

# Laura Giuliano, PhD (1996)

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## CIESM Director of Science

### Profile

Director of Science at the International Mediterranean Science Commission (CIESM), with more than twenty years experience in research and policy. Her scientific experience targets marine microbial natural patterns in relation to oceanographic and geological driving forces, and the potential industrial applications associated to microbial adaptation mechanisms (i.e. Marine biotechnology). For this aim she developed new techniques based on the combination of cultivation and molecular methodologies

### Expertise

Having lead various international (mainly EU) scientific projects, she has more recently contributed various strategic panels (OCDE, IUCN) and side-events (EU Parliament) at the interface between science and policy, especially targeting legal and socio-economic issues related to the development of the marine biotechnology sector. She has published more than 60 peer-reviewed scientific articles (including on Science, Nature, PNAS) and has been Guest Editor of various international peer-reviewed scientific journals (*FEMS Microbiology and Ecology*, *Deep-Sea Research Part I*, *Marine Biotechnology*; *Marine Genomics*).

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### Career & Experience

CIESM - The Mediterranean Science Commission

**Director of Science**, at date

In charge to enhance dialogue among 22 Member States around innovative research topics, and to strengthen CIESM relations with other inter-governmental Commissions / networks of Funding Agencies. Her tasks range from the conception and organization of multidisciplinary oceanographic campaigns to the advising of International and National Funding Agencies on Mediterranean common marine research priorities and regional specificities. Directly responsible for collaboration with ICES, EU, ESF-MB, EUCC, the WATERBORNE platforms (MARCOM+, EU CSA, fp7), and, more recently, OCDE. Fully engaged in the organization of CIESM Congresses (the last edition in November 2013). She built the CIESM programme on biotechnology encompassing policy and legal aspects on IPRs related issues and equitable sharing of benefits derived from 'bioprospecting' in the Mediterranean. This action evolved along research workshops, policy debates, and direct interventions at UN level. Dr. Giuliano works on the harmonization of research and policy practices, which includes efforts in benchmarking Mediterranean national strategies, facilitating debates on common strategic options, spreading base-line protocols, advocating the sharing of information (including research data) through open databases.

CNR, The Italian National Research Council

**Director of the IAMC, CNR, 2014-2016**

**Research Director**, 2011

**Researcher Head of Laboratory**, 2007

**Researcher**, 2001

Member of the Advisory Board of the Italian Ministry of Research, SC2 (Horizon 2020). Director at CNR (IT). Previously appointed Head of the Horizontal Axes 'Sustainability of Earth and Aquatic environments' (integrating 16 research axes and 87 researchers) at the Direction of the Dept. "Earth and Environment", and major responsible for its operational strategy and future perspectives at national and international level. Member of national and international science evaluation committees for the selection of proposals to be granted (EU fp6, fp7; INCO 2003, 2011; PNEC-Fr 2001-2004) or the evaluation of research laboratory activities (CNRS, FR). Italian Ambassador for ISME. Referee and Guest Editor of various international journals (*FEMS*; *Deep-Sea Res.*; *Microbial Biotechnology*). Author of more than 60 scientific articles in peer-reviewed journals (including PNAS, Science, Nature).

