

European Curriculum Vitae



Personal information

Surname(s) / First name(s)

SALA, Antonello

Address(es)

13, Via De Dominicis, 60127, Ancona, Italy

Telephone(s)

+39 (071) 2814139 - +39 (328) 3070446

Fax(es)

+39 (071) 55313

E-mail(s)

a.sala@ismar.cnr.it

Nationality(-ies)

Italian

Date of birth

27 February 1968

Gender

Male

Work experience

Dates

1990-Onwards

Occupation or position held

Scientific Researcher, Responsible of the Fishing Technology Unit at CNR-ISMAR.

Main activities and responsibilities

Expert in efficiency and selectivity research; fishing gear technology and fuel saving; measurements of the engineering performance of the fishing gears at sea using underwater instrumentation; fishing gear design; netting material properties; modelling and performance; physical and biological impacts produced in the marine environment by human activities.

He is on the scientific committee of the international conferences on fishing engineering IMAM 2007, IMAM 2011 and e-Fishing 2010. He has been the responsible scientist in several EU and national research projects and attended as expert in several STECF and DGFISH Working Groups and many other international and national committees on fisheries.

He has been working on both commercial and research vessels, and is an expert in the process of research and development of fishing gears, of which some prototypes are being used by fishing industry. He is holder of three patents pending.

Name and address of employer

National Research Council (CNR) – Institute of Marine Sciences (ISMAR), Largo Fiera della Pesca, 2, 60125 Ancona (Italy).

Type of business or sector

Public research institute.

Membership of professional societies and main Working Groups

Since 2010 he is member of the EU Scientific, Technical and Economic Committee for Fisheries (STECF). Since 2009 he is President of the National Commission UNITEX SC140 "Fishing nets and ropes", for the standardization of the European textile sector within the Technical Committee CEN/TC248 "Textiles and textile products". Since 2005 he is responsible for the Fishing Technology Unit at CNR. Since 2003 he is Chair of the "Local Italian Chapter of the Eco-Ethics International Union (EEIU)". Since 2002 he is an official Member of the ICES/FAO Working Group on Fishing Technology and Fishing Behaviour (WGFTFB) and since 1999 he is member of the Italian Society of Marine Biology (SIBM). Since 1994 he has been Chief Examiner for Professional Fisheries license issued by the Italian Port Authorities.

Education and training

Dates	16-18 October 2006
Title of qualification awarded	Selectivity analysis using R
Name and type of organisation providing education and training	Ege University, Izmir, Turkey
Dates	08-12 November 2004
Title of qualification awarded	Statistical course on Analysing Biological and Environmental field data
Name and type of organisation providing education and training	Course organised by Highland Statistics Ltd (UK) at the CNR-ISMAR of Ancona, Italy
Dates	12-16 July 2004 and 26-30 July 2004
Title of qualification awarded	Course on Introduction to informative territorial systems (GIS) – Use of Arcview
Name and type of organisation providing education and training	Course organised by CNR-ISMAR of Ancona, Italy
Dates	16-18 December 2002
Title of qualification awarded	Applied Multivariate Statistical Analysis using SPSS
Name and type of organisation providing education and training	Course organised by SPSS, Milan, Italy
Dates	27 October – 1 November 2002
Title of qualification awarded	International Training Course in Trawl Technology
Name and type of organisation providing education and training	Course organised by SINTEF Fisheries and Aquaculture at the North Sea Centre Flume Tank Hirtshals, Denmark
Dates	10-11 December 2001
Title of qualification awarded	Advanced statistical techniques: Regression analysis using SPSS
Name and type of organisation providing education and training	Course organised by SPSS, Milan, Italy
Dates	9-11 July 2001
Title of qualification awarded	Statistical Analysis using SPSS
Name and type of organisation providing education and training	Course organised by SPSS, Rome, Italy
Dates	2-6 July 2001
Title of qualification awarded	Professional development course on Advanced Underwater Acoustics
Name and type of organisation providing education and training	Course organised by the Imperial College of London together with Seiche.Com Ltd, London, UK
Dates	1992-1997
Title of qualification awarded	Master degree in Mathematical, Physical and Natural Sciences (5 year degree) with a specialisation on Marine Biology and Oceanography. Graduated with full marks (110/110 with honours) discussing the final dissertation “Assessment of fish biomass of an artificial reef in the Adriatic Sea through acoustic methodology”.
Name and type of organisation providing education and training	University of Ancona, Italy
Dates	1982-1987
Title of qualification awarded	Diploma in Electronic and Telecommunication (Grade: 54/60)
Name and type of organisation providing education and training	Technical High School “V. Volterra” of Ancona, Italy

