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.

In the last five years, I focused most of my effort on building the Program for Disease Ecology Health and the Environment as a pillar of Human and Planetary Health at Stanford University, with the ultimate goal of discovering novel ecological solutions that can improve human wellbeing and the health of the environment that underpins it.

ACADEMIC APPOINTMENTS

• Professor, Oceans
• Professor, Earth System Science
• Professor, Biology
• Senior Fellow, Stanford Woods Institute for the Environment
• Professor (By courtesy), Biology
• Member, Bio-X
• Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)
• 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

2023-24

• Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, OCEANS 123H, OCEANS 223H (Spr)
• Get to Know Your Oceans: OCEANS 300A (Aut)
• Get to Know Your Oceans: OCEANS 300B (Win)
• Human and Planetary Health: MED 103, PUBLPOL 183, SOC 103, SUSTAIN 103 (Aut)
• Managing Your PhD: OCEANS 301 (Aut)
• Quantitative Methods for Marine Ecology and Conservation: BIO 143, BIO 243, CEE 164, CEE 264H, EARTHSYS 143H, OCEANS 143 (Win)

2022-23

• Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, BIOHOPK 123H, BIOHOPK 223H, OCEANS 123, OCEANS 223 (Spr)
• Environmental Humanities: Finding Our Place on a Changing Planet: BIO 184, ENGLISH 140D, SUSTAIN 140 (Aut)
• Human and Planetary Health: BIO 103, BIO 203, SOC 103, SUSTAIN 103 (Aut)

2021-22

• Human and Planetary Health: BIO 103, BIO 203, SOC 103 (Aut)
• Managing Your PhD: BIO 305 (Aut)
• People and Nature of Monterey Bay: BIOHOPK 119H, BIOHOPK 219H (Spr)
• Quantitative methods for marine ecology and conservation: BIO 143, BIO 243, BIOHOPK 143H, BIOHOPK 243H, CEE 164H, CEE 264H, EARTHSYS 143H, EARTHSYS 243H (Win)

2020-21

• Current Topics and Concepts in Quantitative Fish Dynamics and Fisheries Management: BIOHOPK 153H, BIOHOPK 253H (Win)
• HUMAN AND PLANET HEALTH: BIO 103, BIO 203 (Aut)
• Managing Your PhD: BIO 305 (Aut, Spr)
• Quantitative methods for marine ecology and conservation: BIOHOPK 143H, BIOHOPK 243H, CEE 164H, CEE 264H, EARTHSYS 143H, EARTHSYS 243H (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)
Chinmay Sonawane

Postdoctoral Faculty Sponsor
Ibrahim Aslan

Doctoral Dissertation Advisor (AC)
Maurice Goodman, Joy Kumagai, Kaitlyn Mitchell, Julie Pourtois

Doctoral (Program)
Maurice Goodman, Julie Pourtois, Ao Yu

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

• Biology (School of Humanities and Sciences) (Phd Program)
Publications

PUBLICATIONS

• Reframing Optimal Control Problems for Infectious Disease Management in Low-Income Countries. *Bulletin of mathematical biology*
  Igoe, M., Casagrandi, R., Gatto, M., Hoover, C. M., Mari, L., Ngonghala, C. N., Remais, J. V., Sanchirico, J. N., Sokolow, S. H., Lenhart, S., de Leo, G.
  2023; 85 (4): 31

• Climatic, land-use and socio-economic factors can predict malaria dynamics at fine spatial scales relevant to local health actors: Evidence from rural Madagascar. *PLOS global public health*
  Pourtois, J. D., Tallam, K., Jones, I., Hyde, E., Chamberlin, A. J., Evans, M. V., Ihantamalala, F. A., Cordier, L. F., Razafinjato, B. R., Rakotonanahary, R. J., Tsirinomen'ny Aina, A., Soloniaina, P., Raholiarimanana, et al
  2023; 3 (2): e0001607

• Modeling the efficacy of CRISPR gene drive for snail immunity on schistosomiasis control. *PLoS neglected tropical diseases*
  Grewelle, R. E., Perez-Saez, J., Tycko, J., Namigai, E. K., Rickards, C. G., De Leo, G. A.
  2022; 16 (10): e0010894

