



Giulio De Leo

Professor of Biology and Senior Fellow at the Woods Institute for the Environment

 Curriculum Vitae available Online

Bio

BIO

I am a theoretical ecologist by formation, I am generally interested in investigating factors and processes driving the dynamics of natural and harvested populations and in understanding how to use this knowledge to inform practical management.

In recent years I have been particularly interested in investigating factors and processes that provide resilience of natural or managed population to natural and anthropogenic stressors, environmental shocks and climate change. I study resilience from two very different points of view: on the one hand, I have focused my attention on populations that prove to be resilient despite our effort to control or eradicate them, namely parasitic and infectious diseases. On the other hand, I have been working extensively to understand how to increase resilience of population of commercial or conservation interest to extensive harvesting, environmental shocks, climate change and land use change.

I have been working on a number of theoretical and applied problems ranging from the conservation of the European eel to the sustainable management of the abalone fishery in Baja California in the face of climate change, the biocontrol of schistosomiasis in west Africa and the relationship between resource exploitation, infectious diseases and poverty traps.

ACADEMIC APPOINTMENTS

- Professor, Biology
- Senior Fellow, Stanford Woods Institute for the Environment
- Professor, Biology
- Member, Bio-X
- Senior Fellow, Stanford Woods Institute for the Environment

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Faculty Fellow, Stanford Center for Innovation in Global Health (2015 - present)

PROFESSIONAL EDUCATION

- Ph.D., University of Parma & University of Ferrara , Ecology (1993)
- B.E. & M.Sc., Politecnico di Milano , Civil and Environmental Engineering (1989)

LINKS

- My Lab web site: <https://deleolab.stanford.edu/>
- Program for Disease Ecology, Health and the Environment: <https://ecohealthsolutions.stanford.edu/>

- video documentary on our project in Senegal: <https://www.biographic.com/protected-by-prawns/>
- The Upstream Alliance: <http://www.theupstreamalliance.org/>
- Collaborative Sustainability Research in Coastal Ecosystems: <https://upwelling.stanford.edu/>
- web site for k-12 education in ocean acidification: <https://kidsandclimate.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am a population biologist and my primary research interest is the use of ecological theory, particularly life history-based models, in population dynamics and management. I make use of advanced mathematical and computational techniques to analyse a wide variety of ecological problems ranging from the identification of basic first-principles in the ecology of infectious diseases, to the analysis of costs and benefits of alternative policies for natural resource management in a multi-objective, multi-attribute framework, to the investigation of population dynamics and extinction risk in endangered populations. I dedicated a considerable effort to assess the effect of anthropogenic pressures as well as of ecological and environmental heterogeneities - including temperature, oxygen and pH anomalies - on population dynamics and management of marine resources and to estimate key parameters that may be incorporated into population models useful for decision-making. I have been working for more than two decades on the demography and management of the European eel (*A. anguilla*) and, more recently, the conservation of marble trout (*S. marmoratus*), the optimal bioeconomic management of mollusc farming, the problem of algal bloom control in Adriatic coastal lagoons and the development of Rapid Assessment Methods to assess the status of coastal lagoons. I am currently investigating how the interaction between networks of Marine Protected Areas and different schemes of fishery management might impact the resilience, productivity and persistence of the abalone fisheries in Baja California, Mexico under alternative scenarios of climate change, including increase frequency and intensity of low oxygen, low pH and variable temperature.

I recently started to work on the bio-control of schistosomiasis in Senegal with dr. Sanna Sokolow and I keep working with Luca Bolzoni on the optimal control of infectious diseases in the wildlife and in farmed animals.

My interest for pursuing solutions for a more sustainable world brought me to take a non-academic, governmental job from 2001 to 2004 as director of the Program for Technological Innovation and Sustainable Development for the Environmental Protection Agency of the Lombardy region (Italy), where I developed agreements with business and industrial associations to foster the adoption of environmental management schemes and to improve corporate environmental performances.