Coordination and selected project management

- 2011-2012 *ICEEF2011: Information Collection in Energy Efficiency for Fisheries* (Restricted invitation to tender IPSC/2011/04/01/NC), financed by the EC Commission, Joint Research Centre, Institute for the Protection and Security of the Citizen, Maritime Affairs Unit.
- 2010-2013 *MAREA: Framework service contract for scientific advice and other services for the implementation of the common fisheries policy in the Mediterranean* (SI2 580480), financed by the EC Commission through the *Open Call for Tenders MARE/2009/05-Lot1*.
- 2010-2013 *ECOFISHMAN: Ecosystem-based responsive fisheries management in Europe* (FP7-KBBE-2010-4, 265401), financed by the EC Commission through the Seventh Framework Programme.
- 2010-2012 *Scientific advice and other services for the implementation of the CFP in the Mediterranean* (MARE/C3/EP/V V/MF/2010), financed by the EC Commission through the *Open Call for Tenders MARE/2009/05-LOT1*.
- 2010-2012 *Technical Assistance for Introduction of Stock Assessment to the Fisheries Management System of Turkey* (EuropeAid/127296/D/SER/TR), financed by the EC Commission through the IPA Programme for Turkey 2007.
- 2010-2011 *OVERCAPACITY: Assessment of Overcapacity in EU Fisheries* (SI2.556049), financed by the EC Commission through the *Open Call for Tenders MARE/2009/03-Lot1*.
- 2010-2011 *e-AUDIT: Energy Audit in Fisheries* (01MI030706), financed by the EC Commission through the Marche Regional Authority (Fishery and Hunt directorate) through the European Fisheries Fund (EFF).
- 2010-2011 *ICEEF: Information Collection in Energy Efficiency for Fisheries* (Restricted invitation to tender IPSC/2010/04/03/NC), financed by the EC Commission, Joint Research Centre, Institute for the Protection and Security of the Citizen, Maritime Affairs Unit.
- 2010-2011 *BY-CATCH III.bis: Evaluation of the accidental catches of protected species in the pelagic trawling*, financed by the Italian Ministry of Agriculture and Forestry (Fishery and Aquaculture directorate).
- 2009-2012 *WINCH: Study of new technological equipments for increasing safety levels on board shipping vessels*, financed by the Marche Region. Project co-ordinated by Romagnoli srl (Civitanova Marche (MC), Italy).
- 2009-2010 *BY-CATCH III: Evaluation of the accidental catches of protected species in the pelagic trawling* (MIPAF 7A4), financed by the Italian Ministry of Agriculture and Forestry (Fishery and Aquaculture directorate).
- 2009-2011 *Free wave Over the Sea (FOS): system for the radio interconnection in free wave band of the shipping vessels*, financed by the Marche Region.
- 2009 *SISCA: Investigation of the twin-trawling impact on the seabed and preliminary assessment of the catch efficiency*, financed by the Italian Ministry of Agriculture and Forestry (Fishery and Aquaculture directorate) and co-ordinated by UNIMAR (Rome).
- 2007-2008 *ESIF: Energy Saving in Fisheries* (SI2.477247), financed by the EC Commission through the *Open Call for Tenders FISH/2006/17-LOT3*.
- 2006-2009 *DEGREE: Development of fishing Gears with Reduced Effects on the Environment* (SSP8-CT2004-022576), financed by the EC Commission in the Sixth Framework Programme, Priority 8.1, Policy-Oriented Research (SSP), Specific Targeted Research or Innovation Project (STREP) context.
- 2006-2007 *WAVE-BRUSH: Development of an innovative technology for the reduction of bio-fouling oyster culture* (01MI030706), financed by the EC Commission through the Marche Regional Authority (Fishery and Hunt directorate) in the Financial Instrument for Fisheries Guidance (FIFG) context.
- 2004-2007 *NECESSITY: Nephrops and Cetacean Species Selection Information and Technology* (SSP8-CT-2003-501605), financed by the EC Commission through the Sixth Framework Programme.
- 2004-2005 *Environmental impact reduction of the Italian bottom trawling: twin trawls experiment* (03MI210604-Bis), financed by the EC Commission through the Marche Regional Authority (Fishery and Hunt directorate) in the *Financial Instrument for Fisheries Guidance (FIFG)* context.

- 2003-2005 *Using the square mesh codends in Italian trawl net: effect on efficiency and selectivity* (MIPAF 6B4), financed by the Italian Ministry of Agriculture and Forestry (Fishery and Aquaculture directorate).
- 2002-2007 *Strengthening Fishery Products Health Conditions in ACP/OCT countries* (EuropeAid/114338/C/SV/ACP), financed by the EC Commission through the Call for Tenders EC-TA Lot 1: Studies and Artisanal Fisheries Support context.
- 2002-2005 *PREMECS-II: Development of predictive model of codend selectivity* (RTD Q5RS-2002-01328), financed by the EC Commission through the Fifth Framework Programme.
- 2002 *Development of an efficient macrozooplankton net for marine bio-resources monitoring* (RI project HPRI-1999-CT00060), financed by the EC Commission, in collaboration with the Norwegian University of Science and Technology at Trondheim.
- 1998 *The compound eye as an indicator of age and shrinkage in Meganyctiphanes norvegica* (RI project ERBFMGECT980135), financed by the EC Commission in collaboration with the Norwegian University of Science and Technology at Trondheim.

Invited lecturer in advanced and professional courses, masters

Guest lecturer at the International Advanced Course “*Technical advances in fishing gear for sustainable management*”, organised by the Mediterranean Agronomic Institute of Zaragoza (14-18/06/2010, Zaragoza, Spain).

Lecturer at the Professional Course “*Quality systems and certification: an integrated approach for the improvement of fishing products*”, directed to the Fisheries inspectors of the Albanian Ministry of Fishery (22-24/02/2008 and 14-16/06/2008, Tirana, Albania).

Lecturer at the multidisciplinary training Course “*Realizacion de una planta fileteadora de pescado en la isla Margarita – Edo. Nueva Esparta*” directed to the Venezuelan managers of the Fishing and aquaculture sector and organised by the Frigo Tecnica Internazionale spa (MC) in collaboration with the Venezuelan Foncrei and the Polytechnic University of Marche Region (06/07-10/08/2007, “Campus Margarita della Fundacion La Salle de Ciencias Naturales”, Venezuela).

Co-Examiner of ten master degree thesis in Engineering and Mathematical Sciences.

Assessment committee, evaluation commission

2011 Member of the International Commission for the evaluation of the PhD-Thesis “*Reduction of discards in the Danish Nephrops (Nephrops norvegicus) directed trawl fisheries in Kattegat and Skagerrak*” of Dr. Rikke Frandsen on behalf of the Aalborg University (Denmark) – Section of Environmental Engineering.

2009 Reviewer of the research project “*Testing raised-webbing gillnets to reduce bycatch of cod while targeting pollock*” on behalf of the Northeast Consortium - University of New Hampshire (USA).