• Shifting fish distributions impact predation intensity in a sub-Arctic ecosystem *ECOGRAPHY*
  Goodman, M. C., Carroll, G., Brodie, S., Gruss, A., Thorson, J. T., Kotwicki, S., Holsman, K., Selden, R. L., Hazen, E. L., De Leo, G. A.
  2022

• Modelling the effect of habitat and fishing heterogeneity on the performance of a Total Allowable Catch-regulated fishery *ICES JOURNAL OF MARINE SCIENCE*
  Pourtois, J. D., Provost, M. M., Micheli, F., De Leo, G. A.
  2022

• Rapid recovery of depleted abalone in Isla Natividad, Baja California, Mexico *ECOSPHERE*
  Smith, A., Aguilar, J., Boch, C., De Leo, G., Hernandez-Velasco, A., Houck, S., Martinez, R., Monismith, S., Torre, J., Woodson, C., Micheli, F.
  2022; 13 (3)

• Concomitant Immunity and Worm Senescence May Drive Schistosomiasis Epidemiological Patterns: An Eco-Evolutionary Perspective. *Frontiers in immunology*
  Buck, J. C., De Leo, G. A., Sokolow, S. H.
  2020; 11: 160

• 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

• 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., Joque, 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., Pulliham, 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
Gene drives for schistosomiasis transmission control. *PLoS neglected tropical diseases*
Maier, T. n., Wheeler, N. J., Namigai, E. K., Tycko, J. n., Grewelle, R. E., Woldeamanuel, Y. n., Klohe, K. n., Perez-Saez, J. n., Sokolow, S. H., De Leo, G. A., Yoshino, T. P., Zamanian, M. n., Reinhard-Rupp, et al
2019; 13 (12): e007833

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

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

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

• 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., Zarenghi, L., Ricchi, M., Bolzoni, L.
  2017; 13 (1)

• 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)

• 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

• 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., Kambiriz, H., Yacouba, H., Maiga, et al.
  2015; 9 (10)

• 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

• 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

• 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

• 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

• Data-poor ecological risk assessment of multiple stressors. *Ecological Informatics*
  Grewelle, R. E., Mansfield, E., Micheli, F., De Leo, G.
  2023

• Pyrethroid insecticides pose greater risk than organophosphate insecticides to biocontrol agents for human schistosomiasis. *Environmental pollution (Barking, Essex : 1987)*
  Haggerty, C. E., Delius, B. K., Jouanard, N., Ndao, P. D., De Leo, G. A., Lund, A. J., Lopez-Carr, D., Remais, J. V., Riveau, G., Sokolow, S. H., Rohr, J. R.
2022: 120952

- Ecological and socioeconomic factors associated with the human burden of environmentally mediated pathogens: a global analysis. *LANCET PLANETARY HEALTH*
  Sokolow, S. H., Nova, N., Jones, I. J., Wood, C. L., Lafferty, K. D., Garchitorena, A., Hopkins, S. R., Lund, A. J., MacDonald, A. J., LeBoa, C., Peel, A. J., Mordecai, E. A., Howard, et al.
  2022; 6 (11): E870-E879

- Evidence gaps and diversity among potential win-win solutions for conservation and human infectious disease control. *LANCET PLANETARY HEALTH*
  Hopkins, S. R., Lafferty, K. D., Wood, C. L., Olson, S. H., Buck, J. C., De Leo, G. A., Fiorella, K. J., Fomberg, J. L., Garchitorena, A., Jones, I. J., Kuris, A. M., Kwong, L. H., LeBoa, et al.
  2022; 6 (8): E694-E705

- Evidence gaps and diversity among potential win-win solutions for conservation and human infectious disease control. *The Lancet. Planetary health*
  Hopkins, S. R., Lafferty, K. D., Wood, C. L., Olson, S. H., Buck, J. C., De Leo, G. A., Fiorella, K. J., Fomberg, J. L., Garchitorena, A., Jones, I. J., Kuris, A. M., Kwong, L. H., LeBoa, et al.
  2022; 6 (8): e694-e705