**Publications**

71. La Cono V., Ruggeri G., Azzaro M., Crisafi F., Decembrini F., Denaro R., La Spada G., M Monticelli L.S., Smedile F., Giuliano L., Yakimov M.M. (2018) Contribution of Bicarbonate Ass Carbon Pool Dynamics in the Deep Mediterranean Sea and Cultivation of Actively Nitrifying Fixing Bathypelagic Prokaryotic Consortia *Frontiers in microbiology* (9), 3
70. Giuliano L., Labes A., Reich M., Verde C. (2017) Navigating the Future: Cross-sector Marine Marine genomics (36), 1-2.
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68. La Cono V., Ruggeri G., Azzaro M., Crisafi F., Decembrini F., Denaro R., La Spada G., Maimone G., Monticelli L. S., Smedile F., Giuliano L., Yakimov M.M. (2018) Contribution of Bicarbonate Assimilation to Carbon Pool Dynamics in the Deep Mediterranean Sea and Cultivation of Actively Nitrifying and CO<sub>2</sub>-Fixing Bathypelagic Prokaryotic Consortia *Front. Microbiol.* 3 (9) doi: 10.3389/fmicb.2018.00003
67. Crisafi F, Genovese M., Smedile, F., Russo D., Catalfamo M., Yakimov M.M., Giuliano L., Denaro R. (2016) Bioremediation technologies for polluted seawater sampled after an oil-spill in Taranto Gulf (Italy): A comparison of biostimulation, bioaugmentation and use of a washing agent in microcosm studies. *Marine Pollution Bulletin* 106 (1), 119-126
66. Yakimov M.M., Crisafi F., Messina E., Smedile F., Lopatina A., Denaro R., Pieper D.H., Golyshin P.N., Giuliano L. (2016) Analysis of defence systems and a conjugative IncP-1 plasmid in the marine polyaromatic hydrocarbons-degrading bacterium *Cycloclasticus* sp. 78-ME *Environmental Microbiology Reports* (accepted online: DOI: 10.1111/1758-2229.12424)
65. Gentile G., Bonsignore M., Santisi S., Catalfamo M., Giuliano L., Genovese L., Yakimov M.M., Denaro R., Genovese M., Cappello S. (2016) Biodegradation potentiality of psychrophilic bacterial strain *Oleispira antarctica* RB-8 T. *Marine pollution bulletin* 105 (1), 125-130
64. Giordano D., Coppola D., Russo R., Denaro R., Giuliano L., Lauro F.M., di Prisco G., Verde C. (2015) Chapter Four-Marine Microbial Secondary Metabolites: Pathways, Evolution and Physiological Roles. *Advances in microbial physiology* 66, 357-428
63. Crisafi F, Denaro R, Yakimov M.M., Felice M.R., Giuliano L., Genovese L. (2015) NaCl concentration in the medium modulates the secretion of active EmpA protease in *Vibrio anguillarum* at post transcriptional level. *Journal of applied microbiology* 119 (6), 1494-1501
62. Messina E., Denaro R., Crisafi F., Smedile F., Cappello S., Genovese M., Genovese L., Giuliano L., Russo D., Ferrer M., Golyshin P.N., Yakimov, M.M. (2015). Genome sequence of obligate marine polycyclic aromatic hydrocarbons-degrading bacterium *Cycloclasticus* sp. 78-ME isolated from petroleum deposits of the sunken tanker Amoco Milford Haven, Mediterranean Sea. *Marine Genomics* (25): 11-13.
61. Cappello S., Calogero R., Santisi S., Genovese M., Denaro R., Genovese L., Giuliano L., Mancini G., Yakimov, M.M. (2015) Bioremediation of oil polluted marine sediments: A bio-engineering treatment. *International Microbiology* 18 (2), 127-134
60. La Cono V., Arcadi E., La Spada G., Barreca D., Laganà G., Bellocco E., Catalfamo M., Smedile F., Messina E., Giuliano L., Yakimov, M.M. (2015) A three-component microbial consortium from deep-sea salt-saturated anoxic lake thetis links anaerobic glycine betaine degradation with methanogenesis. *Microorganisms* 3 (3), 500-517