2009 Independent scientific expert reviewer on behalf of the “*Agenzia Regionale per la Tecnologia e l’Innovazione (ARTI)*” (Valenzano, BA, Italy), for ten Research Projects financed by the Puglie Region (Italy) in the POR 2006-2006 context.

2006 Chairman of the International Commission for the evaluation of Dr. René Holst as Senior Scientist on behalf of the “*Ministry of Food, Agriculture and Fisheries – Danish Institute for Fisheries Research, Dept. of Marine Fisheries*” (Denmark).

2005 Member of the International Commission for the evaluation of the PhD-Thesis “*Modelling and Simulation of Size Selectivity in Diamond Mesh Trawl Codends*” of Dr. Bent Herrmann on behalf of the Aalborg University (Denmark) – The Faculty of Engineering and Science.

**Editorial board
Journal reviewer**

2011-onward Member of the Editorial board of the Open Journal of Marine Science (OJMS).

2010-onward *International ISI Journal “Fisheries Science”.*

2010-onward *International ISI Journal “Journal of Applied Ichthyology”.*

2010-onward *International ISI Journal “Journal of the Marine Biological Association of the UK”.*

2009-onward *International ISI Journal “Ocean Engineering”.*

2008-onward *International ISI Journal “ICES Journal of Marine Science”.*

2007-onward *International ISI Journal “Aquacultural Engineering”.*

2006-onward *International ISI Journal “Fisheries Research”.*

Management committee of scientific congresses

Member of the International Scientific Committee at the *16th International Congress of the International Maritime Association of the Mediterranean (IMAM 2011)* on the theme of "Sea resources exploitation: Fishing", (13-16/09/2011 Genoa, Italy).

Member of the Scientific Committee and Session Chairman at the *1st International Symposium on Fishing Vessel Energy Efficiency (e-Fishing)* (18-20/05/2010 Vigo, Spain).

Scientific convener at the International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB)" (31/05-04/06/2008, ICES Headquarters, Copenhagen) of the session "Gear Monitoring systems". Ref. ICES CM 2010/SSGESST/14 (SCICOM, ACOM).

Local organiser of the *International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB)* and *ICES Working Group Fisheries Acoustics Science and Technology (WFAST)* (18-22/05/2009, Ancona), convener of the session "Technical issues relating to the new EC Reg. 1967/2006 for the Mediterranean".

Scientific convener at the *International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB)*" (21-25/04/2008, Torshavn, Faroe Islands) of the session "Mitigation Technologies for Protected Species". Ref. ICES CM 2008/FTC:02 (WGECCO).

Member of the International Scientific Committee at the *12th International Congress of the International Maritime Association of the Mediterranean (IMAM 2007)* on the theme of "Maritime Industry, Ocean Engineering and Coastal Resources", (02-06/09/2007 Varna, Bulgaria) and Chairman of the "Fisheries and aquaculture" session invited by the congress organisation as scientific expert.

Scientific convener at the *International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB)*" (23-27/04/2007, Dublin) of the session "Technical issues relating to the Mediterranean".

Selected congress participations, invited lecture, keynote speaker

International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB) (09/05-13/05/2011, Reykjavik), rapporteur of the WGFTFB.

International Symposium on Energy use in Fisheries: Improving Efficiency and Technological Innovations from a Global Perspective (14-17 November 2010, Seattle, USA), invited speaker with the oral presentation "Fuel saving otterboards".

SmartFish 2010 - the International Symposium on Conservation and Sustainable Utilization in Marine Fisheries (28-30 October 2010, Zhoushan, China), invited speaker with the oral presentation "Energy consumption, monitoring and conservation in capture fisheries" and Chairman of the Session "Ecosystem-friendly Fishing Gears and Technologies".

National Conference "Marine biodiversity, Adriatic: a Sea of Turtles" (26 June 2010, San Benedetto del Tronto, AP, Italy), oral presentation: "Application of Turtle Excluder Devices (TEDs) for the reduction of the accidental by-catch of protected species in the Mediterranean trawl fisheries".

Workshop on technical conservation measures and discards under the reform of the Common Fisheries Policy (21/06/2010, Bruxelles), invited by the European Commission (DG-MARE) as scientific gear expert.

International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB) (31/05-04/06/2010, Copenhagen), convener of the ToR "Gear monitoring systems", paper presentations: "Highlights from Energy efficiency symposium in Vigo" and "ConTrawl: trawl gear monitoring system".

Adriatic and Ionian Chambers Forum 10th Edition (26-28 May 2010 Ancona, Italy), oral presentation: "Fuel saving in Fisheries".

1st International Symposium on Fishing Vessel Energy Efficiency (e-Fishing) (18-20/05/2010 Vigo, Spain), oral presentation: "Coriolis Fuel Mass Flow Metering for Fishing Vessels".

International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB) (18-22/05/2009, Ancona), oral presentation: "EC Reg. 1967/2006: is square-mesh better selective than larger mesh-size? Comparative experiments in Sicilian trawl fisheries".

International Study Group on Turned 90° Codend Selectivity, focusing on Baltic Cod Selectivity (SGTCOD) (23-24/05/2009, Ancona), oral presentation: "Critical review of selectivity studies with 40mm square-mesh codend. Is square-mesh better selective than larger mesh size?".

International Study Group on the Development of Fish Pots for Commercial Fisheries and Survey Purposes (SGPOT) (16-17/05/2009, Ancona), oral presentation: "Catch comparison analysis with one- and two-entrance floated fish pots".

Scientific Euro-Mediterranean conference Towards the creation of a Mediterranean scientific area (24-26/06/2008, Paris), invited by the French GID (Inter-academic Group for Development) and the French Institute of the Academy of Science as scientific expert in Fisheries and marine environment.

STECF/SGMOS-07-06 main factors affecting codend selectivity (11-15/06/2007, Aberdeen), invited by the European Commission (DG JRC, ISPRA, Agriculture and Fisheries Unit) as scientific expert.