- Deep Learning Segmentation of Satellite Imagery Identifies Aquatic Vegetation Associated with Snail Intermediate Hosts of Schistosomiasis in Senegal, Africa. *REMOTE SENSING*
  Liu, Z., Chamberlin, A. J., Tallam, K., Jones, I. J., Lamore, L. L., Bauer, J., Bresciani, M., Wolfe, C. M., Casagrandi, R., Mari, L., Gatto, M., Diongue, A., Toure, et al.
  2022; 14 (6)

- The Potential for Aquaculture to Reduce Poverty and Control Schistosomiasis in Cote d’Ivoire (Ivory Coast) during an Era of Climate Change: A Systematic Review. *REVIEWS IN FISHERIES SCIENCE & AQUACULTURE*
  Ozretich, R. W., Wood, C. L., Allan, F., Koumi, A., Norman, R., Brierley, A. S., De Leo, G. A., Little, D. C.
  2022

- Ecological and socioeconomic factors associated with the human burden of environmentally mediated pathogens: a global analysis. *The Lancet. Planetary health*
  Sokolow, S. H., Nova, N., Jones, I. J., Wood, C. L., Lafferty, K. D., Garchitorena, A., Hopkins, S. R., Lund, A. J., MacDonald, A. J., LeBoa, C., Peel, A. J., Mordecai, E. A., Howard, et al.
  2022; 6 (11): e870-e879

- Environmental Persistence of the World's Most Burdensome Infectious and Parasitic Diseases. *Frontiers in public health*
  Hopkins, S. R., Jones, I. J., Buck, J. C., LeBoa, C., Kwong, L. H., Jacobsen, K., Rickards, C., Lund, A. J., Nova, N., MacDonald, A. J., Lambert-Peck, M., De Leo, G. A., Sokolow, et al.
  2022; 10: 892366

- Editorial: Planetary health impacts of pandemic coronaviruses. *Frontiers in public health*
  Lopez-Carr, D., Sokolow, S., De Leo, G., Murray, K., Barry, M.
  2022; 10: 987167

- BEHAVIORAL RESPONSES TO A SEASONAL ENVIRONMENT REDUCE FREQUENCY BUT INCREASE EXTENT OF WATER CONTACT IN A SCHISTOSOMIASIS-ENDEMIC REGION OF WEST AFRICA
  Lund, A., Sam, M., Sy, A., Sow, O., Sokolow, S., Merrell, S., Bruce, J., Jouanard, N., Senghor, S., Riveau, G., De Leo, G., Lopez-Carr, D.
  AMER SOC TROP MED & HYGIENE.2021: 405

- IDENTIFICATION OF SNAILS AND SCHISTOSOMA OF MEDICAL IMPORTANCE VIA CONVOLUTIONAL NEURAL NETWORKS
  Tallam, K., Liu, Z. Y., Chamberlin, A. J., Jones, I. J., Shome, P., Riveau, G., Ndione, R. A., Bandagny, L., Jouanard, N., Eck, P. V., Ngo, T., Sokolow, S. H., De Leo, et al.
  AMER SOC TROP MED & HYGIENE.2021: 295

- Exposure, hazard, and vulnerability all contribute to Schistosoma haematobium re-infection in northern Senegal. *PLoS neglected tropical diseases*
  Lund, A. J., Sokolow, S. H., Jones, I. J., Wood, C. L., Ali, S., Chamberlin, A., Sy, A. B., Sam, M. M., Jouanard, N., Schacht, A., Senghor, S., Fall, A., Ndione, et al.
  2021; 15 (10): e0009806

- A comparative analysis of European eel’s somatic growth in the coastal lagoon Santo Andre (Portugal) with growth in other estuaries and freshwater habitats. *ENVIRONMENTAL BIOLOGY OF FISHES*
  Correia, M., Domingos, I., De Leo, G. A., Costa, J.
  2021
• Identification of Snails and Schistosoma of Medical Importance via Convolutional Neural Networks: A Proof-of-Concept Application for Human Schistosomiasis. FRONTIERS IN PUBLIC HEALTH
Tallam, K., Liu, Z., Chamberlin, A. J., Jones, I. J., Shome, P., Riveau, G., Ndione, R. A., Bandagny, L., Jouanard, N., Van Eck, P., Ngo, T., Sokolow, S. H., De Leo, et al
2021; 9: 642895

