

EUROPEAN  
CURRICULUM VITAE



PERSONAL INFORMATION

Name	<b>AngelaCuttitta</b>
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Nationality	<b>Italian</b>
Dateofbirth	<b>22<sup>nd</sup> December1965</b>

**Introduction**

**AngelaCuttitta**, BiologistResearcher, ItalianNationalResearchCouncil, InstitutefortheCoastalMarineEnvironment, UOSofCapoGranitola, Via delMare, 3-91026Campobello di Mazara (Italy). Angela CuttittaobtainedhermasterinBiologyn1991atUniversityofPalermo. In2004obtained PhD in Marine Ecology at University of Vigo Spain. From 2000 to 2004 she spent a period in Malaga and in Baleari Island at the *Istituto Espanol de Oceanografia*.

From 2009 she is researcher of Italian National Research Council at IAMC-CNR.

From 2010 she lead a National Research Council spin-off in marine biotechnology ABIEL Applicazioni Biomediche ed Industriali di Enzimi Litici.

Her fields of interest have been focused on marine ecology and biology.

In particular:

Mechanisms of coupling between physical-chemical factors and biological resources in seawater column;

Biologic and genetic characteristics of ichthyoplanktonic species;

Mechanisms of response of organisms in relation to different stress and pollution;

Research of bio molecules and active substances of marine origin.

**EDUCATION AND TRAINING**

**2004**

Ph.D. at the University of Biological Sciences, Department of Biology and Animal Ecology, University of Vigo, Spain. Title of the tesi: Ecology of anchovies' larva *Engraulis encrasicolus*, in the Channel of Sicily

**17 Marzo 1991**

Degree in Biological Sciences with the final mark of 108/110 at the University of Palermo. Title of the thesis: "Ecology and reproduction of *Aristeus antennatus* (Crustacea, decapoda) in the Gulf of Castellammare". Supervisor: Prof. S. Riggio.

**Luglio 1984**

School-leaving Certificate: Liceo Classico G. Meli Palermo, final mark 52/60.

**MAIN TRAINING COURSES, WORKSHOPS, WORKING GROUPS**

**2010**

New Drugs, New Vaccines, and New Insights into the Cause and Prevention of Human Diseases. Foundation: RIMED Palermo

**2007**

6° International islet isolation workshop, Network of islet Centers in Europe (Nice). ISMETT, University of Pittsburgh.

**2003**

Working group sul progetto FAO-MedSusMed in qualità di esperto di metodologie di campionamento e analisi delle larve di specie ittiche nel gruppo di ittioplancton.

**2000**

Training Course on analysis and identification of phytoplankton at IEO in Fuengirola, Malaga, prof. Alberto Garcia  
Training Course on analysis and identification of tuna's larva at IEO in Baleari, Malaga, prof. Francisco Alemany

**1996**

International School Of Ethology Ettore Majorana on "Research Techniques In Ethology And Animal Ecology: Uses And Misuses", held by Prof. Danilo Mainardi.

### **SPIN-OFF**

spin-off CNR "ABIEL Biomedical and Industrial Applications of lytic enzymes" on the subject: study, research, development, production and marketing of biotechnology products, with particular focus on the synthesis or extraction of lytic enzymes for cell therapy.

### **AFFILIATIONS**

Italian Society of Marine Biology - S.I.B.M. Onlus Ecology

Italian Company - S.It.E.

Interest Group on the Marine Environment and its Resources - GIAMAR. Spatial Interest Groups, 8 GIT.

Mondogit non-profit organization Social Enterprise.

### **PUBLICATIONS ON MAGAZINES WITH INTERNATIONAL EDITORIAL COMMITTEE**

**Cuttitta A**, Ragusa MA, Costa S, Bennici C, Colombo P, Mazzola S, Gianguzza F, Nicosia A. (2017). Evolutionary conserved mechanisms pervade structure and transcriptional modulation of allograft inflammatory factor-1 from sea anemone *Anemonia viridis*. *Fish Shellfish Immunol.* 2017 Aug;67:86-94.