12th International Congress of the International Maritime Association of the Mediterranean (IMAM 2007) on the theme of "Maritime Industry, Ocean Engineering and Coastal Resources", (02-06/09/2007 Varna, Bulgaria), oral presentation: "Energy saving trawl in Mediterranean demersal fisheries".

International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB) (23-27/04/2007, Dublin), convener of the ToR "Technical issues relating to the Mediterranean", paper presentation: "Review of the fishing gear management measures in the Mediterranean Sea".

Regional Mediterranean Workshop (07/09/2007, Bruxelles), invited by the European Commission (DG-FISH) as scientific expert in Fishing gear Technology.

Expert Group on Fisheries Control (04/07/2007, Bruxelles), invited by the European Commission (DG-FISH) as scientific expert.

SCSA/SCESS/SCSI Transversal Workshop on Selectivity in the Mediterranean Trawl Fisheries (02-04/04/2007, Barcelona), oral presentations: "Critical review of selectivity studies for *Mullus barbatus* (Red mullet) and *Merluccius merluccius* (European hake) in Mediterranean trawl fisheries" and "Synopsis on Mediterranean gears legislation".

ICES/FAO Nephrops Selectivity Workshop (06-08/02/2007, Aberdeen, Scotland).

ICES Symposium Fishing Technology in the 21st Century: Integrating Fishing and Ecosystem Conservation (30/10-03/11 2006, Boston, USA), poster presentation: "Experimental method for quantifying the resistance to opening of netting panels".

International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB) (03-07/04/2006, Izmir), paper presentation: "The influence of some netting material properties on PA codend size selectivity of Mediterranean bottom trawl".

International Meeting of the ICES/FAO Working Group on Fishing Technology and Fish Behaviour (18-22/04/2005, Rome), poster presentation: "Selectivity comparison of diamond and square mesh codends of Mediterranean bottom trawl".

GFCM Working group on standardization of selectivity methods applied to trawling in Mediterranean Sea (09-11/02/2005, Sète, France), oral presentations: "Codend selectivity, fish escape behaviour and fish morphology in the Mediterranean Sea trials of UE project PREMECS-II" and "Approach and methodology used in fishing experiments with square mesh codend in the Adriatic Sea".

International ICES/FAO Working Group Meeting on Fishing Technology and Fish Behaviour (WGFTFB) (20-23/04/2004, Gdynia), poster presentation: "Development of an experimental method for quantifying the resistance to opening of netting panels".

Workshop on Discard Sampling Methodology and Raising Procedures (02-04/09/2003, Copenhagen, Denmark), invited by the European Commission (DG-FISH) as scientific expert.

International ICES Working Group Meeting on Fishing Technology and Fish Behaviour (27-28/06/2003, Bergen).

ICES Symposium on Fish Behaviour in Exploited Ecosystems (22-26/06/2003 Bergen, Norway), poster presentation: "Application of multibeam sonar and stationary hydroacoustic systems for 4D marine fish biomass monitoring".

International ICES Working Group Meeting on Fishing Technology and Fish Behaviour (06-08/06/2002, Sète), oral presentation: "Development of fuel saving bottom trawl".

17th International Congress on Acoustics (02-07/09/2001, Rome), chairman of the "Hydroacoustics and underwater acoustics" session, invited as scientific expert. Oral presentation: "Stationary hydroacoustic methodology to determine diel activity of fish biomass in the artificial habitats";

32nd National Congress of the (SIBM) Italian Marine Biology Society (04-09/06/2001, Numana AN), oral presentation: "Sampling catches of *Engraulis encrasicolus* and *Sardina pilchardus* in relation with temperature and fishing depth (Adriatic Sea)";

International CCAMLR Working Group on Ecosystem Monitoring and Management (17-28/07/2000, Taormina), oral presentation: "Summer distribution, abundance and structure of krill populations (Euphausia superba and Euphausia crystallorophias) sampled in the western Ross Sea (January-February 2000)";

National Conference on Fishing and Aquaculture researches within the limits of the 41/82 law (15-16/12/1998, Rome);

International Symposium on Assessment of demersal resources by direct methods in the Mediterranean and adjacent seas (18-21/03/1998, Pisa);

International Meeting of the "ICES Working Group on Fishing Technology and Fish Behaviour" (22-24/04/1991, Ancona).

Personal skills and competences

Mother tongue(s) Italian

Other language(s)

Self-assessment

European level

English

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient User	C2	Proficient User	B2	Independent User	C1	Proficient User	C1	Proficient User

Social skills and competences

Extremely organised person, good abilities for synthetic and global views over concrete situations, end-oriented work capacity, problem-solving attitude, responsibility, self-respect and self-reliance strong referential values of fairness, equity and dignity, ability to establish and maintain good working relations with people of different national and cultural backgrounds, ability to live and/or serve in hardship locations

Organisational skills and competences

Strong organizational skills with attention to details. Excellent abilities at coordinating projects and scheduling interoffice meetings.

Technical skills and competences

Statistical analysis: SPSS statistical software package, Brodgar, CC2000 and EC2000, Primer and Permanova, R.

Geographical visualisation software, surface mapping and analysis, contouring, gridding, 2D map generation: ArcView GIS 3.3, Golden Surfer program.

2D and 3D PC-based design software: Autocad; DynamiT; CadTrawl, TrawlVision.

Computer skills and competences

Data acquisition and post-processing, database management: Visual Basic programming and VBA, Microsoft Access, Microsoft Excel, MySQL

Editing: Microsoft Word, Microsoft PowerPoint, Adobe Acrobat (Writer/Reader)

PhotoEditing: AdobePhotoShop, Adobe LightRoom

PC Operation Systems: Windows 2000, Windows XP, Windows 7.

Networking: OutlookExpress, Outlook.

Technical and Practical Abilities in Desk Equipment.

