

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name **NEGRONI ANDREA**
Address **87/3 VIA GARIBALDI, 40033, CASALECCHIO DI RENO (BOLOGNA), ITALIA**
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Nationality Italian
Date of birth 9/29/1981

WORK EXPERIENCE

- Dates (from – to) FROM 04/19/2018 (permanent contract)
- Name and address of employer *Alma Mater Studiorum - Università di Bologna Via Zamboni, 33 - 40126 Bologna State University*
- Type of business or sector Lab Technician (Chemical expertise)
- Occupation or position held Laboratory research: Design and implementation of experiments, data analysis and interpretation of results. Scientific articles writing and review.
Cultivation of pure and mixed populations of aerobic and anaerobic microorganisms for the biodegradation of pollutants, the production of specific metabolites. Determination of biomass, extraction of organic pollutants from complex environmental matrices with solvent and in solid phase, chemical-physical characterization of environmental matrices, analysis (gas chromatography, liquid chromatography HPLC-DAD, HPLC-UV and anion exchange, spectrophotometry). DNA extraction from complex matrices, molecular biology analyses particularly aimed at the characterization of microbial populations (PCR, Denaturing Gradient Gel Electrophoresis - DGGE). Enzymatic assays for the determination of lipasic, proteasic, amylasic and biodegradation activity of plastic materials. Ecotoxicity tests in aqueous samples and soils with *Vibrio fisheri* and *Lepidium sativum*, respectively.
Teaching support activities: preparation and conducting didactic laboratory exercises of microbiology and biochemistry. Appointee of tutor internship 2019, 2020, 2021, 2022 for course "Laboratory of Industrial and Environmental Biotechnology".
Management of laboratory activities: Management of instruments, supplies, coordination of laboratory research activities, updating of safety procedures
Institutional positions: Member of the technical-administrative staff council (From January 2019).
- Main activities and responsibilities
- Dates (from – to) FROM 02/01/2017 To 01/31/2019
- Name and address of employer *Alma Mater Studiorum - Università di Bologna Via Zamboni, 33 - 40126 Bologna State University*
- Type of business or sector Post-Doctoral fellowship
- Occupation or position held Research Project: Enrichment and Carachterization of marine microbial populations capable of dehalogenation of organohalides. The activity is performed at the

Department of Civil, Environmental and Material Engineering (DICAM), Faculty of Engineering, University of Bologna, Bologna, Italy.

- Main activities and responsibilities

Laboratory research: planning and performing of experiments, data analyses and interpretation of the results. Writing of scientific articles.

Cultivation of anaerobic microorganisms in mixed and pure cultures, determination of biomass, solvent extraction and solid-phase extraction of organic pollutants from a complex environmental matrix (marine sediment), physical and chemical characterization of the sediment, chromatographic analyses (gas-chromatography, liquid- chromatography HPLC-UV and IC), extraction of DNA from the sediment, molecular biology analyses aimed at characterizing the microbial populations (PCR, Denaturing Gradient Gel Electrophoresis – DGGE).

- Dates (from – to)

FROM 03/04/2012 To 12/31/2016

- Name and address of employer

Alma Mater Studiorum - Università di Bologna Via Zamboni, 33 - 40126 Bologna

- Type of business or sector

State University

- Occupation or position held

Lab Technician

- Main activities and responsibilities

Laboratory research: planning and performing of experiments, data analyses and interpretation of the results. Writing of scientific articles and reviews.

Cultivation of aerobic and anaerobic microorganisms in mixed and pure cultures for bioproduction of specific metabolites (biosurfactants) and bioconversions (biovanillin), determination of biomass, solvent extraction and solid-phase extraction of organic pollutants from a complex environmental matrix (marine sediment), physical and chemical characterization of the sediment, chromatographic analyses (gas-chromatography, liquid- chromatography HPLC-DAD and IC), sediment washing with biogenic surfactant agents, extraction of DNA from the sediment, molecular biology analyses aimed at characterizing the microbial populations (PCR, Denaturing Gradient Gel Electrophoresis – DGGE). Enzymatic assay of lipase, protease, amilases. Ecotoxicity tests in aqueous and soil samples with *Vibrio fischeri* and *Lepidium sativum*, respectively.