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58. Santisi S., Cappello S., Catalfamo M., Mancini G., Hassanshahian M., Genovese L., Giuliano L., Yakimov, M.M. (2015) Biodegradation of crude oil by individual bacterial strains and a mixed bacterial consortium. *Brazilian Journal of Microbiology* 46 (2), 377-387
57. La Cono V., Smedile F., La Spada G., Arcadi E., Genovese M., Ruggeri G., Lucrezia Genovese, Giuliano L., Yakimov, M.M. (2015) Shifts in meso- e bathypeagic archaea communities composition during recovery and short term handling of decompressed deep-sea samples. *Environmental microbiology reports* 7 (3), 450-459
56. Genovese M., Crisafi F., Denaro R., Cappello S., Russo D., Calogero R., Santisi S., Catalfamo M., Modica A., Smedile F., Genovese L., Golyshin P.N., Giuliano L., Yakimov, M.M. (2015) Effective bioremediation strategy for rapid in situ cleanup of anoxic marine sediments in mesocosm oil spill. The metabolic pathways and environmental controls of hydrocarbon biodegradation in marine ecosystems. 146
55. Yakimov M.M., La Cono V., La Spada G., Bortoluzzi G., Messina E., Smedile F., Arcadi E., Borghini M., Ferrer M., Schmitt-Kopplin P., Hertkorn N., Cray J.A., Hallsworth J.E., Golyshin P.N., Giuliano L. (2015) Microbial Community of deep-sea brine Lake Kryos seawater-brine interface is active below the chaotropicity limit of life as revealed by recovery of mRNA. *Environmental microbiology* 17 (2), 364-382
54. Kalogerakis N., Arff, J., Banat IM, Broch O.J., Daffonchio D., Edvardsen, T., Eguiraun H., Giuliano L., Handã A., López-de-Ipiña K., Marigomez I., Martinez I., Øie G., Rojo F., Skjermo J., Zanaroli G., Fava F. (2015) The role of environmental biotechnology in exploring, exploiting, monitoring, preserving, protecting and decontaminating the marine environment. *New biotechnology* 32 (1), 157-167
53. Yakimov MM, V La Cono, M Ferrer, PN Golyshin, L Giuliano (2015) Metagenomics of deep hypersaline anoxic basins. *Encyclopedia of Metagenomics: Environmental Metagenomics*, 341-348
52. Kalogerakis, N., Arff, J., Banat, I.M., Broch, O.J., Daffonchio, D., Edvardsen, T., Eguiraun, H., Giuliano, L., Handã, A., López-de-Ipiña, K., Marigomez, I., Martinez, I., Øie, G., Rojo, F., Skjermo, J., Giulio Zanaroli, G., Fava, F., (2015) The role of environmental biotechnology in exploring, exploiting, monitoring, preserving, protecting and decontaminating the marine environment *New biotechnology* 32 (1), 157-167
51. Cappello, S., Genovese, M., Denaro, R., Santisi, S., Volta, A., Bonsignore, M., Mancini, G., Giuliano, L., Genovese, L., Yakimov, M.M. (2015) Quick stimulation of *Alcanivorax* sp. by bioemulsificant EPS2003 on microcosm oil spill simulation. *Brazilian Journal of Microbiology* 45 (4), 1317-1323
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47. Yakimov M, La Cono V, Slepak VZ, La Spada G, Arcadi E, Messina E, Borghini M, Monticelli LS, Rojo D, Barbas C, Golyshina OV, Ferrer M, Golyshin PN, **Giuliano L** (2013) Microbial life in the Lake Medee, the largest deep-sea salt-saturated formation. *Nature Sci. Rep.* 3:3554