• Variable coastal hypoxia exposure and drivers across the southern California Current. Scientific reports
Low, N. H., Micheli, F., Aguilar, J. D., Arce, D. R., Boch, C. A., Bonilla, J. C., Bracamontes, M. A., De Leo, G., Diaz, E., Enriquez, E., Hernandez, A., Martinez, R., Mendoza, et al
2021; 11 (1): 10929

• Redefining risk in data-poor fisheries. FISH AND FISHERIES
Grewelle, R. E., Mansfield, E., Micheli, F., De Leo, G.
2021

• Land use impacts on parasitic infection: a cross-sectional epidemiological study on the role of irrigated agriculture in schistosome infection in a dammed landscape. Infectious diseases of poverty
Lund, A. J., Rehkopf, D. H., Sokolow, S. H., Sam, M. M., Jouanard, N., Schacht, A., Senghor, S., Fall, A., Riveau, G., De Leo, G. A., Lopez-Carr, D.
2021; 10 (1): 35

• Agricultural Innovations to Reduce the Health Impacts of Dams. SUSTAINABILITY
Lund, A. J., Lopez-Carr, D., Sokolow, S. H., Rohr, J. R., De Leo, G. A.
2021; 13 (4)

• The influence of vector-borne disease on human history: socio-ecological mechanisms. Ecology letters
Athni, T. S., Shocket, M. S., Couper, L. I., Nova, N., Caldwell, I. R., Caldwell, J. M., Childress, J. N., Childs, M. L., De Leo, G. A., Kirk, D. G., MacDonald, A. J., Olivarius, K., Pickel, et al
2021

• Visualization of schistosomiasis snail habitats using light unmanned aerial vehicles. Geospatial health
Chamberlin, A. J., Jones, I. J., Lund, A. J., Jouanard, N., Riveau, G., Ndione, R., Sokolow, S. H., Wood, C. L., Lafferty, K. D., De Leo, G. A.
2021; 15 (2)

• Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover. Current biology : CB
Glidden, C. K., Nova, N., Kain, M. P., Lagerstrom, K. M., Skinner, E. B., Mandle, L., Sokolow, S. H., Plowright, R. K., Dirzo, R., De Leo, G. A., Mordecai, E. A.
2021; 31 (19): R1342-R1361

• Filamentous Bacteriophages and the Competitive Interaction between Pseudomonas aeruginosa Strains under Antibiotic Treatment: a Modeling Study. mSystems
Pourtois, J. D., Kratochvil, M. J., Chen, Q., Haddock, N. L., Burgener, E. B., De Leo, G. A., Bolyky, P. L.
2021; e0019321

• Schistosome infection in Senegal is associated with different spatial extents of risk and ecological drivers for Schistosoma haematobium and S. mansoni. PLoS neglected tropical diseases
Jones, I. J., Sokolow, S. H., Chamberlin, A. J., Lund, A. J., Jouanard, N., Bandagny, L., Ndione, R., Senghor, S., Schacht, A. M., Riveau, G., Hopkins, S. R., Rohr, J. R., Remais, et al
2021; 15 (9): e0009712

• Two Homogametic Genotypes - One Crayfish: On the Consequences of Intersexuality. iScience
Levy, T., Ventura, T., De Leo, G., Grinshpan, N., Abu Abayed, F. A., Manor, R., Savaya, A., Sklarz, M. Y., Chalifa-Casp, V., Mishmar, D., Sagi, A.
2020; 23 (11): 101652

• CLIMATE CHANGE AND COMMUNICABLE DISEASES Schistosomiasis and climate change. BMJ-BRITISH MEDICAL JOURNAL
De Leo, G. A., Stensgaard, A., Sokolow, S. H., N’Goran, E. K., Chamberlin, A. J., Yang, G., Utzinger, J.
2020; 371

• How to identify win-win interventions that benefit human health and conservation. NATURE SUSTAINABILITY
Hopkins, S. R., Sokolow, S. H., Buck, J. C., De Leo, G. A., Jones, I. J., Kwong, L. H., LeBoa, C., Lund, A. J., MacDonald, A. J., Nova, N., Olson, S. H., Peel, A. J., Wood, et al
2020
• Improving rural health care reduces illegal logging and conserves carbon in a tropical forest. *Proceedings of the National Academy of Sciences of the United States of America*
  Jones, I. J., MacDonald, A. J., Hopkins, S. R., Lund, A. J., Liu, Z. Y., Fawzi, N. I., Purba, M. P., Fankhauser, K., Chamberlin, A. J., Nirmala, M., Blundell, A. G., Emerson, A., Jennings, et al
  2020