I am currently associated editor of Ecology Letters and reviewers for several ecological journals. From 1999 to 2005 I was president of the Italian Association of Environmental Engineering (AIAT), member of the administration board of WWF Italy (2005-2007) and, from 2007 to 2012, chair of the Ethics and Sustainability Committee of Eurizon Capital, the investment management company of Intesa SanPaolo, the first Italian Bank. In the effort to increase awareness about the threats imposed by climate change and to foster actions to curb emissions, increase energy efficiency and saving, I wrote a book "Energia e Salute della Terra" (Energy and Planet Health, Fondazione Boroli publisher) that was distributed to 40 thousands students in high schools and colleges in Italy.

I hold a BE in Civil Engineering and a MS in Environmental Engineering from Politecnico di Milano (1989, Italy), a PhD in Applied Ecology from the Universities of Ferrara and Parma (1993, Italy) a three years research experience at Princeton University (1994-1996) and three more years (1996-1998) back to Politecnico di Milano . After more than a decade at the University of Parma, in 2012 I happily moved to Stanford as full time faculty.

Teaching

COURSES

2019-20

- Career Development for Graduate Students: BIOHOPK 315H (Aut)

2018-19

- Introduction to Ecology: BIOHOPK 81 (Spr)

2017-18

- Dynamics and Management of Marine Populations: BIOHOPK 177H, BIOHOPK 277H (Win)
- Introduction to Ecology: BIOHOPK 81 (Spr)
- Planetary Health: Socioeconomic & Ecological Links Between Human Health & Earth's Natural Ecosystems: BIOS 270 (Spr)

2016-17

- Career Development for Graduate Students: BIOHOPK 315H (Aut)
- Disease Ecology: from parasites evolution to the socio-economic impacts of pathogens on nations: BIOHOPK 168H, BIOHOPK 268H (Spr)
- Dynamics and Management of Marine Populations: BIOHOPK 177H, BIOHOPK 277H (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Will Gough, Betsy Mansfield, Jessica Martin, Nicole Nova, Lucas Pavan

Doctoral Dissertation Advisor (AC)

Maurice Goodman, Richard Grewelle, Isabel Jones

Doctoral Dissertation Co-Advisor (AC)

Andrea Lund

Doctoral (Program)

Maurice Goodman, Richard Grewelle, Isabel Jones, Andrea Lund

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)

Publications

PUBLICATIONS

- **Abundance and distribution of the white shark in the Mediterranean Sea** *FISH AND FISHERIES*
Moro, S., Jona-Lasinio, G., Block, B., Micheli, F., De Leo, G., Serena, F., Bottaro, M., Scacco, U., Ferretti, F.
2019
- **A demographic model for the conservation and management of the European eel: an application to a Mediterranean coastal lagoon** *ICES JOURNAL OF MARINE SCIENCE*
Bevacqua, D., Melia, P., Schiavina, M., Crivelli, A. J., De Leo, G. A., Gatto, M.
2019; 76 (7): 2164–78
- **Development, environmental degradation, and disease spread in the Brazilian Amazon.** *PLoS biology*
Castro, M. C., Baeza, A., Codeco, C. T., Cucunuba, Z. M., Dal'Asta, A. P., De Leo, G. A., Dobson, A. P., Carrasco-Escobar, G., Lana, R. M., Lowe, R., Monteiro, A. M., Pascual, M., Santos-Vega, et al
2019; 17 (11): e3000526
- **Challenges to reconcile conservation and exploitation of the threatened *Anguilla anguilla* (Linnaeus, 1758) in Santo Andre lagoon (Portugal)** *OCEAN & COASTAL MANAGEMENT*
Correia, M., Domingos, I., Santos, J., Lopes, V., de Leo, G., Costa, J.
2019; 181
- **Precision mapping of snail habitat provides a powerful indicator of human schistosomiasis transmission.** *Proceedings of the National Academy of Sciences of the United States of America*
Wood, C. L., Sokolow, S. H., Jones, I. J., Chamberlin, A. J., Lafferty, K. D., Kuris, A. M., Jocque, M., Hopkins, S., Adams, G., Buck, J. C., Lund, A. J., Garcia-Vedrenne, A. E., Fiorenza, et al
2019