46. La Cono V, La Spada G, Arcadi E, Placenti F, Smedile F, Ruggeri G, Michaud L, Raffa C, De Domenico E, Sprovieri M, Mazzola S, Genovese L, **Giuliano L**, Slepak, VZ, Yakimov, MM. (2013) Partaking of Archaea to biogeochemical cycling in oxygen-deficient zones of meromictic saline Lake Faro (Messina, Italy). *Environ Microbiol* 15(6): 1717-33.
45. Smedile F, Messina E, La Cono V, Tsoy O, Monticelli LS, Borghini M, **Giuliano L**, Golyshin PN, Mushegian A, Yakimov MM (2013) Metagenomic analysis of hadopelagic microbial assemblages thriving at the deepest part of Mediterranean Sea, Matapan-Vavilov Deep. *Environ Microbiol* 15(1):167-82.
44. Giordano D, Rinelli P, Russo A, Sala A, Azzali M, La Spada G, **Giuliano L**, Crisafi E, De Domenico E, Yakimov M. (2011) Phylogenetic relationships of the Antarctic euphausiids inhabiting the Ross Sea and the adjacent regions of southern ocean. *Cahiers de Biologie Marine* 52 (1), pp. 1-11.
43. La Cono V, Smedile F, Bortoluzzi G, Arcadi E, Maimone G, Messina E, Borghini M, Oliveri E, Mazzola S, L'Haridon S, Toffin L, Genovese L, Ferrer M, **Giuliano L**, Golyshin PN, Yakimov MM. (2011). Unveiling microbial life in new deep-sea hypersaline Lake Thetis. Part I: Prokaryotes and environmental settings. *Environ Microbiol.* (8):2250-68.
42. La Cono V, Smedile F, Ferrer M, Golyshin PN, **Giuliano L**, Yakimov MM. (2010) Genomic signatures of fifth autotrophic carbon assimilation pathway in bathypelagic Crenarchaeota. *Microb Biotechnol.* (5):595-606.
41. **Giuliano L**, Barbier M, Briand F. Editorial - preview. *Microb Biotechnol.* (2010) Sep;3(5):489-90.
40. Grossi V, Yakimov MM, Al Ali B, Tapilatu Y, Cuny P, Goutx M, La Cono V, **Giuliano L**, Tamburini C. (2010) Hydrostatic pressure affects membrane and storage lipid compositions of the piezotolerant hydrocarbon-degrading *Marinobacter hydrocarbonoclasticus* strain #5. *Environ Microbiol.* 12(7):2020-33.
39. Yakimov, M.M., La Cono, V., Smedile, F., Ferrer, M., Golyshin, P.N., **Giuliano, L.** (2011). Contribution of crenarchaeal autotrophic ammonia oxidizers to the dark primary production in Tyrrhenian Deep Waters (Central Mediterranean Sea). *The ISME Journal* 5: 945-961.
38. La Cono, V., Smedile, F., Ferrer, M. Golyshin, P.N., **Giuliano, L.**, Yakimov, M.M. (2010) Genomic signatures of fifth autotrophic carbon assimilation pathway in bathypelagic Crenarchaeota. *Microb. Biotechnology* 3 (5): 595-606.
37. Grossi, V., Yakimov, M.M., Al Ali, B., Tapilatu, Y., Cuny, P., Goutx, M., La Cono, V., **Giuliano, L.**, Tamburini, C. (2010). Hydrostatic pressure affects the membrane and storage lipid compositions of the piezotolerant hydrocarbon-degrading *Marinobacter hydrocarbonoclasticus* strain #5. *Env. Microbiol.* 12 (7): 2020-2033.
36. Borin, S., Brusetti L., Mapelli F., D'Auria G.\*, Brusa T., Marzorati M., Rizzi A., Yakimov M., Marty D., De Lange G. J., Van der Wielen P., Bolhuis H., McGenity T. J., Polymenakou N. P., Malinverno E., **Giuliano L.**, Corselli C., Daffonchio D. (2009). Sulfur cycling primarily drives microbial colonisation