Ragusa MA, Costa S, **Cuttitta A**, Gianguzza F, Nicosia A. (2017). Coexposure to sulfamethoxazole and cadmium impairs development and attenuates transcriptional response in sea urchin embryo. *Chemosphere.* 2017 Aug;180:275-284.

Ragusa MA, Nicosia A, Costa S, **Cuttitta A**, Gianguzza F. (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).

Salvatore Costa, Aldo Nicosia, **Angela Cuttitta**, Fabrizio Gianguzza, Maria Antonietta. Ragusa (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.* Jan 31;12(1):e0170969. doi: 10.1371/journal.pone.0170969.

Musco M, **Cuttitta A**, Bicchi E, Quinci EM, Sprovieri M, Tranchida G, Giaramita L, Traina A, Salvagio Manta D, Gherardi S, Mercurio P, Siragusa A, Mazzola S. Benthic Foraminifera as bio-indicators of anthropogenic impacts in coastal environments: Acqua dei Corsari area case study (Palermo, Italy). *Mar Pollut Bull.* 2017 Jan 30. pii: S0025-326X(17)30043-7. doi: 10.1016/j.marpolbul.2017.01.032.

Costa S, Nicosia A, **Cuttitta A**, Gianguzza F, Ragusa MA. 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.

Bulati, M., Longo, A., Masullo, T., Vlah, S., Bennici, C., Bonura, A., Salamone, M., Tagliavia, M., Nicosia, A., Mazzola, S., Colombo, P., **Cuttitta, A.** Partially Purified Extracts of Sea Anemone *Anemonia viridis* Affect the Growth and Viability of Selected Tumour Cell Lines. (2016) *BioMed Research International*, 2016, art. no. 3849897. DOI: 10.1155/2016/3849897

Nicosia, A., Costa, S., Tagliavia, M., Maggio, T., Salamone, M., Adamo, G., Ragusa, M.A., Bennici, C., Masullo, T., Mazzola, S., Gianguzza, F., **Cuttitta, A.** The nucleic acid-binding protein PcCNBP is transcriptionally regulated during the immune response in red swamp crayfish *Procambarus clarkii* (2016) *Cell Stress and Chaperones*, 21 (3), pp. 535-546. DOI: 10.1007/s12192-016-0681-9

Tagliavia, M., Nicosia, A., Salamone, M., Biondo, G., Bennici, C.D., Mazzola, S., **Cuttitta, A.** Development of a fast DNA extraction method for sea food and marine species identification (2016) *Food Chemistry*, 203, pp. 375-378. DOI: 10.1016/j.foodchem.2016.02.095

Nicosia A, Maggio T, Costa S, Salamone M, Tagliavia M, Mazzola S, Gianguzza F, **Cuttitta A.** Maintenance of a Protein Structure in the Dynamic Evolution of TIMPs over 600 Million Years. (2016) *Genome biology and evolution*, vol. 8, no. 4, pp. 1056-1071. DOI: 10.1093/gbe/evw052

Tagliavia, M., **Cuttitta, A.** Exploiting translational coupling for the selection of cells producing toxic recombinant proteins from expression vectors. (2016) *BioTechniques*, 60 (3), pp. 113-118. DOI: 10.2144/000114387

Falco F, Barra M, Cammarata M, **Cuttitta A**, Jia S, Bonanno A, Mazzola S, Wu G. Amino acid composition in eyes from zebrafish (*Danio rerio*) and sardine (*Sardina pilchardus*) at the larval stage. *Springerplus.* 2016 Apr 26;5:519. doi: 10.1186/s40064-016-2137-1.