• Cost-effectiveness of combining drug and environmental treatments for environmentally transmitted diseases. *Proceedings. Biological sciences*
  Castonguay, F. M., Sokolow, S. H., De Leo, G. A., Sanchirico, J. N.
  2020; 287 (1933): 20200966

• Aquatic macrophytes and macroinvertebrate predators affect densities of snail hosts and local production of schistosome cercariae that cause human schistosomiasis. *PLoS neglected tropical diseases*
  Hagerty, C. J., Bakhoun, S., Civitello, D. J., De Leo, G. A., Jouanard, N., Ndione, R. A., Remais, J. V., Riveau, G., Senghor, S., Sokolow, S. H., Sow, S., Wolfe, C., Wood, et al
  2020; 14 (7): e0008417

• Effects of agrochemical pollution on schistosomiasis transmission: a systematic review and modelling analysis. *Lancet Planetary Health*
  Hoover, C. M., Rumschlag, S. L., Strgar, L., Arakala, A., Gambhir, M., de Leo, G. A., Sokolow, S. H., Rohr, J. R., Remais, J.
  2020; 4 (7): E280–E291

• Effects of agrochemical pollution on schistosomiasis transmission: a systematic review and modelling analysis. *The Lancet. Planetary health*
  Hoover, C. M., Rumschlag, S. L., Strgar, L., Arakala, A., Gambhir, M., de Leo, G. A., Sokolow, S. H., Rohr, J. R., Remais, J. V.
  2020; 4 (7): e280–e291

• The IAG gene in the invasive crayfish Procambarus clarkii - towards sex manipulations for biocontrol and aquaculture. *Management of Biological Invasions*
  Savaya, A., De Leo, G., Aalto, E., Levy, T., Rosen, O., Manor, R., Aflalo, E. D., Tricarico, E., Sagi, A.
  2020; 11 (2): 237–58

• Tracking the response of industrial fishing fleets to large marine protected areas in the Pacific Ocean. *Conservation biology : the journal of the Society for Conservation Biology*
  White, T. D., Ong, T. n., Ferretti, F. n., Block, B. A., McCauley, D. J., Micheli, F. n., De Leo, G. A.
  2020

• Modelling marine diseases. *Marine Disease Ecology*
  Ben-Horin, T., Bidegain, G., de Leo, G., Groner, M. L., Hofmann, E., McCallum, H., Powell, E., Behringer, D. C., Silliman, B. R., Lafferty, K. D.
  2020; 233–55

• 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

• 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

• 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
• 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., Bakhoum, S., Jouanard, N., Riveau, G., Wood, C., Sokolow, S., De Leo, G., Rohr, J. R.
AMER SOC TROP MED & HYGIENE 2019: 11

• 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

• 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

• 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., Airoldi, L., Boch, C., De Leo, G., Elahi, R., Ferretti, F., Graham, N. A., Litvin, S. Y., Low, N. H., Lammis, S., Nickols, K. J., Wong et al
2017; 67 (3): 208-220

• 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

• 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

• 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)

• 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

• 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., Huttinger, 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

• 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

• 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
• 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.
• 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*
  Cicotti, 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*
  Bevacqua, D., Andrello, M., Melia, P., Vincenzi, S., De Leo, G. A., Crivelli, A. J.  
  2011; 671 (1): 259-265

• An integrated genetic- demographic model to unravel the origin of genetic structure in European eel (*Anguilla anguilla L.*)  *EVOLOUTIONARY APPLICATIONS*
  Andrello, M., Bevacqua, D., Maes, G. E., De Leo, G. A.  
  2011; 4 (4): 517-533

• No apparent genetic bottleneck in the demographically declining European eel using molecular genetics and forward-time simulations  *CONSERVATION GENETICS*
  Pujolar, J. M., Bevacqua, D., Capoccioni, F., Cicciotti, E., De Leo, G. A., Zane, L.  
  2011; 12 (3): 813-825