of Urania deep hypersaline basin, the most sulfidic marine body on Earth. PNAS 106 (23): 9151-6.

35. Briand, F. **L. Giuliano (2009)** Multi-disciplinary forays into the southern Tyrrhenian Sea, western Mediterranean – CIESM/SUB cruises 1 and 2. Editorial. Deep Sea Res. II Vol. 56, Issues 11-12: 675.
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33. Yakimov, M.M., V. La Cono, R. Denaro, G. D’Auria, F. Decembrini, K. Timmis, P.N. Golyshin, **L. Giuliano. (2007)**. Primary producing prokaryotic communities of brine, interface and seawater above the halocline of deep anoxic lake L’Atalante, Eastern Mediterranean Sea. The ISME Journal 1: 743-755
32. Hallsworth, J.E., M.M. Yakimov, P.N. Golyshin, J.L.M. Gillion, G. D’Auria, F. de Lima Alves, V. La Cono, M. Genovese, B.A. McKew, S.L. Hayes, G. Harris, L. Giuliano, K.N. Timmis, T.J. McGenity **(2007)**. Limits of life in MgCl<sub>2</sub>-containing environments: chaotropy defines the window. **Environm Microbiol** 9(3): 801-13
31. Cappello, S., G. Caruso, D. Zampino, L.S. Monticelli, G. Maimone, B. Tripodo, R. Denaro, M. Troussellier, M.M. Yakimov, **L. Giuliano (2007)**. Microbial community dynamics during assays of a harbour oil spill bioremediation: a microscale simulation study. J Appl Microbiol 102(1): 184-94.
30. Yakimov M. M., **L. Giuliano**, S. Cappello, R. Denaro, P. N. Golyshin **(2007)**. Microbial Community of a Hydrothermal Mud Vent Underneath the Deep-Sea Anoxic Brine Lake Urania (Eastern Mediterranean). **Orig. Life Evol. Biosph.**, 37(2):177-188 (doi 10.1007/s11084-006-9021-x)
29. Cappello S, Denaro R, Genovese M, **Giuliano L**, Yakimov MM. **(2007)**. Predominant growth of *Alcanivorax* during experiments on "oil spill bioremediation" in mesocosms. Microbiol Res, 162 (2): 185-190
28. Gentile G., **L. Giuliano**, G. D’Auria, F. Smedile, M. Azzaro, M. De Domenico, M. M. Yakimov **(2006)** Study of bacterial communities in Antarctic coastal waters by a combination of 16S rRNA and 16S rDNA sequencing. Env. Microbiol. (8) 12: 2150–2161
27. Daffonchio, D., S. Borin, T. Brusa, L. Brusetti, P. W.J.J. van der Wielen, H. Bolhuis, G. D’Auria, M. M. Yakimov, **L. Giuliano**, D. Marty, T.J. McGenity, J.E. Hallsworth, A. Sass, K.N. Timmis, A. Tselepides, G.J. de Lange, A. Hübner, J. Thomson, S.P. Varnavas, F. Gasparoni, H.W. Gerber, E. Malinverno, C. Corselli & Biodeep Scientific Party **(2006)** "Stratified prokaryote network in the oxic-anoxic transition of a deep sea halocline". Nature 440: 203-207.
26. Yakimov M. M., S. Cappello, E. Crisafi, A. Tursi, A. Savini, C. Corselli, S. Scarfi, **L. Giuliano (2006)** « Phylogenetic survey of metabolically active microbial communities associated with the deep-sea coral *Lophelia pertusa* from the Apulian plateau, central Mediterranean sea » Deep Sea Res I. 53 : 62-75.
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21. Yakimov M.M., G. Gentile, V. Bruni, S. Cappello, V. Bonasera, P.N. Golyshin and **L. Giuliano (2004)** *Natural and oil-degrading bacterial communities in a coastal area of Ross Sea (Antarctica) and characterization of cultured cold-adapted hydrocarbonoclastic bacteria*. FEMS Microbiol. Ecol. 49 (3): 419-432.
20. Caruso G., Denaro R., Genovese M., **Giuliano L.**, Mancuso M., Yakimov M.M. **(2004)** *New methodological strategies for detecting bacterial indicators*. Chemistry and Ecology : 20 (3): 167-181.
19. Luna G.M., A. Dell'Anno, **L. Giuliano**, R. Danovaro **(2004)** *Bacterial diversity in deep Mediterranean sediments: relationship with the active bacterial fraction and substrate availability* Environm. Microbiol. 6(7): 745-753.
18. Yakimov M.M., **L. Giuliano**, R. Denaro, E. Crisafi, T.N. Chernikova, W.-R. Abraham, H. Lünsdorf, K.N. Timmis, P.N. Golyshin **(2004)**. *Thalassolitus oleivorans gen. nov. sp. nov., a new marine bacterium confined to the utilization of hydrocarbons*. Int. J. Syst. Evol. Microbiol. 54: 141-148.
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16. Gentile G.\*, V. Bonasera, C. Amico, **L. Giuliano** and M.M. Yakimov **(2003)** *Shewanella livingstonensis GA-22, a psychrophilic hydrocarbonoclastic Antarctic bacterium producing polyunsaturated fatty acids*. J. Appl. Microbiol. 95(5): 1124-1133.
15. Yakimov M.M., **L. Giuliano**, G. Gentile, E. Crisafi, T.N. Chernikova, W.-R. Abraham, H. Lünsdorf, K. N. Timmis, P. N. Golyshin **(2003)**. *Oleispira antarctica gen. nov., sp. nov., a novel hydrocarbonoclastic marine bacterium isolated from Antarctic coastal sea water*. Int. J. Syst. Evol. Microbiol. 53: 779-785
14. Yakimov, M.M., **L. Giuliano**, E. Crisafi, T.N. Chernikova, K.N. Timmis, P.N. Golyshin **(2002)**. *Microbial community of a saline mud volcano at San Biagio-Belpasso, Mt. Etna (Italy)*. Environm. Microbiol 4/5: 249-256. (3.649)
13. Yakimov M.M., **L. Giuliano**, K.N. Timmis, P.N. Golyshin **(2001)** *Upstream-independent ribosomal RNA amplification Analysis (URA): a novel approach to characterize the diversity and structure of natural microbial communities*. Environm Microbiol 3: 662-666.
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10. Yakimov M.M., W.-R. Abraham, H. Meyer, **Giuliano L.**, P.M. Golyshin, **(1999)**. *Structural characterization of lichenysin A components by fast*