Co-supervision of Master degree thesis: planning of experiments and proofreading of the thesis.

Revision of scientific articles submitted to international Journals (New Biotechnology).

Participation in project meetings.

- Dates (from – to)

FROM 4/1/2010 To 3/31/2012

- Name and address of employer

Alma Mater Studiorum - Università di Bologna Via Zamboni, 33 - 40126 Bologna

- Type of business or sector

State University

- Occupation or position held

Post-Doctoral fellowship

Research Project: Remediation of polychlorobiphenils (PCBs) contaminated sediments by means of reductive dehalogenation and “washing”. The activity is performed at the Department of Civil, Environmental and Material Engineering (DICAM), Faculty of Engineering, University of Bologna, Bologna, Italy.

- Main activities and responsibilities

Laboratory research: planning and performing of experiments, data analyses and interpretation of the results. Writing of scientific articles. Participation in international scientific conferences: presentation of the results (poster and oral). Participation in project meetings.

Cultivation of anaerobic microorganisms in mixed and pure cultures, determination of biomass, solvent extraction and solid-phase extraction of organic pollutants from a complex environmental matrix (marine sediment), physical and chemical characterization of the sediment, chromatographic analyses (gas-chromatography, liquid- chromatography HPLC-DAD and IC), sediment washing with biogenic surfactant agents, extraction of DNA from the sediment, molecular biology analyses aimed at characterizing the microbial populations (PCR, Denaturing Gradient Gel Electrophoresis – DGGE). Enzymatic assay of lipase, protease, amilases.

Co-supervision of Master degree thesis: planning of experiments and proofreading of the thesis.

Revision of scientific articles submitted to international Journals (New Biotechnology, Greener Journals)

- Dates (from – to)

FROM 5/18/2010 To 7/18/2010

<ul style="list-style-type: none"> • Name and address of employer • Type of business or sector • Occupation or position held 	<p>Alma Mater Studiorum - Università di Bologna Via Zamboni, 33 - 40126 Bologna</p> <p>State University</p> <p>Coordinated Continuative Appointment</p> <p>Research Project: Physical, chemical and microbiological characterization of sediments of Canal Candiano of Ravenna harbour and its overlaying water. The activity is performed at the Department of Civil, Environmental and Material Engineering (DICAM), Faculty of Engineering, University of Bologna, Bologna, Italy.</p>
<ul style="list-style-type: none"> • Main activities and responsibilities 	<p>Laboratory research: planning and performing of experiments, data analyses and interpretation of the results. Writing of scientific articles.</p> <p>Cultivation of anaerobic microorganisms in mixed and pure cultures, determination of biomass, solvent extraction and solid-phase extraction of organic pollutants from a complex environmental matrix (marine sediment), physical and chemical characterization of the sediment, chromatographic analyses (gas-chromatography, liquid-chromatography HPLC-DAD and IC), sediment washing with biogenic surfactant agents, extraction of DNA from the sediment, molecular biology analyses aimed at characterizing the microbial populations (PCR, Denaturing Gradient Gel Electrophoresis – DGGE). Enzymatic assay of lipase, protease, amilases.</p> <p>Co-supervisor of bachelor degree students lab classes: microbiology, molecular biology, analytical chemistry techniques.</p> <p>Participation in international scientific conferences and presentation of results (poster).</p>
<ul style="list-style-type: none"> • Dates (from – to) 	<p>FROM 3/1/2006 To 12/31/2006</p>
<ul style="list-style-type: none"> • Name and address of employer • Type of business or sector • Occupation or position held 	<p>Interuniversity National Consortium “Chemistry for the Environment” (INCA)</p> <p>Via delle Industrie 21/8 - Marghera (VE)</p> <p>Interuniversity National Consortium</p> <p>Project Appointment Coordinated with INCA</p> <p>Research project: development and characterization of biocatalysts for the production of vanillin from renewable resources.</p> <p>The activity was performed at the Department of Applied Chemistry and Material Science of the Faculty of Engineering (DICASM), University of Bologna, Bologna, Italy.</p>
<ul style="list-style-type: none"> • Main activities and responsibilities 	<p>Laboratory research: planning and performing of experiments, data analyses and interpretation of the results.</p> <p>Cultivation of microorganisms in pure cultures, chromatographic analyses (liquid-chromatography HPLC-DAD), spectrophotometry, use of a CSTR fermenter.</p>