Artistic skills and competences

Amateur photography, love to travel with my family and experience different cultures.

Other skills and competences

International Scuba-diver certificate (I degree) issued by the Confederation Mondiale des Activites Subaquatiques (CMAS), 1990, Ancona, Italy.

Driving licence(s)

License B, for driving motorcycles and cars in all the European countries.

Peer-reviewed publications

(references available upon request)

- Sala A**, Lucchetti A, 2011. Effect of mesh size and codend circumference on selectivity in the Mediterranean demersal trawl fisheries. *Fisheries Research*, 110: 252-258.
- Eigaard OR, Rihan D, Graham N, **Sala A**, Zachariassen K, 2011. Improving fishing effort descriptors: Modelling engine power and gear-size relations of five European trawl fleets. *Fisheries Research*, 110: 39-46.
- Sala A**, Lucchetti A, Affronte M, 2011. Effects of turtle excluder devices (TED) on bycatch and discards reduction in the demersal fisheries of Mediterranean Sea. *Aquatic Living Resources*, 24: 183-192.
- Sala A**, De Carlo F, Buglioni G, Lucchetti A, 2011. Energy performance evaluation of fishing vessels by fuel mass flow measuring system. *Ocean Engineering*, 38: 804-809.
- Giordano D, Rinelli P, Russo A, **Sala A**, Azzali M, La Spada G, 2011. Phylogenetic relationships of the Antarctic euphausiids inhabiting the Ross Sea and the adjacent regions of Southern Ocean. *Cahiers de Biologie Marine*, 52: 1-11.
- Sala A**, Lucchetti A, 2010. The effect of mesh configuration and codend circumference on selectivity in the Mediterranean trawl Nephrops fishery. *Fisheries Research*, 103: 63-72.
- Sala A**, Prat J, Antonijuan J, Lucchetti A, 2009. Performance and impact on the seabed of an existing- and an experimental-otterboard: Comparison between model testing and full-scale sea trials. *Fisheries Research*, 100: 156-166.
- Lucchetti A, **Sala A**, 2009. An overview of loggerhead sea turtle (*Caretta caretta*) bycatch and technical mitigation measures in the Mediterranean Sea. *Reviews of Fish Biology and Fisheries*, 20(2), 141-161.
- Sala A**, Lucchetti A, Piccinetti C, Ferretti M, 2008. Size selection by diamond- and square-mesh codends in multi-species Mediterranean demersal trawl fisheries. *Fisheries Research*, 93: 8-21.
- Sala A**, Lucchetti A, 2008. Low-cost tool to reduce biofouling in oyster longline culture. *Aquacultural Engineering*, 39: 53-58.
- Prat J, Antonijuan J, Folch A, **Sala A**, Lucchetti A, Sardà F, Manuel A, 2008. A simplified model of the interaction of the trawl warps, the otterboards and netting drag. *Fisheries Research*, 94: 109-117.
- Sala A**, Lucchetti A, Buglioni G, 2007. The influence of twine thickness on the size selectivity of polyamide codends in a Mediterranean bottom trawl. *Fisheries Research*, 83: 192-203.
- Sala A**, Fabi G, Manoukian S, 2007. Vertical diel dynamic of fish assemblage associated with an artificial reef (Northern Adriatic Sea). *Scientia Marina*, 71(2): 355-364.
- Sala A**, O'Neill FG, Buglioni G, Lucchetti A, Palumbo V, Fryer RJ, 2007. Experimental method for quantifying resistance to the opening of netting panels. *ICES Journal of Marine Science*, 64: 1573-1578.
- Sala A**, Priour D, Herrmann B, 2006. Experimental and theoretical study of red mullet (*Mullus barbatus*) selection in codends of Mediterranean bottom trawls. *Aquatic Living Resources*, 19: 317-327.
- Sala A**, Lucchetti A, Buglioni G, 2004. The change in physical properties of some nylon (PA) netting samples before and after use. *Fisheries Research*, 69: 181-188.
- Fiorentini L, **Sala A**, Hansen K, Cosimi G, Palumbo V, 2004. Comparison between model testing and full-scale trials of new trawl design for Italian bottom fisheries. *Fisheries Science*, 70: 349-359.
- Sala A**, Azzali M, Russo A, 2002. Krill of the Ross Sea: distribution, abundance and demography of *Euphausia superba* and *Euphausia crystallorophias* during the Italian Antarctic Expedition (January-February 2000). *Scientia Marina*, 66(2): 123-133.
- Fabi G, **Sala A**, 2002. An assessment of biomass and diel activity of fish at an artificial reef (Adriatic sea) using stationary hydroacoustic technique. *ICES Journal of Marine Science*, 59(2): 411-420.
- Fiorentini L, Dremière PY, Leonori I, **Sala A**, Palumbo V, 1999. Efficiency of the bottom trawl used for the Mediterranean International Trawl Survey (MEDITS). *Aquatic Living Resources*, 12(3): 187-205.
- Dremière PY, Fiorentini L, Cosimi G, Leonori I, **Sala A**, Spagnolo A, 1999. Escapement from the main body of the bottom trawl used for the Mediterranean International Trawl Survey (MEDITS).

Selected publications (not ISI)

Lucchetti A, **Sala A**, 2011. Experimental low-cost tool to reduce biofouling in oyster longline culture. *In* Jun Chan and Shing Wong (eds) *Biofouling: Types, Impact and Anti-Fouling*. Nova Science Publishers: 323-336.

Lucchetti A, Palumbo V, Perdichizzi F, Rinelli P, **Sala A**, 2008. EC REG. 1967/2006: is square-mesh better selective than larger mesh-size? Comparative experiment in Sicilian trawl fisheries. *Biol. Mar. Medit.*, XV(1): 338-339.

