Francesco Aliberti

Professor

Department of Biology
tel. +39 081 2534627
fax +39 081 2534623
e-mail francesco.aliberti@unina.it
www.docenti.unina.it/francesco.aliberti

RESEARCH INTERESTS

Title: Hhuman impact: risk evaluation and risk management

.Hygiene monitoring of environmental and food matrices is focused on the identification of traditional contamination indicators and of new microorganisms and/or emerging pathogens (*Legionella spp., Plesiomonas shigelloides, Escherichia coli O157H7, Clostridium difficile*, ecc.); experimenting of bioremediation techniques, mostly aiming to the reduction and suppression of microbial and ecotoxicological parameters.
The research lines are diversified basing on matrix type:

- Marine water: characterization of parameters indicated by regulations aimed to protect the bathing/touristic use of coastal zones; marine pollution.
- Thermal waters: characterization and protection of the water intakes of thermo-mineral waters through microbiological evaluations before waters utilization; analysis of the maturation process of thermal mud, for which there are not valid techniques able to establish the proper maturation levels;
- Drinking water: detection of chemical, physical and biological parameters, basing on the characteristics of the different plants and analysis of purification treatments employed; monitoring of mineral waters carried via tankers on boats in order to identify hygienistic critical points of the distribution "chain" and characterization strategies aimed to risk prevention;
- Wastewaters: characterization of chemical, physical, biological and ecotoxicological parameters; monitoring of wastewater treatment plants for the evaluation of the proper functioning. Experimenting of selected biomass employed for biological treatments, with respects to biofilm formation;
- Solid wastes: characterization of solid waste and treatments for landfill leachate using adapted biomasses and ecotoxicologic evaluations;
- Food: hygienistic monitoring of food manufacturing chains and application of HACCP method; research and identification of emerging pathogens.

CAREER

year	Title
2016	In charge of the works under contract of Hygiene, (waters, food, environmental) Laboratories – University of Naples "Federico II" – Department of Biology
2016	Manager of O.R. 2 research line for PON Project "Aquasystem"
2006	Coordinator of Specialized Center of Monitoring for Soils and Waters - PON Project "PETIT Osa"

TEACHING AND MANAGEMENT

2016 – Teaching activities:

- Hygiene and Laboratory; Scuola Politecnica e delle scienze di base – Bachelor Degree Course in Biological Sciences - University of Naples "Federico II"
- Hygiene and Risk Management; Scuola Politecnica e delle scienze di base – Master Degree Course in Biological Sciences - University of Naples "Federico II"
- Epidemiological Methodologies; Scuola Politecnica e delle scienze di base – Master Degree Course in Biological Sciences - University of Naples "Federico II"
- Hygiene of Food Productions– Continuing Education Course in Hygiene and Food Technologies – University of Naples "Federico II"
- Hygiene and Health Education – Continuing Education Course in Food education and prevention of dysmetabolic pathologies – University of Naples "Federico II"
- Hygiene of Food Chains - – Continuing Education Course in Food Hygiene, Nutrition and Wellness – University of Naples "Federico II"

2016 – Coordinator: In charge of University Orientation – Scuola Politecnica e delle Scienze di Base – Collegio di Scienze
2013-2015 – Coordinator: Member of the Council of Scuola Politecnica e delle Scienze di Base

JOURNAL PAPERS:

Carraturo, F., Gargiulo, G., Giorgio, A., Aliberti, F., Guida, M.
Prevalence, Distribution, and Diversity of Salmonella spp. in Meat Samples Collected from Italian Slaughterhouses
(2016) Journal of Food Science, . Article in Press.

Pagano, G., Aliberti, F., Guida, M., Oral, R., Siciliano, A., Trifuoggi, M., Tommasi, F.
Rare earth elements in human and animal health: State of art and research priorities
(2015) Environmental Research, 142, pp. 215-220.

Arienzo, M., Albanese, S., Lima, A., Cannatelli, C., Aliberti, F., Cicotti, F., Qi, S., De Vivo, B.
Assessment of the concentrations of polycyclic aromatic hydrocarbons and organochlorine pesticides in soils from the Sarno River basin, Italy, and ecotoxicological survey by Daphnia magna
(2015) Environmental Monitoring and Assessment, 187 (2), 14 p.

Carotenuto, M., Lofrano, G., Siciliano, A., Aliberti, F., Guida, M.
TiO<inf>2</inf> photocatalytic degradation of caffeine and ecotoxicological assessment of oxidation by-products
(2014) Global Nest Journal, 16 (3 SPEC. ISSUE), pp. 463-473.

Arienzo, M., Toscano, F., Di Fraia, M., Caputi, L., Sordino, P., Guida, M., Aliberti, F., Ferrara, L.
An assessment of contamination of the Fusaro Lagoon (Campania Province, southern Italy) by trace metals
(2014) Environmental Monitoring and Assessment, 186 (9), pp. 5731-5747.

Pasquale, V., Romano, V., Rupnik, M., Capuano, F., Bove, D., Aliberti, F., Krovacek, K., Dumontet, S.
Occurrence of toxigenic Clostridium difficile in edible bivalve molluscs
(2012) Food Microbiology, 31 (2), pp. 309-312.

Pasquale, V., Romano, V.J., Rupnik, M., Dumontet, S., Čižnár, I., Aliberti, F., Mauri, F., Saggiomo, V., Krovacek, K.
Isolation and characterization of Clostridium difficile from shellfish and marine environments
(2011) Folia Microbiologica, 56 (5), pp. 431-437.

Conte, M., Aliberti, F., Fucci, L., Piscopo, M.
Antimicrobial activity of various cationic molecules on foodborne pathogens
(2007) World Journal of Microbiology and Biotechnology, 23 (12), pp. 1679-1683.

Gargiulo, E., Aliberti, F., Novellino, M.R., Salerno, A.
Antibiotic resistant germs from thermal mineral waters from several areas with thermal waters in the Campania Region [Germi antibiotico-resistenti nelle acque termominerali di alcune zone termali della Regione Campania]
(2003) Igiene Moderna, 118 (3), pp. 173-195.

Gargiulo, E., Esposito, A., Aliberti, F.
Analysis of microfauna as an indicator of biological depuration of waste waters with surfactants [L'analisi della microfauna come indicatrice della depurazione biologica di liquami contenenti tensioattivi]
(2003) Igiene Moderna, 118 (1), pp. 1-18.