• Use of *Anguilla anguilla* for Biomonitoring Persistent Organic Pollutants (POPs) in Brackish and Riverine Waters in Central and Southern Italy  *WATER, AIR AND SOIL POLLUTION*
  Bettinetti, R., Galassi, S., Quadrioni, S., Volta, P., Capoccioni, F., Cicciotti, E., De Leo, G. A.  
  2011; 217 (1-4): 321-331

• Application of a Random Forest algorithm to predict spatial distribution of the potential yield of *Ruditapes philippinarum* in the Venice lagoon, Italy  *ECOLOGICAL MODELLING*
  Vincenzi, S., Zucchetta, M., Franzoi, P., Pellizzato, M., Pronovi, F., De Leo, G. A., Torricelli, P.  
  2011; 222 (8): 1471-1478

• Body growth and mortality of the spiny lobster *Palinurus elephas* within and outside a small marine protected area (vol 106, pg 543, 2010)  *FISHERIES RESEARCH*
  Bevacqua, D., Melia, P., Follesa, M. C., De Leo, G. A., Gatto, M., Cau, A.  
  2011; 108 (2-3): 404-404

• Genetic patchiness in European eel adults evidenced by molecular genetics and population dynamics modelling  *MOLECULAR PHYLOGENETICS AND EVOLUTION*
  Pujolar, J. M., Bevacqua, D., Andrello, M., Capoccioni, F., Cicciotti, E., De Leo, G. A., Zane, L.  
  2011; 58 (2): 198-206

• Intra-specific scaling of natural mortality in fish: the paradigmatic case of the European eel  *OECOLOGIA*
  Bevacqua, D., Melia, P., De Leo, G. A., Gatto, M.  
  2011; 165 (2): 333-339

• Innocent until proven guilty? Stable coexistence of alien rainbow trout and native marble trout in a Slovenian stream  *NATURWISSENSCHAFTEN*
  Vincenzi, S., Crivelli, A. J., Jesensek, D., Rossi, G., De Leo, G. A.  
  2011; 98 (1): 57-66
• Body growth and mortality of the spiny lobster Palinurus elephas within and outside a small marine protected area *FISHERIES RESEARCH*
  Bevacqua, D., Melia, P., Follesa, M. C., De Leo, G. A., Gatto, M., Cau, A.
  2010; 106 (3): 543-549

• The value of spatial information in MPA network design *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Costello, C., Rassweiler, A., Siegel, D., De Leo, G., Micheli, F., Rosenberg, A.
  2010; 107 (43): 18294-18299

• Detection of density-dependent growth at two spatial scales in marble trout (Salmo marmoratus) populations *ECOLOGY OF FRESHWATER FISH*
  Vincenzi, S., Crivelli, A. J., Jesensek, D., De Leo, G. A.
  2010; 19 (3): 338-347

• Individual growth and its implications for the recruitment dynamics of stream-dwelling marble trout (Salmo marmoratus) *ECOLOGY OF FRESHWATER FISH*
  Vincenzi, S., Crivelli, A. J., Jesensek, D., De Leo, G. A.
  2010; 19 (3): 477-486

• The management of small, isolated salmonid populations: do we have to fix it if it ain’t broken? *ANIMAL CONSERVATION*
  Vincenzi, S., Crivelli, A. J., Jesensek, D., De Leo, G. A.
  2010; 13 (1): 21-23

• Genetic variability is unrelated to growth and parasite infestation in natural populations of the European eel (Anguilla anguilla) *MOLECULAR ECOLOGY*
  Pujolar, J. M., Bevacqua, D., Capocciioni, F., Ciccotti, E., De Leo, G. A., Zane, L.
  2009; 18 (22): 4604-4616

• Genetic composition of Atlantic and Mediterranean recruits of European eel Anguilla anguilla based on EST-linked microsatellite loci *JOURNAL OF FISH BIOLOGY*
  Pujolar, J. M., De Leo, G. A., Ciccotti, E., Zane, L.
  2009; 74 (9): 2034-2046