**Angela Cuttitta**, Sergio Bonomo, Salem Zgozi, Angelo Bonanno, Bernardo Patti, Enza Maria Quinci, Marco Torri, Mohamed Hamza, Abdul Fatah, Daw Haddoud, Akram El Turki, Abdul Bari Ramadan, Simona Genovese and Salvatore Mazzola. The influence of physical and biological processes on the ichthyoplankton communities in the Gulf of Sirte (Southern Mediterranean Sea). *Marine Ecology An Evolutionary Perspective*. 2016. DOI: 10.1111/maec.12362

Masullo, T., Armata, N., Pendolino, F., Colombo, P., Celso, F.L., Mazzola, S., **Cuttitta, A.** Low-Cost Synthesis of Smart Biocompatible Graphene Oxide Reduced Species by Means of GFP (2016) *Applied Biochemistry and Biotechnology*, 178 (3), pp. 462-473. DOI: 10.1007/s12010-015-1887-5

**Cuttitta, A.**, Quinci, E.M., Patti, B., Bonomo, S., Bonanno, A., Musco, M., Torri, M., Placenti, F., Basilone, G., Genovese, S., Armeri, G.M., Spanò, A., Arculeo, M., Mazzola, A., Mazzola, S. Different key roles of mesoscale oceanographic structures and ocean bathymetry in shaping larval fish distribution pattern: A case study in Sicilian waters in summer 2009 (2016) *Journal of Sea Research*, 115, pp. 6-17. DOI: 10.1016/j.seares.2016.04.005

Pappalardo A. M., **Cuttitta A.**, Sardella A., Musco M., Maggio T., Patti B., Mazzola S., Ferrito V. (2015) DNA barcoding and COI sequence variation in Mediterranean lantern fishes larvae. *Hydrobiologia* 01/2015; 749(1). DOI:10.1007/s10750-014-2161-5.

**Cuttitta A.**, Patti B., Maggio T., Quinci E.M., Pappalardo A. M., Ferrito V., De Pinto V., Torri M., Falco F., Nicosia A., Musco M., Armeri G.M., Placenti F., Tranchida G., Mifsud R., Bonanno A., Mazzola S. (2015) Larval population structure of *Engraulis encrasicolus* in the Strait of Sicily as revealed by morphometric and genetic analysis. *Fisheries Oceanography*; 24(2). DOI:10.1111/fog.12098.

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Monica Salamone, Aldo Nicosia, Carmelo Bennici, Paola Quatrini, Valentina Catania, Salvatore Mazzola, Giulio Ghersi, **Angela Cuttitta**. Comprehensive Analysis of a *Vibriopara* haemolyticus Strain Extracellular Serine Protease VpSP37. *PLOS ONE* | DOI:10.1371/journal.pone.0126349 July 10, 2015

Eils Puncher, Alessia Cariani, Firdes Saadet Karakulak, **Angela Cuttitta**. Molecular Identification of Atlantic Bluefin Tuna (*Thunnus thynnus*, Scombridae) Larvae and Development of a DNA Character-Based Identification Key for Mediterranean Scombrids. *PLOS ONE* | DOI:10.1371/journal.pone.0130407 July 6, 2015

R. Zaccone, G. Caruso, **A. Cuttitta**, R. La Ferla. Seasonal changes on microbial metabolism and biomass in the euphotic layer of Sicilian Channel. *ARTICLE in MARINE ENVIRONMENTAL RESEARCH · JULY 2015*

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Federico Falcini<sup>1</sup>, Luigi Palatella, **Angela Cuttitta**, Bruno Buongiorno Nardelli, Guglielmo Lacorata, Alessandra S. Lanotte, Bernardino Patti, Rosalia Santoleri. The Role of Hydrodynamic Processes on Anchovy Eggs and Larvae Distribution in the Sicily Channel (Mediterranean Sea): A Case Study for the 2004 Data Set. *PLOS ONE* | DOI:10.1371/journal.pone.0123213 April 27, 2015

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**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. Larval population structure of *Engraulis encrasicolus* in the Strait of Sicily as revealed by morphometric and genetic analysis 03/2015; 24(2). DOI:10.1111/fog.12098 · 2.54 Impact Factor *Fisheries Oceanography* .Article