- **Ecological interventions to prevent and manage zoonotic pathogen spillover.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Sokolow, S. H., Nova, N., Pepin, K. M., Peel, A. J., Pulliam, J. R., Manlove, K., Cross, P. C., Becker, D. J., Plowright, R. K., McCallum, H., De Leo, G. A.
2019; 374 (1782): 20180342
- **Unavoidable Risks: Local Perspectives on Water Contact Behavior and Implications for Schistosomiasis Control in an Agricultural Region of Northern Senegal.** *The American journal of tropical medicine and hygiene*
Lund, A. J., Sam, M. M., Sy, A. B., Sow, O. W., Ali, S., Sokolow, S. H., Merrell, S. B., Bruce, J., Jouanard, N., Senghor, S., Riveau, G., Lopez-Carr, D., De Leo, et al
2019
- **Modelled effects of prawn aquaculture on poverty alleviation and schistosomiasis control** *NATURE SUSTAINABILITY*
Hoover, C. M., Sokolow, S. H., Kemp, J., Sanchirico, J. N., Lund, A. J., Jones, I. J., Higginson, T., Riveau, G., Savaya, A., Coyle, S., Wood, C. L., Micheli, F., Casagrandi, et al
2019; 2 (7): 611–20
- **Quantifying coconut palm extent on Pacific islands using spectral and textural analysis of very high resolution imagery** *INTERNATIONAL JOURNAL OF REMOTE SENSING*
Burnett, M. W., White, T. D., McCauley, D. J., De Leo, G. A., Micheli, F.
2019
- **Catastrophic Mortality, Allee Effects, and Marine Protected Areas** *AMERICAN NATURALIST*
Aalto, E. A., Micheli, F., Boch, C. A., Montes, J., Woodson, C., De Leo, G. A.
2019; 193 (3): 391–408
- **Gene drives for schistosomiasis transmission control.** *PLoS neglected tropical diseases*
Maier, T., Wheeler, N. J., Namigai, E. K., Tycko, J., Grewelle, R. E., Woldeamanuel, Y., Klohe, K., Perez-Saez, J., Sokolow, S. H., De Leo, G. A., Yoshino, T. P., Zamanian, M., Reinhard-Rupp, et al
2019; 13 (12): e0007833
- **FROM SATELLITES TO SNAILS IN NORTHERN SENEGAL: HONING IN AN HIGHLY PRODUCTIVE SNAIL HABITATS USING REMOTE SENSING TECHNOLOGIES FOR TARGETED AND INTEGRATED VECTOR CONTROL OF SCHISTOSOMIASIS**
Wolfe, C. M., Haggerty, C. J., Chamberlin, A., Jones, I. J., Ndione, R., Bakhoun, S., Jouanard, N., Riveau, G., Wood, C., Sokolow, S., De Leo, G., Rohr, J. R.
AMER SOC TROP MED & HYGIENE.2019: 11
- **THE ROLE OF IRRIGATED AGRICULTURE IN SCHISTOSOMIASIS RISK IN A DAMMED LANDSCAPE IN WEST AFRICA**
Lund, A., Rehkopf, D., Sokolow, S., Jouanard, N., Sam, M., Fall, A., Riveau, G., Andrews, J., De Leo, G., Lopez-Carr, D.
AMER SOC TROP MED & HYGIENE.2019: 11
- **Potential Biological Control of Schistosomiasis by Fishes in the Lower Senegal River Basin.** *The American journal of tropical medicine and hygiene*
Arostegui, M. C., Wood, C. L., Jones, I. J., Chamberlin, A., Jouanard, N., Faye, D. S., Kuris, A. M., Riveau, G., De Leo, G. A., Sokolow, S. H.
2018
- **Estimating the elimination feasibility in the 'end game' of control efforts for parasites subjected to regular mass drug administration: Methods and their application to schistosomiasis.** *PLoS neglected tropical diseases*
Arakala, A., Hoover, C. M., Marshall, J. M., Sokolow, S. H., De Leo, G. A., Rohr, J. R., Remais, J. V., Gambhir, M.
2018; 12 (11): e0006794
- **The decline in recruitment of the European eel: new insights from a 40-year-long time-series in the Minho estuary (Portugal)** *ICES JOURNAL OF MARINE SCIENCE*
Correia, M., Costa, J., Antunes, C., De Leo, G., Domingos, I.
2018; 75 (6): 1975–83
- **Agrochemicals increase risk of human schistosomiasis by supporting higher densities of intermediate hosts** *NATURE COMMUNICATIONS*
Halstead, N. T., Hoover, C. M., Arakala, A., Civitello, D. J., De Leo, G. A., Gambhir, M., Johnson, S. A., Jouanard, N., Loerns, K. A., McMahon, T. A., Ndione, R. A., Nguyen, K., Raffel, et al
2018; 9: 837
- **To Reduce the Global Burden of Human Schistosomiasis, Use 'Old Fashioned' Snail Control** *TRENDS IN PARASITOLOGY*
Sokolow, S. H., Wood, C. L., Jones, I. J., Lafferty, K. D., Kuris, A. M., Hsieh, M. H., De Leo, G. A.
2018; 34 (1): 23–40