• Size selectivity of fyke nets for European eel Anguilla anguilla *JOURNAL OF FISH BIOLOGY*
  Bevacqua, D., De Leo, G. A., Gatto, M., Melia, P.
  2009; 74 (9): 2178-2186

• Assessing Management Plans for the Recovery of the European Eel: A Need for Multi-Objective Analyses *International Symposium on Challenges for Diadromous Fishes in a Dynamic Global Environment*
  Bevacqua, D., Melia, P., Crivelli, A. J., Gatto, M., De Leo, G. A.
  AMER FISHERIES SOC.2009: 637–647

• Allometric Scaling and Seasonality in the Epidemics of Wildlife Diseases *AMERICAN NATURALIST*
  Bolzoni, L., Dobson, A. P., Gatto, M., De Leo, G. A.
  2008; 172 (6): 818-828

• Total population density during the first year of life as a major determinant of lifetime body-length trajectory in marble trout *ECOLOGY OF FRESHWATER FISH*
  Vincenzi, S., Crivelli, A. J., Jesensek, D., De Leo, G. A.
  2008; 17 (4): 515-519

• Parasites in food webs: the ultimate missing links *ECOLOGY LETTERS*
  Lafferty, K. D., Allesina, S., Arim, M., Briggs, C. J., De Leo, G., Dobson, A. P., Dunne, J. A., Johnson, P. T., Kuris, A. M., Marcogliese, D. J., Martinez, N. D., Memmott, J., Marquet, et al
  2008; 11 (6): 533-546

• The role of density-dependent individual growth in the persistence of freshwater salmonid populations *ECOLOGIA*
  Vincenzi, S., Crivelli, A. J., Jesensek, D., De Leo, G. A.
  2008; 156 (3): 523-534

• Body-size scaling in an SEI model of wildlife diseases *THEORETICAL POPULATION BIOLOGY*
  Bolzoni, L., De Leo, G. A., Gatto, M., Dobson, A. P.
Potential factors controlling the population viability of newly introduced endangered marble trout populations. *Biological Conservation* 2008; 73 (3): 374-382

A cost analysis of alternative culling strategies for the eradication of classical swine fever in wildlife. *Environment and Development Economics* 2007; 12: 653-671

Multi-objective assessment of conservation measures for the European eel (Anguilla anguilla): an application to the Camargue lagoons. *ICES Conference on Is There More to Eels than Slime* Oxford Univ Press 2007: 1483–90

Transmission Heterogeneity and Control Strategies for Infectious Disease Emergence. *PLoS One* 2007; 2 (8)

Early survival of marble trout *Salmo marmoratus*: evidence for density dependence? *Ecology of Freshwater Fish* 2007; 16 (2): 116-123

Density-dependent individual growth of marble trout (*Salmo marmoratus*) in the Soca and Idrijca river basins, Slovenia. *Hydrobiologia* 2007; 583: 57-68

A comparative analysis of three habitat suitability models for commercial yield estimation of Tapes philippinarum in a North Adriatic coastal lagoon (Sacca di Goro, Italy). *Marine Pollution Bulletin* 2007; 55 (10-12): 579-590

Estimating clam yield potential in the Sacca di Goro lagoon (Italy) by using a two-part conditional model. *Aquaculture* 2006; 261 (4): 1281-1291

A simulation model of population genetic to unravel the pannictic nature of European eel. *Journal of Fish Biology* 2006; 69 (4): 1228-1235

Timing and rate of sexual maturation of European eel in brackish and freshwater environments. *Annual Symposium of the Fisheries-Society-of-the-British-Isles* Wiley-Blackwell 2006: 242–242

A demographic model for the management of eel fisheries in the Camargue lagoons. *Aquaculture* 2006; 261 (4): 200–208

Sex differentiation of the European eel in brackish and freshwater environments: a comparative analysis. *Journal of Fish Biology* 2006; 69 (4): 1228-1235

A GIS-based habitat suitability model for commercial yield estimation of Tapes philippinarum in a Mediterranean coastal lagoon (Sacca di Goro, Italy). *1st International Conference on Southern European Coastal Lagoons* Elsevier Science BV 2006: 90–104