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Nicosia A., Maggio T., Mazzola S., Gianguzza F., **Cuttitta A.**, Costa S. Characterization of small HSPs from *Anemonia viridis* reveals insights into molecular evolution of alpha crystallin genes across cnidarians. *Plos One*, 2014 Sep 24;9(9):e105908

Nicosia A., Celi M., Vazzana M., Damiano M. A., Parrinello N., D'Agostino F., Avellone G., Indelicato S., Mazzola S., **Cuttitta A.** Profiling the physiological and molecular responses to sulfonamidic drug in *Procambarus clarkii*. *Comparative Biochemistry and Physiology-Part C: Toxicology & Pharmacology*. 2014 Nov; 166:14-23.

Giannoulaki M., M. Iglesias, M.P. Tugores, A. Bonnanno, B. Patti, A. De Felice, I. Leonori, J.L. Bigot, V. Ticina, M.M. Pyrounaki, [...], S. Somarakis, E. Schimenou, E. Quinci, G. Basilone, **A. Cuttitta**, F. Campanella, J. Miquel, D. Oñate, D. Roos, V. Valavanis. Characterizing the potential habitat of European anchovy *Engraulis encrasicolus* in the Mediterranean Sea, at different life stages. *Fisheries Oceanography* **03/2013**; 22(2):69-89. DOI:10.1111/fog.12005 · 2.54 Impact Factor Article

Tiziana Masullo, Riccardo Puccio, Mariarosaria Di Pierro, Marcello Tagliavia, Paolo Censi, Valeria Vetri, Valeria Militello, **Angela Cuttitta**, Paolo Colombo. Development of a Biosensor for Copper Detection in Aqueous Solutions Using an *Anemonia sulcata* Recombinant GFP. *Applied biochemistry and biotechnology* **12/2013**; 172(4). DOI:10.1007/s12010-013-0669-1 · 1.69 Impact Factor Article

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Nicosia Aldo, Teresa Maggio, Salvatore Mazzola and **Angela Cuttitta**. Evidence of accelerated evolution in BDS toxin cDNAs from *Anemonia viridis* and ectodermal specific expression. *Marine Drugs* **11/2013**; 11(11):4213-31. DOI:10.3390/md11114213 · 3.51 Impact Factor

Pappalardo Anna Maria, Venera Ferrito, Angelo Sardella, Teresa Maggio, Gemma Biondo, Bernardo Patti, Angelo Bonanno, Salvatore Mazzola, **Angela Cuttitta**. Il dna barcoding nell'identificazione molecolare degli stadi larvali di pesci mesopelagici. *Marine Drugs*

Basilone G., Bonanno A., Patti B., Mazzola S., Barra M., **Cuttitta A.** and McBride R. Spawning site selection by European anchovy (*Engraulis encrasicolus*) in relation to oceanographic conditions in the Strait of Sicily. *Fishery Oceanography*, vol. 22:4 (309-323) **2013**.

Censi P., Randazzo L.A., D'Angelo S., Saiano F., Zuddas P., Mazzola S., **Cuttitta A.** Relationship between Rare Earth contents in *Emys trinacris* aquatic turtles and environmental exposures. *Chemosphere*, VOL. 91(8):1130-5, **2013**. ID:226899

Censi Paolo, E. Tamburo, L.A. Randazzo, Pierpaolo Zuddas, **Angela Cuttitta**, Thomas H. Darrah Using the Trace Element Content in Bronchoalveolar Lavages to Probe the Human Exposure to Inhaled Particulates in Medical Geochemistry. *Springer* **2013** ID: 226538]

Censi P; Randazzo L, A D'Angelo, S Saiano, F Zuddas, P Mazzola, S; **Cuttitta A.** Relationship between lanthanide contents in aquatic turtles and environmental exposures. *Elsevier* 10.1016/j.chemosphere.2013.01.017 3.50 Impact Factor