Lucchetti A, Palumbo V, Antolini B, Affronte M, Clò S, **Sala A**, 2008. Reduction of loggerhead turtle (*Caretta caretta*) bycatch in Mediterranean bottom trawl fisheries. *Biol. Mar. Medit.*, XV(1): 336-337.

Sala A, Cosimi G, Palumbo V, 2002. Sampling catches of *Engraulis encrasicolus* and *Sardina pilchardus* in relation with temperature and fishing depth (Adriatic Sea). *Biol. Mar. Medit.* IX(1): 96-104.

Fiorentini L, Cosimi G, **Sala A**, Leonori I, Palumbo V, 1998. Further observations on the performance of the fishing gears used for demersal stock assessment in Italy. *Biol. Mar. Medit.*, V(3): 156-165.

Fiorentini L, Cosimi G, Leonori I, **Sala A**, Palumbo V, 1998. Comparison of the performances of some Italian bottom trawls. *Biol. Mar. Medit.*, V(3): 802-812.

Bombace G, Fabi G, Leonori I, **Sala A**, Spagnolo A, 1998. Evaluation of fish biomass of an artificial reef in the Adriatic sea through acoustic methodology. *Biol. Mar. Medit.*, V(3): 1844-1854.

Fiorentini L, Cosimi G, **Sala A**, Palumbo V, 1994. Characteristic and performance of the fishing gears used for demersal stock assessment in Italy. *Biol. Mar. Medit.*, I(2): 115-134.

Divulgative publications

De Carlo F, Lucchetti A, Virgili M, Magrini P, **Sala A**, 2010. Application of the Side Scan Sonar technology for the study of the trawl performance and the bottom trawl impact on the seabed. *The Fishery News Sheet*, 57(6): 14-15.

Lucchetti A, Acerra V, Canduci G, Costantini I, De Carlo F, Virgili M, **Sala A**, 2010. Reduction of loggerhead turtle (*Caretta caretta*) bycatch in Mediterranean bottom trawl fisheries. *The Fishery News Sheet*, 57(5): 13-14.

Sala A, Lucchetti A, De Carlo F, Canduci G, Virgili M, d'Arc Prat Farran J, Antonijuan J, 2010. Performance and impact on the seabed of an existing and an experimental otterboard: comparison between model testing and full scale sea trial. *The Fishery News Sheet*, 57(5): 14-15.

Lucchetti A, Costantini I, De Carlo F, Virgili M, **Sala A**, 2010. Low-cost tool to reduce biofouling in oyster longline culture. *The Fishery News Sheet*, 57(5): 15-16.

Lucchetti A, **Sala A**, 2010. Appraisal of the performances and impact of the fishing gears using a Side scan sonar technology. *The Fishery News Sheet*, 57(4): 18-19.

Sala A, Lucchetti A, 2009. International meeting on environmental marine researches. *The Fishery News Sheet*, 56(2): 4 (in Italian).

Lucchetti A, **Sala A**, 2009. Square-mesh trials. *Agricole, Pesca & Acquacoltura – Il Sole 24 Ore*, Nr. 19: 16 pp.

Sala A, Lucchetti A, Palumbo V, Giuliani G, 2008. Technological innovations for the Energy saving in fishery. *The Fishery News Sheet*, 55(5): 6-7 (in Italian).

Sala A, Azzali M, Russo A, De Felice A, Lucchetti A, 2008. Results of a survey on krill, environment and predators in CCAMLR division 88.1 in the Austral summer 2003-2004. *GLOBEC International Newsletter*, April 2008: 69-70.

Lucchetti A, **Sala A**, 2007. Un network per la conservazione delle tartarughe marine in Italia: risultati preliminari delle prove eseguite con TEDs (Turtle Excluder Devices). *Cetacea Informa*, XV(28): 11-14.

Cosimi G, Leonori I, **Sala A**, Palumbo V, 2001. Principali Attrezzi per la Pesca professionale Marittima (Sistematica e Normativa). *In* Gramitto ME (eds) *La gestione della Pesca Marittima in Italia, fondamenti tecnico-biologici e normativa vigente*. Consiglio Nazionale delle Ricerche, Monografie scientifiche (Serie Scienze e tecnologie dell'Ambiente), Roma: 239-266.

Sala A, Speranza S, 1993. The local inshore fishery in the Compartment of Ancona. The Fishery News Sheet, 40(12): 13-17 (in Italian).

Patents and/or Patent Cooperation Treaty

Grilli R, Lucchetti A, Palumbo V, **Sala A**, 2007. Light beam trawl with a rigid frame and tickler chains used for demersal fishing. *Patent Deposit nr. MC2007U000024*.

Sala A, Antolini B, Lucchetti A, Palumbo V, Giuliani G, 2007. Low-cost tool to reduce biofouling in oyster longline culture. *Patent Deposit nr. AN2007U000026*.

Sala A, Buglioni G, Lucchetti A, Palumbo V, 2009. Instrument for measuring the bending stiffness moment. *Patent Deposit nr. AN2009A000051*.

JRC Scientific and Technical Reports (EUR collection)

Casey J, Abella JA, Andersen J, Bailey N, Bertignac M, Cardinale M, Curtis H, Daskalov G, Delaney A, Di Natale A, Döring R, Garcia Rodriguez M, Gascuel D, Graham N, Gustavsson T, Jennings S, Kenny A, Kirkegaard E, Kraak S, Kuikka S, Malvarosa L, Martin P, Motova A, Murua H, Nowakowski P, Prelezio R, **Sala A**, Somarakis S, Stransky C, Theret F, Ulrich C, Vanhee W, Van Oostenbrugge H, 2010. Committee for Fisheries. 35th Plenary meeting report of the Scientific, Technical and Economic Committee for fisheries (PLEN-10-03). Publications office of the European Union, Brussels, EUR – Scientific and Technical Research series – ISSN 1831-9424, ISBN 978-92-79-18740-7, doi:10.2788/52748, EUR 24626 EN, 214 pp.

