

## ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n. 7 posto/i di Ricercatore a tempo determinato in tenure track (RTT)

per il settore concorsuale 07/E1 - CHIMICA AGRARIA, GENETICA AGRARIA E PEDOLOGIA,

settore scientifico-disciplinare AGR/13 - CHIMICA AGRARIA

presso il Dipartimento di Scienze Agrarie e Ambientali - Produzione, Territorio, Agroenergia,  
(avviso bando pubblicato sulla G.U. n. 73 del 26/09/2023) Codice concorso 5399

## Elisa CLAGNAN CURRICULUM VITAE

(N.B. IL CURRICULUM NON DEVE ECCEDERE LE 30 PAGINE E DEVE CONTENERE GLI ELEMENTI CHE IL CANDIDATO RITIENE UTILI AI FINI DELLA VALUTAZIONE.

LE VOCI INSERITE NEL FACSIMILE SONO A TITOLO PURAMENTE ESEMPLIFICATIVO E POSSONO ESSERE SOSTITUITE, MODIFICATE O INTEGRATE)

### INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	CLAGNAN
NOME	ELISA
DATA DI NASCITA	03/10/1989

### TITOLI

#### TITOLO DI STUDIO

AY 2011 - 2013	<b>M.Sc. in Functional Genomics</b> Università degli studi di Trieste  Thesis: <i>Quorum sensing studies in Pseudomonas fuscovaginae UPB 0736 a broad host range emerging plant pathogen.</i>
AY 2008 - 2011	<b>B.Sc. in Biology - Curriculum: Cellular and Molecular Biology and Technology</b> Università degli studi di Trieste  Thesis: <i>Histochemical localization of ROS in the lichen Parmotrema perlatum (Huds.) M. Choisy by confocal microscopy.</i>

#### TITOLO DI DOTTORE DI RICERCA O EQUIVALENTI, OVVERO, PER I SETTORI INTERESSATI, DEL DIPLOMA DI SPECIALIZZAZIONE MEDICA O EQUIVALENTE, CONSEGUITO IN ITALIA O ALL'ESTERO

AY 2013 - 2018	<b>PhD in Civil and Structural Engineering - Walsh fellow</b> University of Sheffield TEAGASC (The Irish Agriculture and Food Development Authority)  Thesis: <i>Nitrogen source, transformation and fate within intensive dairy systems to inform sustainable intensification.</i>
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## CONTRATTI DI RICERCA, ASSEGNI DI RICERCA O EQUIVALENTI