- **Ecological control of schistosomiasis in Sub-Saharan Africa: restoration of predator-prey dynamics to reduce transmission** *ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASES: PATHOGEN CONTROL AND PUBLIC HEALTH MANAGEMENT IN LOW-INCOME COUNTRIES*
Jones, I., Lund, A., Riveau, G., Jouanard, N., Ndione, R. A., Sokolow, S. H., De Leo, G. A., Roche, B., Broutin, H., Simard, F.
2018; 236–51
- **AN ECO-EVOLUTIONARY PERSPECTIVE ON SCHISTOSOMIASIS**
Buck, J., De Leo, G., Rosental, B., Sokolow, S.
AMER SOC TROP MED & HYGIENE.2018: 418
- **LOCAL PERCEPTIONS OF SEASONALITY AND REPORTED WATER CONTACT BEHAVIOR IN THE SAHEL: IMPLICATIONS FOR SCHISTOSOMIASIS TRANSMISSION**
Lund, A., Sow, O., Sokolow, S., Chamberlin, A., Jones, I., Jouanard, N., Riveau, G., Lopez-Carr, D., De Leo, G.
AMER SOC TROP MED & HYGIENE.2018: 418–19
- **COMPUTER VISION AND MACHINE LEARNING ENABLE ENVIRONMENTAL DIAGNOSTICS FOR TARGETING SCHISTOSOMIASIS CONTROL**
Sokolow, S., Liu, Z., Chamberlin, A., Le Boa, C., Wood, C., Jones, I., Grewelle, R., De Leo, G.
AMER SOC TROP MED & HYGIENE.2018: 418
- **Heterogeneity in schistosomiasis transmission dynamics** *JOURNAL OF THEORETICAL BIOLOGY*
Mari, L., Ciddio, M., Casagrandi, R., Perez-Saez, J., Bertuzzo, E., Rinaldo, A., Sokolow, S. H., De Leo, G. A., Gatto, M.
2017; 432: 87–99
- **The spatial spread of schistosomiasis: A multidimensional network model applied to Saint-Louis region, Senegal** *ADVANCES IN WATER RESOURCES*
Ciddio, M., Mari, L., Sokolow, S. H., De Leo, G. A., Casagrandi, R., Gatto, M.
2017; 108: 406–15
- **General ecological models for human subsistence, health and poverty** *NATURE ECOLOGY & EVOLUTION*
Ngonghala, C. N., De Leo, G. A., Pascual, M. M., Keenan, D. C., Dobson, A. P., Bonds, M. H.
2017; 1 (8): 1153–59
- **Nearly 400 million people are at higher risk of schistosomiasis because dams block the migration of snail-eating river prawns** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Sokolow, S. H., Jones, I. J., Jocque, M., La, D., Cords, O., Knight, A., Lund, A., Wood, C. L., Lafferty, K. D., Hoover, C. M., Collender, P. A., Remais, J. V., Lopez-Carr, et al
2017; 372 (1722)
- **Disease ecology, health and the environment: a framework to account for ecological and socio-economic drivers in the control of neglected tropical diseases** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Garchitorena, A., Sokolow, S. H., Roche, B., Ngonghala, C. N., Jocque, M., Lund, A., Barry, M., MORDECAI, E. A., Daily, G. C., Jones, J. H., Andrews, J. R., Bendavid, E., Luby, et al
2017; 372 (1722)
- **Big-data-driven modeling unveils country-wide drivers of endemic schistosomiasis** *SCIENTIFIC REPORTS*
Mari, L., Gatto, M., Ciddio, M., Dia, E. D., Sokolow, S. H., De Leo, G. A., Casagrandi, R.
2017; 7
- **Assessing the effectiveness of a large marine protected area for reef shark conservation** *BIOLOGICAL CONSERVATION*
White, T. D., Carlisle, A. B., Kroodsma, D. A., Block, B. A., Casagrandi, R., De Leo, G. A., Gatto, M., Michell, F., McCauley, D. J.
2017; 207: 64-71
- **The Resilience of Marine Ecosystems to Climatic Disturbances** *BIOSCIENCE*
O'Leary, J. K., Micheli, F., Airoidi, L., Boch, C., De Leo, G., Elahi, R., Ferretti, F., Graham, N. A., Litvin, S. Y., Low, N. H., Lummis, S., Nickols, K. J., Wong, et al
2017; 67 (3): 208-220
- **The Potential Role of Direct and Indirect Contacts on Infection Spread in Dairy Farm Networks.** *PLoS computational biology*
Rossi, G., De Leo, G. A., Pongolini, S., Natalini, S., Zarengi, L., Ricchi, M., Bolzoni, L.
2017; 13 (1)
- **Ocean warming and the demography of declines in coral body size** *MARINE ECOLOGY PROGRESS SERIES*