Casey J, Abella JA, Andersen J, Bailey N, Bertignac M, Cardinale M, Curtis H, Daskalov G, Delaney A, Di Natale A, Döring R, Garcia Rodriguez M, Gascuel D, Graham N, Gustavsson T, Jennings S, Kenny A, Kirkegaard E, Kraak S, Kuikka S, Malvarosa L, Martin P, Motova A, Murua H, Nowakowski P, Prelezio R, **Sala A**, Somarakis S, Stransky C, Theret F, Ulrich C, Vanhee W, Van Oostenbrugge H, 2011. Committee for Fisheries. 36th Plenary meeting report of the Scientific, Technical and Economic Committee for fisheries (PLEN-11-01). Publications office of the European Union, Brussels, EUR – Scientific and Technical Research series – ISSN 1831-9424, ISBN 978-92-79-20170-7, doi:10.2788/15586, EUR 24806 EN, 77 pp.

Casey J, Abella JA, Andersen J, Bailey N, Bertignac M, Cardinale M, Curtis H, Daskalov G, Delaney A, Di Natale A, Döring R, Garcia Rodriguez M, Gascuel D, Graham N, Gustavsson T, Jennings S, Kenny A, Kirkegaard E, Kraak S, Kuikka S, Malvarosa L, Martin P, Motova A, Murua H, Nowakowski P, Prelezio R, **Sala A**, Somarakis S, Stransky C, Theret F, Ulrich C, Vanhee W, Van Oostenbrugge H, 2011. Committee for Fisheries. 37th Plenary meeting report of the Scientific, Technical and Economic Committee for fisheries (PLEN-11-02). Publications office of the European Union, Brussels, EUR – Scientific and Technical Research series – *in press*, 92 pp.

Selected papers in Congress Proceedings

Buglioni, G, Notti E, **Sala A**, 2011. E-Audit: Energy use in Italian fishing vessels. *In* Rizzuto & Guedes Soares (eds) Sustainable maritime transportation and exploitation of sea resources. Taylor & Francis Group, London, ISBN 978-0-415-62081-9: 1043-1047.

Lucchetti A, Virgili M, De Carlo F, **Sala A**, 2011. Assessment of fishing gear impact and performance using sidescan sonar technology. *In* Rizzuto & Guedes Soares (eds) Sustainable maritime transportation and exploitation of sea resources. Taylor & Francis Group, London, ISBN 978-0-415-62081-9: 1049-1054.

Sala A, De Carlo F, Buglioni G, 2010. Coriolis Fuel Mass Flow Metering for Fishing Vessels. Paper proceedings of the First International Symposium on Fishing Vessel Energy Efficiency E-Fishing, Vigo, Spain, May 2010: 5 pp.

Sala A, Buglioni G, Lucchetti A, 2010. Fuel saving otterboards. Paper proceedings of the International Symposium on Energy use in Fisheries: Improving Efficiency and Technological Innovations from a Global Perspective, Seattle, USA, November 2010: 4 pp.

Sala A, 2010. Application of Turtle Excluder Devices (TEDs) for the reduction of accidental bycatches of protected species in the Mediterranean trawl fisheries. *In* Lancianese V. (eds) Proceedings of the National Conference "Marine biodiversity, Adriatic: a Sea of Turtles": 79 pp.

Sala A, Hansen K, Lucchetti A, Palumbo V, 2008. Energy saving trawl in Mediterranean demersal fisheries. *In* Guedes Soares & Kolev (eds) Ocean Engineering and Coastal Resources. Taylor & Francis Group, London, ISBN 978-0-415-45523-7: 961-964.

Lucchetti A, **Sala A**, 2008. Loggerhead Turtle (*Caretta caretta*) bycatch, case study: Mediterranean Sea. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology

and Fish Behaviour, Dublin (Ireland), ICES CM 2008/FTC:02 Ref. WGECO: 265 pp.

Folch A, Prat J, Antonijuan J, Manuel A, **Sala A**, Sardà F, 2008. Simulation of bottom trawl fishing gears. A simplified physical model. In Guedes Soares & Kolev (eds) Ocean Engineering and Coastal Resources. Taylor & Francis Group, London, ISBN 978-0-415-45523-7: 921-927.

Lucchetti A, **Sala A**, 2007. Review of the fishing gear management measures in the Mediterranean Sea. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology and Fish Behaviour, Dublin (Ireland), ICES CM 2007/FTC:06 Ref. ACFM: 197 pp.

Lucchetti A, **Sala A**, Affronte M, 2007. Turtle Excluder Devices Experiments in the Central Adriatic Sea. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology and Fish Behaviour, Dublin (Ireland), ICES CM 2008/FTC:02 Ref. WGECO: 265 pp.

Sala A, Buglioni G, Lucchetti A, Palumbo V, 2006. The influence of some netting material properties on PA codend size selectivity of Mediterranean bottom trawl. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology and Fish Behaviour, Rome (Italy), ICES CM 2006/FTC:06: 180 pp.

Sala A, Piccinetti C, Ferretti M, Buglioni G, Lucchetti A, Palumbo V, Ungaro N, 2005. Selectivity comparison of diamond- and square-mesh codends of Mediterranean bottom trawl. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology and Fish Behaviour, Rome (Italy), ICES CM 2005/B.04 Ref. FAO: 283 pp.

Sala A, O'Neill FG, Buglioni G, Cosimi G, Palumbo V, Lucchetti A, 2004. Development of an experimental method for quantifying the resistance to opening of netting panels. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology and Fish Behaviour, Gdynia (Poland), ICES CM 2004/B.05 Ref. ACE: 189 pp.

Azzali M, Russo A, **Sala A**, De Felice A, Catalano B, 2004. Preliminary results of a survey on krill, environment and predators carried out in December 2003 and in January 2004 (Project 8.4). CCAMLR WG-EMM-04/71 Siena (Italy), 12-23 July 2004: 23 pp.