July 2023 – Currently	<b>Researcher (3<sup>rd</sup> Level)</b> <b>ENEA</b> (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) Casaccia Research Center - Agri-food Sustainability, Quality and Safety Lab <ul style="list-style-type: none"> <li>○ Main Projects: DELISOIL (EU project, Delivering, safe, sustainable, tailored &amp; socially accepted soil improvers from circular food production processes for boosting soil health), SUS-MIRRI (PNRR Project, Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy), BIOME-NEXT (PRIMA Project, Modelling integrated biodiversity-based next generation Mediterranean farming systems), EJP SOIL (EU project, Towards climate-smart sustainable management of agricultural soils), AGRITECH Spoke 9 (PNRR Project).</li> <li>○ Part of the microbiology staff</li> </ul>
Feb 2023 – June 2023	<b>Researcher (RTD A) - 07/I1, AGR/13</b> <b>University of Milan – Ricicla Group (DiSAA)</b> <ul style="list-style-type: none"> <li>○ Main project: Research in the field of nutrient recovery, development of microbially activated biofertilizers and CO<sub>2</sub> recovery within the activities of CN Agritech (PNRR)</li> <li>○ Manager of the molecular biology and microbiology lab;</li> <li>○ WP2 leader for the H2020 Eu project FERTIMANURE;</li> <li>○ Field and pot trials for the development of novel microbial activated biobased fertilizers;</li> <li>○ Writing proposal and reports.</li> </ul>
Oct 2020 – Jan 2023	<b>PostDoc Researcher (AdR B) and Cultore della materia</b> <b>University of Milan – Ricicla Group (DiSAA)</b> <ul style="list-style-type: none"> <li>○ Main project: SAFE BIOREFINERY: Monitoring impacts of new algae-based biorefinery;</li> <li>○ Manager of the molecular biology and microbiology lab;</li> <li>○ In charge of microbial community and pathogen characterisation (qPCR, 16S and 18S NGS analyses, DNA shotgun NGS) of microalgal biorefinery plants, digesters, microbial fuel cells chambers for project sponsored by INAIL and EU (SABANA and FERTIMANURE);</li> <li>○ Field and pot trials for the development of novel microbial activated biobased fertilizers;</li> <li>○ Writing proposal and reports.</li> </ul>
Mar 2020 - Sep 2020	<b>PostDoc Researcher (AdR B)</b> <b>Free University of Bolzano/Bozen – Environmental and Agricultural Microbiology Group /Agricultural and Agro-Environmental Sciences Group</b> <ul style="list-style-type: none"> <li>○ Main project: INSIDE – Effect of the increase in nitrogen deposition on microbial soil communities through techniques based on DNA and RNA analysis in mountain forest ecosystems;</li> <li>○ In charge of molecular analyses for projects with Università degli Studi di Milano on the evaluation of the microbial communities of alimentary dough through 16S rRNA and ITS genes ARISA.</li> </ul>
Mar 2019 - Mar 2020	<b>PostDoc Researcher (AdR B)</b> <b>Free University of Bolzano/Bozen – Environmental and Agricultural Microbiology Group</b>

- Main project: TRETILE – A microbe-based value chain: TREatment and valorisation of texTILE wastewater (collaboration with: Politecnico di Milano, Università degli Studi di Milano Bicocca, Università degli Studi di Milano, Lariana Depur s.p.a., Stamperia di Cassina Rizzardi);
- In charge of molecular analyses for projects with Università degli Studi di Trento and Rome IRSA-CNR on the evaluation of the microbial communities of multiple bioreactors;
- Evaluation of diversity, distribution and abundance of key algal, fungal and bacterial species.
- Development of qPCR methods for 16S and nitrogen cycle functional genes;
- NGS of 16S rRNA genes for bacteria, 18S and ITS for algae. Basic Shotgun Sequencing. Tailor-made bioinformatics protocols;
- Fingerprinting analysis tests (LH-PCR, ARISA);
- Confocal and epifluorescence microscopy (FISH).

#### ATTIVITÀ DIDATTICA A LIVELLO UNIVERSITARIO IN ITALIA O ALL'ESTERO

- Lecturer of the course: Soil-plant relationships of nutrients and pollutants in the agricultural system (AY 2022-2023, AGR/13, 3 CFU – 24 hours), University of Milan.
- IFTS Lecturer: Tecniche di industrializzazione del prodotto e del processo, quality management, benessere animale e tecnologie aziendali per l'agricoltura multifunzionale (AY 2022-2023, 20 hours) Fondazione Maddalena Di Canossa, Bergamo.
- IFTS Lecturer: Sustainable agriculture (AY 2022-2023, 20 hours) Fondazione Maddalena Di Canossa, Bergamo.
- Co-supervisor of a PhD student: Elboghdady HGE. Project: Improving the circularity of biodegradable bioplastics by producing biogas: a full-scale assessment (XXXVIII cycle, 2022-2025), University of Milan.
- Microbiology referent of a PhD student: Vilas Sajgule R. Project: Improving the circularity of biodegradable bioplastics (XXXVIII cycle, 2022-2025), University of Milan.
- Co-supervisor of a BSc student: Vitti Susat G. Thesis: *Evaluation of the interaction between HDPE micro and nanoplastics and P. abietaniphila and C. sordidicola using flow cytometry* (AY 2019-2020) University of Bolzano.
- Supervisor of an Erasmus+ placement student: González Rizo G (AY 2020-2021) University of Zaragoza – University of Milan.
- Supervision of 10+ high school students “Alternanza scuola lavoro” (AY 2019-2021) University of Bolzano.