EDUCATION AND TRAINING

<ul style="list-style-type: none"> • Dates (from – to) 	<p>FROM 1/1/2007 To 12/31/2009</p>
<ul style="list-style-type: none"> • Name and type of organization providing education and training 	<p><i>Alma Mater Studiorum</i> - Università di Bologna Via Zamboni, 33 - 40126 Bologna.</p> <p>Italian State University</p> <p>PhD student of the School in PhD “School in Biological, Biomedical and Biotechnological Sciences”, PhD course in “Cellular, Molecular and Industrial Biology” (project n°3 “Industrial microbiology and biotechnology”) XXII year.</p> <p>Research Project: Microbial reductive dechlorination of polychlorinated biphenyls (PCBs) in marine anaerobic sediments of the Venice Lagoon: enrichment and identification of the dehalogenating microorganisms.</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Laboratory research: planning and performing of experiments, data analyses and interpretation of the results. Writing of scientific articles. Participation in international scientific conferences: presentation of the results (posters and oral).</p> <p>Cultivation of anaerobic microorganisms in mixed and pure cultures, determination of biomass, solvent extraction and solid-phase extraction of organic pollutants from a complex environmental matrix (marine sediment), physical and chemical characterization of the sediment, chromatographic analyses (gas-chromatography, liquid-chromatography HPLC-DAD and IC), sediment washing with biogenic surfactant agents, extraction of DNA from the sediment, molecular biology analyses aimed at characterizing the microbial populations (PCR, Denaturing Gradient Gel</p>