- Elahi, R., Sebens, K. P., De Leo, G. A.
2016; 560: 147-158
- **Global Assessment of Schistosomiasis Control Over the Past Century Shows Targeting the Snail Intermediate Host Works Best.** *PLoS neglected tropical diseases*
Sokolow, S. H., Wood, C. L., Jones, I. J., Swartz, S. J., Lopez, M., Hsieh, M. H., Lafferty, K. D., Kuris, A. M., Rickards, C., De Leo, G. A.
2016; 10 (7)
 - **Body size and meta-community structure: the allometric scaling of parasitic worm communities in their mammalian hosts** *PARASITOLOGY*
De Leo, G. A., Dobson, A. P., Gatto, M.
2016; 143 (7): 880-893
 - **Quantifying 60 years of declining European eel (*Anguilla anguilla* L., 1758) fishery yields in Mediterranean coastal lagoons** *ICES JOURNAL OF MARINE SCIENCE*
Aalto, E., Capoccioni, F., Mas, J. T., Schiavina, M., Leone, C., De Leo, G., Ciccotti, E.
2016; 73 (1): 101-110
 - **Infection with schistosome parasites in snails leads to increased predation by prawns: implications for human schistosomiasis control** *JOURNAL OF EXPERIMENTAL BIOLOGY*
Swartz, S. J., De Leo, G. A., Wood, C. L., Sokolow, S. H.
2015; 218 (24): 3962-3967
 - **The good, the bad and the ugly of marine reserves for fishery yields** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
De Leo, G. A., Micheli, F.
2015; 370 (1681)
 - **Reconciling predator conservation with public safety** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Ferretti, F., Jorgensen, S., Chapple, T. K., De Leo, G., Micheli, F.
2015; 13 (8): 412-417
 - **A Theoretical Analysis of the Geography of Schistosomiasis in Burkina Faso Highlights the Roles of Human Mobility and Water Resources Development in Disease Transmission** *PLOS NEGLECTED TROPICAL DISEASES*
Perez-Saez, J., Mari, L., Bertuzzo, E., Casagrandi, R., Sokolow, S. H., De Leo, G. A., Mande, T., Ceperley, N., Froehlich, J., Sou, M., Karambiri, H., Yacouba, H., Maiga, et al
2015; 9 (10)
 - **A global viability assessment of the European eel** *GLOBAL CHANGE BIOLOGY*
Bevacqua, D., Melia, P., Gatto, M., De Leo, G. A.
2015; 21 (9): 3323-3335
 - **ECOLOGICAL THEORY. A general consumer-resource population model.** *Science*
Lafferty, K. D., DeLeo, G., Briggs, C. J., Dobson, A. P., Gross, T., Kuris, A. M.
2015; 349 (6250): 854-857
 - **A general consumer-resource population model** *SCIENCE*
Lafferty, K. D., DeLeo, G., Briggs, C. J., Dobson, A. P., Gross, T., Kuris, A. M.
2015; 349 (6250): 854-857
 - **Reduced transmission of human schistosomiasis after restoration of a native river prawn that preys on the snail intermediate host** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Sokolow, S. H., Hutteringer, E., Jouanard, N., Hsieh, M. H., Lafferty, K. D., Kuris, A. M., Riveau, G., Senghor, S., Thiam, C., N'Diaye, A., Faye, D. S., De Leo, G. A.
2015; 112 (31): 9650-9655
 - **Epidemiological modelling for the assessment of bovine tuberculosis surveillance in the dairy farm network in Emilia-Romagna (Italy)** *EPIDEMICS*
Rossi, G., De Leo, G. A., Pongolini, S., Natalini, S., Vincenzi, S., Bolzoni, L.
2015; 11: 62-70
 - **A user-friendly tool to assess management plans for European eel fishery and conservation** *ENVIRONMENTAL MODELLING & SOFTWARE*
Schiavina, M., Bevacqua, D., Melia, P., Crivelli, A. J., Gatto, M., De Leo, G. A.