Sala A, 2002. Development of fuel saving bottom trawl. Report of the ICES Fisheries Technology Committee Working Group on Fishing Technology and Fish Behaviour, Sète (France), ICES CM 2002/B.01: 53 pp.

Azzali M, **Sala A**, Manoukian S, 2002. Design of the Italian acoustic survey in the Ross Sea for the Austral summer 2003/04. CCAMLR WG-EMM-02/31 Big Sky (Montana, USA), 5-16 August 2002: 15 pp.

Azzali M, **Sala A**, Brancato G, 2000. Summer distribution, abundance and structure of krill populations (*Euphausia superba* and *Euphausia crystallorophias*) sampled in the western Ross Sea (January-February 2000). CCAMLR WG-EMM-00/38 Taormina (Italy), 17-28 July 2000.

Scientific Project Reports

Sala A, Bertram V, Buglioni G, Caslake RG, De Carlo F, Lucchetti A, Notti E, O'Neill FG, Priour D, Ruiz V, Sarasquete A, Valdemarsen JW, van Marlen B, Virgili M, 2011. Information Collection in Energy Efficiency for Fisheries (ICEEF). Final Project Report to the European Commission - Joint Research Centre (JRC), Tender Contract IPSC/2010/04/03/NC Nr. 255849: 188 pp.

Fortuna CM, Mazzola A, **Sala A**, 2010. Evaluation of the accidental by-catch of protected species in pair-boat trawling fisheries (BYCATCH-III). Final Report to the Italian Ministry of Agriculture and Forestry (Project MIPAF n. 6-B-4): 136 pp.

Sala A, Messina G, Lucchetti A, Notti E, De Carlo F, Palumbo V, Van Vugt H, 2009. Energy Saving in Fisheries (ESIF). In Van Marlen (Eds), Final Project Report FISH/2006/17 LOT3: 425 pp.

Lucchetti A, **Sala A**, 2007. Development of an innovative technology for the reduction of bio-fouling oyster culture (Wave-Brush). Final Report to the Marche Regional Authority, Fishery and Hunt directorate, (Project SFOP n. 01 MI030706): 47 pp.

Priour D, O'Neill F, **Sala A**, Chevaillier P, Herrmann B, 2006. PREMECS-II: Development of predictive model of cod-end selectivity. Final Report to the European Commission of the RTD project Q5RS-2002-01328: 265 pp.

Lucchetti A, Buglioni G, **Sala A**, 2006. Square-mesh codend selectivity in commercial bottom trawl fisheries of Marche Region. Final Report to the Marche Regional Authority, Fishery and Hunt directorate, (Project SFOP n. 05 MI 020505): 47 pp.

Buglioni G, Lucchetti A, **Sala A**, 2006. Development of single-boat pelagic trawl for a responsible

management of the marine resources. *Final Report to the Marche Regional Authority, Fishery and Hunt directorate, (Project SFOP n. 03 MI 020505): 37 pp.*

Sala A, Buglioni G, Lucchetti A, Cosimi G, Palumbo V, 2005. Environmental impact reduction of the Italian bottom trawling: twin trawls experiment. *Final Report to the Marche Regional Authority, Fishery and Hunt directorate, (Project SFOP n. 03 MI 210604 Bis): 97 pp.*

Ferretti M, **Sala A**, Piccinetti C, Ungaro N, 2005. Selectivity of Italian bottom trawl with diamond- and square-mesh codends. *Final Report to the Italian Ministry of Agriculture and Forestry (Project MIPAF n. 6-B-4): 149 pp.*

Azzali M, Catacchio S, Kalinowski J, **Sala A**, 2000. Assessment of the living resources in the Ross Sea (krill, Minke whales, fish and other krill predators), of their interactions and relations with environment (ice dynamics). *In: Final Report of the Italian Antarctic Expedition (January-February 2000). Antarctic project, Ant 2000/01: 281-293.*

Sala A, 1998. Descriptive Elements of the Environmental in the four fishing trips of the ESMED project. *In Fiorentini L et al. (1998) IRPEM-EC Study 95/29 – Final Report: 85-90.*

Fiorentini L, Dremière PY, Coail JY, Cosimi G, Leonori I, Palumbo V, **Sala A**, Spagnolo A, Vacherot JP, 1998. Efficacy and selectivity of the trawl used for the MEDITS project. *IRPEM-EC Study 95/29 – Final Report: 120 pp.*

Bombace G, Fabi G, **Sala A**, Spagnolo A, 1998. Experiments for the assessment of fish biomass in artificial reef of protected marine zone. *Report to the Italian Ministry of Agriculture and Forestry, Fishery and Aquaculture Direct.: 79 pp.*

Fiorentini L, Cosimi G, **Sala A**, Leonori I, Palumbo V, 1996. Effect of tow duration on Medits results. *Medits Meeting Report Paris, 28-30 November. Annex III: XVI-XVII.*

Fiorentini L, Cosimi G, **Sala A**, Palumbo V, Leonori I, 1996. Intercalibration des campagnes internationales de chautage démersal en Méditerranée centrale. *IRPEM-CE project MED/93/015 – Final Report: 59 pp.*

Artegiani A, **Sala A**, Testa G, Dell'Amico F, 1995. Physical oceanographic conditions in the Southern Pacific Ocean and in the Western Ross Sea *In: Final Report of the Italian Antarctic Expedition (January-February 1995). Antarctic project, Ant 95/02: 424-427.*

Fiorentini L, Cosimi G, **Sala A**, Palumbo V, 1993. Measurement of the hydrodynamic parameters of the fishing gears used for demersal stock assessment in Italy, in order to produce comparable results. *Report to the Italian Ministry of Merchant Marine, Fishery Direct. 151 pp.*

Ancona, 07/10/2011