<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training 	<p>Electrophoresis – DGGE). Enzymatic assay of lipase, protease, amilases. Sequence database handling and data analysis (use of ARB software)</p> <p>DOCTOR OF PHILOSOPHY IN CELLULAR, MOLECULAR AND INDUSTRIAL BIOLOGY. TITLE AWARDED ON MARCH 25TH, 2010.</p> <p>FROM 12/1/2008 TO 5/31/2009 AND FROM 11/4/2010 TO 2/20/2011</p> <p>Laboratory of Microbial Ecology and Technology (LabMET), Faculty of Bioscience Engineering, Ghent University - Belgium Belgian State University</p> <p>Internship for taking part in two research project dealing with microbiology and molecular biology: Research project: CHARACTERIZATION OF MICROBIAL COMMUNITY BY MEANS OF MOLECULAR ANALYSES: A COMPARISON BETWEEN DIFFERENT TECHNIQUES. Research project: MICROBIAL COMMUNITY DINAMICS UPON INVASION. Research project: MICROBIOLOGICAL ASSESSMENT OF THE QUALITY OF ACTIVATED SLUDGE REACTORS.</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Laboratory research: planning and performing of experiments, data analyses and interpretation of the results. Writing of scientific articles. Cultivation of anaerobic microorganisms in mixed and pure cultures, molecular biology analyses aimed at characterizing the microbial populations (extraction of DNA from complex matrices such as soils and sludges, PCR, Terminal Restriction Fragment Length Polymorphism – TRFLP, Denaturing Gradient Gel Electrophoresis – DGGE, Real-Time PCR, Fluorescence In Situ Hybridization - FISH), colorimetric assays, citofluorimetry epifluorescence microscopy. Attendance to weekly seminars organized by the research group. Direction of international lab-classes courses. Revision of scientific articles submitted to international Journals (Journal of Agriculture and Food Chemistry).</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training 	<p>Statement of participation to the research activity performed at the Laboratory of Microbial Ecology and Technology (LabMET), Faculty of Bioscience Engineering, Ghent University – Belgium</p> <p>FROM ACADEMIC YEAR 2000-2001 To ACADEMIC YEAR 2004-2005</p> <p><i>Alma Mater Studiorum</i> - Università di Bologna Via Zamboni, 33 - 40126 Bologna. Italian State University</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Student at the degree course in industrial Biotechnology General, inorganic and organic Chemistry, biology, Genetics, Biotechnology. Laboratory experiences: Cultivation of aerobic and anaerobic microorganisms, eucariotic cell-clutures, molecular biology (PCR, cloning, DNA extraction), chromatography, bioinformatics, microscopy.</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) <ul style="list-style-type: none"> • Dates (from – to) • Name and type of organization providing education and training 	<p>Master degree (old reform) in Industrial Biotechnology. Title awarded on February 17th, 2006 (final mark 110/110)</p> <p>FROM SCHOOL YEAR 1995-1996 To SCHOOL YEAR 1999-2000</p>