2015; 64: 9-17

- **React or wait: which optimal culling strategy to control infectious diseases in wildlife** *JOURNAL OF MATHEMATICAL BIOLOGY*
Bolzoni, L., TESSONI, V., Groppi, M., De Leo, G. A.
2014; 69 (4): 1001-1025
- **A risk-based framework for assessing the cumulative impact of multiple fisheries** *BIOLOGICAL CONSERVATION*
Micheli, F., De Leo, G., Butner, C., Martone, R. G., Shester, G.
2014; 176: 224-235
- **A system-wide approach to supporting improvements in seafood production practices and outcomes** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Micheli, F., De Leo, G., Shester, G. G., Martone, R. G., Lluch-Cota, S. E., Butner, C., Crowder, L. B., Fujita, R., Gelcich, S., Jams, M., Lester, S. E., McCay, B., Pelc, et al
2014; 12 (5): 297-305
- **Does biodiversity protect humans against infectious disease?** *ECOLOGY*
Wood, C. L., Lafferty, K. D., DeLeo, G., Young, H. S., Hudson, P. J., Kuris, A. M.
2014; 95 (4): 817-832
- **Rapid estimation of potential yield for data-poor *Tapes philippinarum* fisheries in North Adriatic coastal lagoons** *HYDROBIOLOGIA*
Vincenzi, S., De Leo, G. A., Munari, C., Mistri, M.
2014; 724 (1): 267-277
- **Understanding the effectiveness of marine protected areas using genetic connectivity patterns and Lagrangian simulations** *DIVERSITY AND DISTRIBUTIONS*
Pujolar, J. M., Schiavina, M., Di Franco, A., Melia, P., Guidetti, P., Gatto, M., De Leo, G. A., Zane, L.
2013; 19 (12): 1531-1542
- **REPRODUCTIVE POTENTIAL CAN PREDICT RECRUITMENT RATES IN ABALONE** *JOURNAL OF SHELLFISH RESEARCH*
Rossetto, M., De Leo, G. A., Greenley, A., Vazquez, L., Saenz-Arroyo, A., Espinoza Montes, J. A., Micheli, F.
2013; 32 (1): 161-169
- **Unexpected Consequences of Culling on the Eradication of Wildlife Diseases: The Role of Virulence Evolution** *AMERICAN NATURALIST*
Bolzoni, L., De Leo, G. A.
2013; 181 (3): 301-313
- **Effects of heat recovery for district heating on waste incineration health impact: A simulation study in Northern Italy** *SCIENCE OF THE TOTAL ENVIRONMENT*
Cordioli, M., Vincenzi, S., De Leo, G. A.
2013; 444: 369-380
- **A review of exposure assessment methods in epidemiological studies on incinerators.** *Journal of environmental and public health*
Cordioli, M., Ranzi, A., De Leo, G. A., Lauriola, P.
2013; 2013: 129470-?
- **Contamination, parasitism and condition of *Anguilla anguilla* in three Italian stocks** *ECOTOXICOLOGY*
Quadroni, S., Galassi, S., Capoccioni, F., Ciccotti, E., Grandi, G., De Leo, G. A., Bettinetti, R.
2013; 22 (1): 94-108
- **Reproductive Potential Can Predict Recruitment Rates in Abalone** *Journal of Shellfish Research*
Rossetto, M., De Leo, G., Greenley, A., Vazquez, L., Saenz- Arroyo, A., et al
2013; 32 (1): 162-169
- **Assessing Dispersal Patterns of Fish Propagules from an Effective Mediterranean Marine Protected Area** *PLOS ONE*
Di Franco, A., Coppini, G., Pujolar, J. M., De Leo, G. A., Gatto, M., Lyubartsev, V., Melia, P., Zane, L., Guidetti, P.
2012; 7 (12)
- **Evidence That Marine Reserves Enhance Resilience to Climatic Impacts** *PLOS ONE*
Micheli, F., Saenz-Arroyo, A., Greenley, A., Vazquez, L., Espinoza Montes, J. A., Rossetto, M., De Leo, G. A.
2012; 7 (7)