Integrating marine protected areas with catch regulation. *Canadian Journal of Fisheries and Aquatic Sciences* 2006; 63 (3): 642-649
• Age and growth of Anguilla anguilla in the Camargue lagoons *JOURNAL OF FISH BIOLOGY*
  Melia, P., Bevacqua, D., Crivelli, A. J., De Leo, G. A., Panfili, J., Gatto, M.
  2006; 68 (3): 876-890

• A preliminary coastal wetland assessment procedure: Designing and testing an environmental sustainability index for Mediterranean lagoons *Joint Scientific Meeting of the National-Inter-University-Consortium-for-Marine-Sciences/16th Congress of the Italian-Association-for-Oceanology-and-Limnology*
  Carletti, A., De Leo, G. A., Ferrari, I.
  TAYLOR & FRANCIS LTD. 2006: 15–35

• A critical review of representative wetland rapid assessment methods in North America *AQUATIC CONSERVATION-MARINE AND FRESHWATER ECOSYSTEMS*
  Carletti, A., De Leo, G. A., Ferrari, I.
  2004; 14: S103-S113

• The decline of the grey partridge in Europe: comparing demographies in traditional and modern agricultural landscapes *ECOLOGICAL MODELLING*
  De Leo, G. A., Focardi, S., Gatto, M., Cattadori, I. M.
  2004; 177 (3-4): 313-335

• Density and temperature-dependence of vital rates in the Manila clam Tapes philippinarum: a stochastic demographic model *MARINE ECOLOGY PROGRESS SERIES*
  Melia, P., De Leo, G. A., Gatto, M.
  2004; 272: 153-164

• Carbon emissions - The economic benefits of the Kyoto Protocol *NATURE*
  De Leo, G. A., Rizzi, L., Caizzi, A., Gatto, M.
  2001; 413 (6855): 478-479

• A stochastic bioeconomic analysis of silver eel fisheries *ECOLOGICAL APPLICATIONS*
  De Leo, G. A., Gatto, M.
  2001; 11 (1): 281-294

• Pricing biodiversity and ecosystem services: The never-ending story *Biosciences*
  Gatto, M., De Leo, G. A.
  2000; 50 (4): 347-355

• VVF: integrating modelling and GIS in a software tool for habitat suitability assessment *ENVIRONMENTAL MODELLING & SOFTWARE*
  Ortigosa, G. R., De Leo, G. A., Gatto, M.
  2000; 15 (1): 1-12

• Interspecific competition among macroparasites in a density-dependent host population *JOURNAL OF MATHEMATICAL BIOLOGY*
  Gatto, M., De Leo, G. A.
  1998; 37 (5): 467-490

• Trends in vital rates of the European eel: Evidence for density dependence? *ECOLOGICAL APPLICATIONS*
  DELEO, G. A., Gatto, M.
  1996; 6 (4): 1281-1294

• Allometry and simple epidemic models for microparasites *NATURE*
  DELEO, G. A., Dobson, A. P.
  1996; 379 (6567): 720-722

• A SIZE AND AGE-STRUCTURED MODEL OF THE EUROPEAN EEL (ANGUILLA-ANGUILLA L) *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*
  DELEO, G. A., Gatto, M.
  1995; 52 (7): 1351-1367

• MANAGEMENT OF SUBSURFACE WATER BODIES - A COMPUTER-AIDED APPROACH TO MODEL CHOICE AND IMPLEMENTATION *JOURNAL OF ENVIRONMENTAL MANAGEMENT*
  DELEO, G. A., DELFURIA, L., Guariso, G.
  1994; 42 (2): 137-159
• THE INTERACTION BETWEEN SOIL ACIDITY AND FOREST DYNAMICS - A SIMPLE-MODEL EXHIBITING CATASTROPHIC BEHAVIOR. *THEORETICAL POPULATION BIOLOGY*
  Deleo, G., DELFURIA, L., Gatto, M.
  1993; 43 (1): 31-51

• TAXES AND THE DYNAMICS OF OVEREXPLOITED OPEN-ACCESS FISHERIES. *25TH EUROPEAN MARINE BIOLOGY SYMP ON EUTROPHICATION OF MARINE ENVIRONMENTS AND POPULATION DYNAMICS OF MARINE ORGANISMS*
  Deleo, G., Gatto, M., Ghezzi, L.
  OLSEN & OLSEN.1992: 317–322