<ul style="list-style-type: none"> • Principal subjects/occupational skills covered 	<p>Scientific High School “Leonardo da Vinci”. Casalecchio di Reno (Bo). Via Cavour, 6.</p>
<ul style="list-style-type: none"> • Title of qualification awarded • Level in national classification (if appropriate) 	<p>Maths, Physics, Chemistry, Biology, Geography, History, Philosophy, Latina, Italian, English, Italian literature, Latin literature. Scientific High School Diploma (“Science program”) Title awarded in 2000 (final mark 95/100)</p>

**PERSONAL SKILLS
AND COMPETENCIES**

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

GOOD

GOOD

GOOD

**SOCIAL SKILLS
AND COMPETENCIES**

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential
(for example culture and sports), etc.*

ABILITY TO WORK IN A GROUP AND TO INTERACT WITH PEOPLE, EVEN IF COMING FROM OTHER NATIONS. ABLE TO PLAN AND ORGANIZE THE WORK TOGETHER, ALSO WITH PEOPLE NOT DIRECTLY INVOLVED IN THE SAME RESEARCH ACTIVITY. WORK EXPERIENCE PERFORMED ABROAD (BELGIUM).

**ORGANIZATIONAL SKILLS
AND COMPETENCIES**

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

ARRANGEMENT OF THE SCIENTIFIC PROGRAMME OF THE 14TH INTERNATIONAL BIOTECHNOLOGY SYMPOSIUM AND EXHIBITION (14TH IBS), 14-18 SEPTEMBER 2010, RIMINI, ITALY. INTERACTION BETWEEN SPEAKERS AND ORGANIZERS.

DIRECTION OF STUDENT LAB-CLASSES AND DEVELOPMENT OF EXPERIMENTS AND PREPARATION OF STUDENT DEGREE THESIS. REVISION OF RESEARCH ARTICLES IN INTERNATIONAL SCIENTIFIC JOURNALS.

**TECHNICAL SKILLS
AND COMPETENCIES**

*With computers, specific kinds of
equipment, machinery, etc.*

Scientific skills:

Cultivation of anaerobic and anaerobic microorganisms in mixed and pure cultures, determination of biomass, solvent extraction and solid-phase extraction of organic pollutants from a complex environmental matrix (marine sediment), physical and chemical characterization of the sediment, chromatographic analyses (gas-chromatography, liquid- chromatography HPLC-DAD and IC), sediment washing with biogenic surfactant agents, extraction of DNA from the sediment, molecular biology analyses aimed at characterizing the microbial populations (extraction of DNA from complex matrices such as soils and sludges, PCR, Terminal Restriction Fragment Length Polymorphism – TRFLP, Denaturing Gradient Gel Electrophoresis – DGGE, Real-Time PCR, Fluorescence In Situ Hybridization - FISH), colorimetric assays, citofluorimetry epifluorescence microscopy. Use of software for the management of sequence databases (ARB software). Enzymatic assay of lipase, protease, amilases.