- **Translocation of stream-dwelling salmonids in headwaters: insights from a 15-year reintroduction experience** *REVIEWS IN FISH BIOLOGY AND FISHERIES*
Vincenzi, S., Crivelli, A. J., Jesensek, D., De Leo, G. A.
2012; 22 (2): 437-455
- **Fishery-Induced Selection for Slow Somatic Growth in European Eel** *PLOS ONE*
Bevacqua, D., Capoccioni, F., Melia, P., Vincenzi, S., Pujolar, J. M., De Leo, G. A., Ciccotti, E.
2012; 7 (5)
- **Allometric scaling of mortality rates with body mass in abalones** *OECOLOGIA*
Rossetto, M., De Leo, G. A., Bevacqua, D., Micheli, F.
2012; 168 (4): 989-996
- **Consequences of extreme events on population persistence and evolution of a quantitative trait** *ECOLOGICAL INFORMATICS*
Vincenzi, S., De Leo, G. A., Bellingeri, M.
2012; 8: 20-28
- **Dispersal Patterns of Coastal Fish: Implications for Designing Networks of Marine Protected Areas** *PLOS ONE*
Di Franco, A., Gillanders, B. M., De Benedetto, G., Pennetta, A., De Leo, G. A., Guidetti, P.
2012; 7 (2)
- **Getting a free ride on poultry farms: how highly pathogenic avian influenza may persist in spite of its virulence** *THEORETICAL ECOLOGY*
De Leo, G. A., Bolzoni, L.
2012; 5 (1): 23-35
- **Integrating habitat restoration and fisheries management: A small-scale case-study to support EEL conservation at the global scale** *KNOWLEDGE AND MANAGEMENT OF AQUATIC ECOSYSTEMS*
Ciccotti, E., Leone, C., Bevacqua, D., De Leo, G., Tancioni, L., Capoccioni, F.
2012
- **The Effect of Recurrent Floods on Genetic Composition of Marble Trout Populations** *PLOS ONE*
Pujolar, J. M., Vincenzi, S., Zane, L., Jesensek, D., De Leo, G. A., Crivelli, A. J.
2011; 6 (9)
- **Density-dependent and inter-specific interactions affecting European eel settlement in freshwater habitats** *HYDROBIOLOGIA*
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