Bonanno, S. Zgozi, **A. Cuttitta**, A. Eitürki, A. Di Nieri, H. Ghmati, G. Basilone, S. Aronica, M. Hamza, M. Barra, S. Genovese. Influence of environmental variability on anchovy early life stages (*Engraulis encrasicolus*) in two different areas of the Central Mediterranean Sea. *Hydrobiologia* **01/2012**; DOI:10.1007/s10750-012-1285-8 · 2.21 Impact Factor

Celi M., Filiciotto F., Parrinello D., **Cuttitta A.**, Damiano A., D'Angelo S., Mazzola S., Buscaino G., Vazzana M. Physiological and agonistic behavioural response of *Procambarus clarkii* to an acoustic stimulus. *Journal of Experimental Biology* **11/2012**; 216(4). DOI:10.1242/jeb.078865 · 3.00 Impact Factor

Filiciotto Francesco, Daniela Parrinello, Giuseppa Buscaino, Maria Alessandra Damiano, **Angela Cuttitta**, Stefania D'Angelo, Salvatore Mazzola and Mirella Vazzana (2013) Physiological and agonistic behavioural response of *Procambarus clarkii* to an acoustic stimulus in *Journal of experimental biology*. *Journal of Experimental Biology* (Impact Factor: 3). **11/2012**; 216(4). DOI:10.1242/jeb.078865

M. Salamone, **A. Cuttitta**, F. Bertuzzi, C. Ricordi, G. Ghersi, G. Seidita. Biochemical Comparison Between *Clostridium histolyticum* Collagenases G and H obtained by DNA Recombinant and Extractive Procedures. *Chemical Engineering Transactions*. **01/2012**

Monica Salamone, **Angela Cuttitta**, Gregorio Seidita, Salvatore Mazzola, Federico Bertuzzi, Camillo Ricordi, Giulio Ghersi. Characterization of Collagenolytic/Proteolytic Marine Enzymes. **01/2012**; DOI:10.3303/CET1227001

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P. Censi, E. Tamburo, S. Speziale, P. Zuddas, L.A. Randazzo, R. Punturo, Aricò and **A. Cuttitta** (2011) - Rare Earth elements and yttrium in human lung fluids probing the exposure to atmospheric fallout. *Journal of hazardous materials* (impact factor: 4.14). 02/2011; 186(2-3):1103-10. DOI: 10.1016/j.jhazmat.2010.11.113

Censi P., Zuddas P., Randazzo L.A., Tamburo E., Speziale S., **Cuttitta A.**, Punturo R., Aricò P., Santagata R. (2011) - Source and nature of inhaled atmospheric dust from trace element analyses of human bronchial fluids. *Environ. Sci. Tech.* 45, 6262-6267. *Environmental Science & Technology* (impact factor: 4.63). 06/2011; DOI: 10.1021/es200539p

Isabel Riveiro, Castor Guisande, Pilar Iglesias, Walter G. Basilone, **Angela Cuttitta**, Ana Gira'Ídez, Bernardo Patti, Salvatore Mazzola, Angelo Bonanno, Alba-Ruth Vergara, Isabel Maneiro. 2011. Identification of subpopulations in pelagic marine fish species using amino acid composition. *In press*. *Hydrobiologia* DOI 10.1007/s10750-011-0663-y

**Cuttitta A.**, Patti B., Falco F., Quinci E., Bonanno A., Basilone G., Adamo A., Patti C., Buscaino G., Camilleri M., Mosteiro A., Bahri T., Musco M., Masullo T. & Mazzola S. Larval fish communities in relation to biological and physical Oceanography in the Maltese Bank and in the east strait of Sicily. *Marine Ecology: a evolutionary perspective*. In Stampa

Aronica S., Bonanno A., Mazzola S., Buscaino G., Basilone G., **Cuttitta A.**, Patti B., Fontana I., Giacalone G. 2011. Development of the 3D Marine Atmosphere Sound Detector (3D-MASD) system and a first application in Mediterranean sea. *Ocean Engineering*. Sottomesso

Traina A., Basilone G., Ferreri R., Caruana L., Quinci E., Bonomo S., Masullo T., **Cuttitta A.**, Mazzola S. 2011. Stock discrimination and population structure of Mediterranean anchovy by means of traditional and geometric morphometric techniques. *Advanced in*

Oceanography and Limnology. Sottomesso

Musco M., Vizzini S., Tramati C., **Cuttitta A.**, Mazzola S., Savona A., Napolitano R., Mazzola A. (2011): Preliminary results on the distribution of benthic foraminifera in the lagoon-like coastal basin "Stagnone di Marsala" (Trapani, Italy)". *Transitional Waters Bulletin - Special Issue*.