**ARTISTIC SKILLS
AND COMPETENCIES**

Music, writing, design, etc.

Basic level of playing organ and flute

**OTHER SKILLS
AND COMPETENCIES**

*Competences not mentioned
above.*

Ability to play team (Basketball) and individual sports (swimming, cycling, jogging, skiing, trekking). Ability to play flute (medium grade level) and organ (minimum level)

DRIVING LICENCE(S)

European Driving Licence B

ADDITIONAL INFORMATION

[Include here any other information that may be relevant, for example contact persons, references, etc.]

ANNEXES

PUBLICATION LIST

Date: June 9th, 2023

Signature

FULL PAPERS IN INTERNATIONAL SCIENTIFIC JOURNALS**H index: 15** (as calculated by Scopus in July, 2022)

1. A. Rosato, M. Barone, A. Negroni, P. Brigidi, F. Fava, E. Biagi, M. Candela, G. Zanaroli. **Bacterial colonization dynamics of different microplastic types in an anoxic salt marsh sediment and impact of adsorbed polychlorinated biphenyls on the plastisphere** Environmental Pollution n 315 (2022), 120411. DOI <https://dx.doi.org/10.1016/j.envpol.2022.120411> ISI Journal Impact Factor when accepted: 8.071
2. A. Firrincieli, A. Negroni, G. Zanaroli, M. Cappelletti. **Unravelling the hydrocarbon biodegradation potential of Asgardarchaeota in a sediment from the mediterranean contaminated water basin Mar Piccolo (Taranto, Italy)**. Microorganisms (2021), 9: 859. DOI: 10.3390/microorganisms9040859 ISI Journal Impact Factor when accepted: 4.152
3. S. Notarfrancesco, E. Morselli, G. A. Martinez, J. M. Bendada Domingos, A. Negroni, F. Fava, L. Bertin. **Improved recovery of carboxylic acids using sequential cationic-anionic adsorption steps: A highly competitive ion-equilibrium model**. Separation and Purification Technology (2021), 261: 118253. DOI: 10.1016/j.seppur.2020.118253 ISI Journal Impact Factor when accepted: 5.774
4. A. Rosato, M. Barone, A. Negroni, P. Brigidi, F. Fava, P. Xu, M. Candela, G. Zanaroli. **Microbial colonization of different microplastic types and biotransformation of sorbed PCBs by a marine anaerobic bacterial community**. Science of the Total Environment (2020), 705: 135790. DOI: 10.1016/j.scitotenv.2019.135790 ISI Journal Impact Factor when accepted: 5.589
5. L. Sisti, S. Kalia, G. Totaro, M. Vannini, A. Negroni, G. Zanaroli, A. Celli. **Enzymatically Treated Curaua Fibers in Poly(butylene succinate)-based Biocomposites**. Journal of Environmental Chemical Engineering (2018), 16(4): 4452-4458. DOI: 10.1016/j.jece.2018.06.066 ISI Journal Impact Factor when accepted: 1.385
6. A. Nuzzo, A. Negroni, G. Zanaroli, F. Fava. **Identification of two organohalide-respiring Dehalococcoidia associated to different dechlorination activities in PCB-impacted marine sediments**. Microbial Cell Factories (2017), 16:127. DOI: 10.1186/s12934-017-0743-4. ISI Journal Impact Factor when accepted: 3.681
7. M. Fondi, I. Maida, E. Perri, V. Orlandini, L. La Torre, E. Bosi, A. Negroni, G. Zanaroli, F. Fava, F. Decorosi, L. Giovannetti, C. Viti, M. Vaneechoutte, L. Dijkshoorn, R. Fani. **Genomic and phenotypic characterization of the species Acinetobacter venetianus**. Scientific Reports (2016), 1-12. DOI: 10.1038/srep21985. ISI Journal Impact Factor when accepted: 5.578
8. G. Zanaroli, A. Negroni, M. Häggblom, F. Fava. **Microbial dehalogenation of organohalides in marine and estuarine environments**. Review. Current Opinion in Biotechnology (2015), 33: 287-295. DOI: 10.1016/j.copbio.2015.03.013. ISI Journal Impact Factor when accepted: 8.035
9. L. Sciubba, L. Cavani, A. Negroni, G. Zanaroli, F. Fava, C. Ciavatta, C. Marzadori. **Changes in the functional properties of a sandy loam soil amended with biosolids at different application rates**. Geoderma (2014), 221-222: 40-49. DOI: 10.1016/j.geoderma.2014.01.018. ISI Journal Impact Factor when accepted: 2.345
10. M. Marzorati, A. Negroni, F. Fava, W. Verstraete, N. Boon. **Application of a molecular based approach for the early detection of short term 3-chloroaniline shock loads on activated sludge bacterial community and functionality**. New Biotechnol (2013), 30(6): 763-771. DOI: 10.1016/j.nbt.2013.07.004. ISI Journal Impact Factor when published: 1.706