*atom bombardment (FAB) tandem mass spectrometry (MS/MS)*. BBA - Biochimica et Biophysica Acta, 1438: 273-280.

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  8. Yakimov M.M., **L. Giuliano**, V. Bruni, S. Scarfi', P.M. Golyshin. **(1999)**. *Characterization of antarctic hydrocarbon-degrading bacteria capable to produce bioemulsifiers*. The New Microbiologica. 22: 249-256.
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  5. **Giuliano L.**, P. Furci, M. De Domenico, V. Bruni, L. Salomone, V. Alonzo. **(1999)**. *Variability of some microbial parameters in relation to the hydrological features of the water column in the Eolian basin (Southern Tyrrhenian Sea)*. The New Microbiol. 22: 139-150.
  4. **Giuliano L.**, E. De Domenico, M. De Domenico, M.G. Höfle, M.M.Yakimov. **(1999)**. *Identification of Culturable oligotrophic bacteria within naturally occurring marine bacterioplankton communities of the Ligurian Sea by 16S rRNA sequencing and probing*. Microb. Ecol. 37: 77-85
  3. Yakimov M.M., A. Kröger, T.N. Slepak, **L. Giuliano**, K.N.Timmis, P.M. Golyshin **(1998)**. *A putative lichenysin A synthetase operon in Bacillus licheniformis: initial characterization*. BBA Biochim. Biophys. Acta, 1399: 141-153.
  2. Talbot V., **L. Giuliano**, V. Bruni, M. Bianchi. **(1997)**. *Bacterial abundance, production and ectoproteolytic activity in the Strait of Magellan Mar*. Ecology Progr. Ser., 154: 293-302.
  1. Bianchi A., **L. Giuliano (1996)**. *Enumeration of viable bacteria in the Marine Pelagic Environment* Appl. Environm. Microbiol., 62(1): 174-177.
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## Honors

<b>JPI Oceans, EU:</b>	<b>2012-</b>
<b>2015</b>	
Elected Member of the Strategic Advisory Board of the Joint Programming Initiative Healthy and Productive Seas and Oceans ( <i>appointed for a term of 3 years</i> )	
<b>EFB, EU:</b>	<b>since</b>
<b>2013</b>	
Elected Member of the Experts Group of the European Federation of Biotechnology - Sect. Environmental Biotechnology	
<b>ISME, the International Society of Microbiology, US:</b>	<b>2003-</b>
<b>2005</b>	
Invited Member of the International Board of Ambassadors of the International Society for Microbial Ecology (ISME). ( <i>Withdrawal related to major CIESM commitments</i> ).	