Maria Raso (2014): Authigenic phase formation and microbial activity control Zr, Hf, and rare earth element distributions in deep-sea brine sediments. Biogeosciences 01/2014; 11(4). DOI:10.5194/bg-11-1125-2014.
15. Aldo Nicosia, Teresa Maggio, Salvatore Mazzola, Angela Cuttitta (2013): Evidence of Accelerated Evolution and Ectodermal-Specific Expression of Presumptive BDS Toxin cDNAs from *Anemonia viridis*. Marine Drugs 11/2013; 11(11):4213-31. DOI:10.3390/md11114213.

ADDITIONAL INFORMATION

Academic Position Assignment	Contract lecturer Molecular Biology, Bachelor's Degree in Biological Sciences, University of Palermo Piazza Marina, 61, 90133 Palermo (Italy)
Journal Reviewer	Cell Stress and Chaperones; Aquatic Toxicology; Frontiers in Marine Biotechnology
Mother Tongue:	Italian
Other Languages:	English: Listening B2; Reading C1; Spoken Interaction and production: B2; writing: B2
Computer Data analysis competencies	Excellence knowledge of UCSF CHIMERA package; PHYRE2, HH-PRED, SWISS-MODEL, INTERPRO, PFAM, ELM, 9AA_TD PRABI-Doua: CAP3, YAPP Eukaryotic Core Promoter Predictor, Poly(A) Signal Miner, Transfac, NetGene2. Multiple Sequence Alignment (Clustal Omega, MAFFT, T-COFFEE, Muscle).EMBOSS Needle, LALIGN, Wise2DBA, GeneWise, PromoterWise. VISTA suite: programs and databases for comparative analysis of genomic sequences. MEGA: Molecular Evolutionary Genetics Analysis package Good knowledge of Microsoft Office package.