11. M Gigli, A Negroni, G Zanaroli, N Lotti, F Fava, A Munari. **Environmentally friendly PBS-based copolyesters containing PEG-like subunit: Effect of block length on solid-state properties and enzymatic degradation.** *React Funct Polymer* (2013), 73(5): 764-771. DOI:10.1016/j.reactfunctpolym.2013.03.007 ISI Journal Impact Factor when published: 2.505
12. M Gigli, A Negroni, M Soccio, G Zanaroli, N Lotti, F Fava, A Munari. **Enzymatic hydrolysis studies on novel eco-friendly aliphatic thiocopolyesters.** *Pol Degrad Stabil* (2013), 98(): 934-942. DOI:10.1016/j.polymdegradstab.2013.02.019. ISI Journal Impact Factor when published: 2.769
13. K De Roy*, M Marzorati*, A Negroni*, O Thas*, A Balloi, F Fava, W Verstraete, D Daffonchio, N Boon. **Environmental conditions and community evenness determine the outcome of biological invasion.** (2012) *Nature Communications* DOI: 10.1038/ncomms2392. ISI Journal Impact Factor when accepted: 10.015
14. A Negroni, G Zanaroli, M Vignola, A Negroni, F Fava, HY Shu. **Reductive Dechlorination of Polychlorinated biphenyls (PCBs) by means of Nanoscale Zero-Valent Nickel-Iron (NZVNI) particles.** *Environ Eng Manag J* (2012), 11(10): 1733-1739. ISI Journal Impact Factor when published: 1.435
15. M Gigli, A Negroni, M Soccio, G Zanaroli, N Lotti, F Fava, A Munari. **Influence of chemical and architectural modifications on the enzymatic hydrolysis of poly(butylene succinate).** *Green Chem* (2012), 14: 2885-2893. DOI: 10.1039/C2GC35876J. ISI Journal Impact Factor when published: 6.320
16. E Federici, M Giubilei, G. Santi, G Zanaroli, A Negroni, F Fava, M Petruccioli, A D'Annibale. **Bioaugmentation of a historically contaminated soil by polychlorinated biphenyls with *Lentinus tigrinus*.** *Microb Cell Fact* (2012), 11(35). DOI: 10.1186/1475-2859-11-35. ISI Journal Impact Factor when published: 3.550
17. G Zanaroli, A Negroni, M. Vignola, A. Nuzzo, H-Y Shu, F Fava. **Enhancement of microbial reductive dechlorination of polychlorinated biphenyls (PCB) in a marine sediment by nanoscale zerovalent iron (NZVI) particles.** *J Chem Technol Biotechnol* (2012), 87: 1246–1253 DOI: 10.1002/jctb.3835. ISI Journal Impact Factor when accepted: 1.818
18. L Bertin, C Bettini, G Zanaroli, S. Fraraccio, A Negroni, F Fava. **Acclimatization of an anaerobic consortium capable of an effective biomethanization of mechanically-sorted organic fraction of municipal solid waste through a semi-continuous enrichment procedure.** *J Chem Technol Biotechnol* (2012), 46(2): 413-24. DOI: 10.1002/jctb.3809. ISI Journal Impact Factor when accepted: 1.818
19. G Zanaroli, A Balloi, A Negroni, L Borruso, D Daffonchio, F Fava. **A *Chloroflexi* bacterium dechlorinates polychlorinated biphenyls in marine sediments under in situ-like biogeochemical conditions.** *J Haz Mat* (2012), 209-210: 449-457 DOI: 10.1016/j.jhazmat.2012.01.042. ISI Journal Impact Factor when accepted: 4.173
20. D. Di Gioia, F. Luziatelli, A. Negroni, A. G. Ficca, F. Fava, M. Ruzzi. **Metabolic engineering of *Pseudomonas fluorescens* for the production of vanillin from ferulic acid.** *J Biotechnol* (2011), 156(4): 309-16. DOI: 10.1016/j.jbiotec.2011.08.014. ISI Journal Impact Factor when accepted: 3.045
21. G Zanaroli, A Negroni, C Calisti, M Ruzzi, F Fava. **Selection of commercial hydrolytic enzymes with potential antifouling activity in marine environments.** *Enz Microb. Technol* (2011), 49(6-7): 574-579. DOI: 10.1016/j.enzmictec.2011.05.008. ISI Journal Impact Factor when accepted: 2.367
22. BFG Pycke, C Etcherbehere, P Van de Caveye, A Negroni, W Verstraete, N Boon. **A time-course analysis of four full-scale anaerobic digesters in relation to the dynamics of change of their microbial communities.** *Wat Sci Tech* (2011), 63(4): 769-775. DOI: 10.2166/wst.2011.307. ISI Journal Impact Factor when accepted: 1.122
23. G Zanaroli, A Balloi, A Negroni, D Daffonchio, LY Young, F Fava. **Characterization of the microbial community from the marine sediment of the Venice lagoon capable of reductive dechlorination of coplanar polychlorinated biphenyls (PCBs).** *J. Hazard. Mater.* (2010), 178: 417-426. DOI: 10.1016/j.jhazmat.2010.01.097. ISI Journal Impact Factor (2007-2011): 4.553
24. A Negroni, G Zanaroli, M Ruzzi, F Fava. **Biological fate of Diuron and Sea-nine®211 and their effect on primary microbial activities in slurries of a contaminated sediment from Venice Lagoon.** *Ann Microbiol* (2010), 60(2): 321-327. DOI: 10.1007/s13213-010-0044-1. ISI Journal Impact Factor when accepted: 0.350