Maccarrone, V., Buscaino, G., Filiciotto, F., Buffa, G., Bellante, A., Sprovieri, M., Bonanno, A., Basilone, G., **Cuttitta, A.**, Patti, B., Mazzola, S. (2010) The Use of Aerial Photography in GIS Mapping of Seagrass Meadows. NEW YORK: Nova Science Publishers, vol. 115, Issues 1-2, Pag. 129-140

**Cuttitta A.**, Patti B., Falco F., Quinci E., Bonanno A., Basilone G., Adamo A., Caruana L., Patti C., Buscaino G., Masullo T., Camilleri M., Mosteiro A., Bahri T., Labruzzo P., Musco M., Mazzola S. 2010. Ichthyoplanktonic Characterization of Maltese Bank. *Marine Ecology. In stampa*

M. Salamone, G. Seidita, A. Cuttitta, S. Riogliuso, S. Mazzola, F. Bertuzzi, And G. Gherzi (2010). A new method to valued efficiency of enzyme blends for pancreas tissue digestion. Volume 42, Issue 6, Pages 2043-2048 *Transplantation proceeding*.

Patti B., Guisande C., Bonanno A., Basilone G., **Cuttitta A.**, Mazzola S. 2010. Role of Physical forcings and Nutrient Availability on the control of Satellite-Based Chlorophyll concentration in the coastal Upwelling area of the Sicilian Channel. *Scientia Marina*. (2010) 577-588

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## BREVETTI

Bertuzzi F., Cuttitta A., Gherzi G., Mazzola S., Salamone M., Seidita G. 2010. Collagenasi ricombinanti di *C. Histolyticum* e metodo per la loro produzione. Brevetto industriale n° RM2009A000661.

Domanda di deposito internazionale PCT, numero di riferimento PCT/IB2010/055840. titolo: C. HYSTOLITICUM RECOMBINANT COLLAGENASES AND METHOD FOR THE MANUFACTURE THERE OF . Autori: Federico Bertuzzi, Giulio Gherzi, Salvo Mazzola, Gregorio Seidita, Monica Salamone, Angela Cuttitta. Data di deposito 15-12-2010.

Brevetto italiano dal titolo Ns. Rif.: BI4064R/BI/rmc data di deposito 15-12-2009

Collagenasi ricombinanti di *C. histolyticum* e metodo per la loro produzione. autori: Federico Bertuzzi, Giulio Gherzi, Salvo Mazzola, Gregorio Seidita, Monica Salamone, Angela Cuttitta Italia Vs. Rif.: COLLAGENASI

Mazzola S., Bonanno A., Patti B., Ricotta A., Basilone G., Cuttitta A., Buscaino G., Calise L. (2001). SPARS (Software Package for Acoustic Remote Sensing), un Sistema Software per applicazioni nel campo del Sondaggio Acustico Remoto. Approvato dal Consiglio Nazionale delle Ricerche come Brevetto Industriale, attualmente in fase di deposizione come brevetto di classe internazionale. Registrazione copyright S.I.A.E. n. 0101313 del 26/03/01. Riferimento CNR n.1483.

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Bonanno A., Mazzola S., Patti B., Cuttitta A., Basilone G. (1998). Generatore di segnali acustici per esperimenti in delfinario ed in mare aperto sulle interazioni cetacei – onde acustiche. Brevetto di Classe Internazionale n. RM 98 A 000039. Data di deposito 21.01.98