ABSTRACT IN INTERNATIONAL SCIENTIFIC JOURNALS

E. Dal Bello, S. Rebecchi, A. Negroni, G. Zanaroli, D. Di Gioia, M. Ruzzi, F. Fava. **Vanillin production from wheat bran with *Pseudomonas fluorescens* BF13-1p.** Environmental Engineering and Management Journal (2012), 11(3): S68 ISI Journal Impact Factor for 2011: 1.435

M. Gigli, N. Lotti, A. Munari, A. Negroni, G. Zanaroli, F. Fava. **Novel eco-friendly multiblock copolymers poly(butylene/Triethylene succinate): effect of block length on mechanical properties and biodegradability.** Environmental Engineering and Management Journal. (2012), 11(3): S90 ISI Journal Impact Factor for 2011: 1.435

A Negroni, G. Bucchi, G. Zanaroli, B Castiglioni, C Consolandi, M Severgnini, G. De Bellis, F Fava. **In vitro validation of a microarray DNA-chip for the detection of dechlorinating bacteria.** Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy. Bologna, Italy. 10-12 April 2012. 11(3): S102. ISI Journal Impact Factor for 2011: 1.435

A Nuzzo, A Negroni, G. Zanaroli, F Fava. **Polychlorinated biphenyl (PCB) microbial reductive dechlorination potential in contaminated marine sediments of the Venice Lagoon.** Environmental Engineering and Management Journal. Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy. Bologna, Italy. 10-12 April 2012. 11(3): S106. ISI Journal Impact Factor for 2011: 1.435

G. Zanaroli, M. Vignola, A. Negroni, F. Fava, H.-Y. Shu. **Reductive dechlorination of polychlorinated biphenyls (PCB) by means of nanoscale zero valent Nickel-Iron (NZVNI) particles.** Environmental Engineering and Management Journal. Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy. Bologna, Italy. 10-12 April 2012. 11(3): S119. ISI Journal Impact Factor for 2011: 1.435

A Negroni, M Marzorati, F Fava, N Boon. **Microbial responses to xenobiotic shock loads in activated sludges.** Environmental Engineering and Management Journal. Environmental Microbiology and Biotechnology in the frame of the Knowledge-Based Bio and Green Economy. Bologna, Italy. 10-12 April 2012. 11(3): S132. ISI Journal Impact Factor for 2011: 1.435

A Negroni, G Zanaroli, C Calisti, M Ruzzi, F Fava. **Use of hydrolytic enzymes to prevent marine biofouling.** J Biotechnol. 14th International Biotechnology Symposium and Exhibition. Rimini, Italia. 14-18 September 2010. 150(1): 403. ISI Journal Impact Factor for 2009: 2.970

M Soccio, A Negroni, M Gigli, N Lotti, G Zanaroli, A Munari. **Enzymatic degradation of novel etheroatom-containing copolyesters based on poly(butylene succinate).** J Biotechnol. 14th International Biotechnology Symposium and Exhibition. Rimini, Italia. 14-18 September 2010. 150(1): 201. ISI Journal Impact Factor for 2009: 2.970

L Sciubba, L Cavani, C Marzadori, A Negroni, G Zanaroli, F Fava, C Ciavatta. **Eco-physiological indicators to assess soil impact of composted municipal sewage sludges.** J Biotechnol 14th International Biotechnology Symposium and Exhibition. Rimini, Italia. 14-18 September 2010. 150(1): 276-277. ISI Journal Impact Factor for 2009: 2.970

G Zanaroli, A Balloi, A Negroni, D Daffonchio, F Fava. **A Dehalococoides-like bacterium and a new reductive dehalogenase are responsible for PCB dechlorination in marine sediments under in situ biogeochemical conditions.** J Biotechnol 14th International Biotechnology Symposium and Exhibition. Rimini, Italia. 14-18 September 2010. 150(1): 270. ISI Journal Impact Factor for 2009: 2.970

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THESIS PRESENTED AS CO-SUPERVISOR

Miriam Baldini – Master Degree Environmental Engineering, University of Bologna - March, 2015. **Ottimizzazione della produzione di biosurfattanti col batterio *Bacillus* sp. R39 ottenuto da ambienti desertici salini.** Supervisor: prof. Dr. Fabio Fava; Co-supervisors: Dr. Giulio Zanaroli, Dr. Noura Raddadi, Dr. Andrea Negroni.

Marta Vignola – Master Degree Environmental Engineering, University of Bologna - 23 July, 2010 (environmental microbiology and biotechnology LS). **Development and assessment of nanoscale zerovalent Fe and Ni/Fe particles for the reductive dechlorination of Polychlorinated Biphenyls (PCBs).** Supervisor: prof. Dr. Fabio Fava; Co-supervisors: prof. Dr. Hung-Yee Shu, Dr. Giulio Zanaroli, Dr. Andrea Negroni.

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