#### DOCUMENTATA ATTIVITÀ DI FORMAZIONE O DI RICERCA PRESSO QUALIFICATI ISTITUTI ITALIANI O STRANIERI;

Sep 2013 - May 2018 **PhD in Civil and Structural Engineering - Walsh fellow**

2018

University of Sheffield - Groundwater Protection and Restoration Group/Animal and Plant Sciences Group

TEAGASC (The Irish Agriculture and Food Development Authority) - Johnstown Castle

- Examination of the concept of sustainable intensification in terms of impacts and relationships of drainage systems installed at intensive sites with different soil drainage classes, water quality, N transfer, N transformation, N fate and microbial community in order to develop a management tool;
- Physiochemical, gaseous, isotopic, microbial and molecular techniques;
- Plan, design, validate and carry out fieldwork, experiments and data analyses.
- Partecipation in the Heavy Soils Research Programme

Dec 2014	<p><b>Internship trainee</b></p> <p><u>Helmholtz Centre for Environmental Research – UFZ (Halle)</u></p> <ul style="list-style-type: none"> <li>Collection, analysis and data analyses of water stable isotopes such as N (<math>\text{NO}_3^-</math>, <math>\text{NH}_4^+</math>, <math>\text{N}_2\text{O}</math> and <math>\text{N}_2</math>) and <math>\text{H}_2\text{O}</math> (<math>\delta^{14/15}\text{N}</math>, <math>\delta^{1/2}\text{H}</math> and <math>\delta^{16/18}\text{O}</math>).</li> </ul>
Dec 2012 - Oct 2013	<p><b>Internship trainee</b></p> <p><u>ICGEB Trieste (International Centre for Genetic Engineering and Biotechnology) - Bacteriology and Plant Bacteriology group</u></p> <ul style="list-style-type: none"> <li>Characterisation of the genes associated to the quorum sensing of the bacterium <i>P. fuscovaginae</i> for phenotypic and molecular functions;</li> <li>Test antimicrobial activities, enzymes secretion, movement, exopolysaccharides and IAA production, biofilm formation, oxidative stress resistance, C-sources, growth curves and AHL profiling;</li> <li>Perform cloning techniques, amplifications, ligations, conjugations and RNA sequencing.</li> </ul>
Jan 2012 - Nov 2012	<p><b>Participant at the Massachusetts Institute of Technology synthetic biology competition - iGEM (International Genetically Engineered Machine)</b></p> <p><u>ICGEB Trieste - Bacteriology and Plant Bacteriology group/Molecular Immunology group</u></p> <p><u>Università degli studi di Trieste</u></p> <ul style="list-style-type: none"> <li>Engineering of a safe probiotic platform for protein expression;</li> <li>Techniques for DNA manipulation and results verification.</li> </ul>
Mar 2010 - Dec 2011	<p><b>Internship trainee</b></p> <p><u>Università degli studi di Trieste, Department of Life Science</u></p> <ul style="list-style-type: none"> <li>Perpetuation and the preparation of cultures of lichens under anoxic conditions;</li> <li>Separation of the two lichenic symbionts and perpetuation of the algal symbiont;</li> <li>Qualitative and quantitative study of reactive oxygen species.</li> </ul>

## REALIZZAZIONE DI ATTIVITÀ PROGETTUALE

Title: National Research Centre for Agricultural Technologies (Agritech) - Spoke 9

Funding entity PNRR - MUR

Duration: 2022-2025

Project coordinator: Annamaria Bevivino

Investigator for ENEA: Elisa Clagnan

Title: EJP SOIL: Towards climate-smart sustainable management of agricultural soils

Funding entity: EU project

Duration: 2020-2024

Project coordinator: Annamaria Bevivino

Investigator for ENEA: Elisa Clagnan

Title: DELISOIL: Delivering, safe, sustainable, tailored & socially accepted soilimprovers from circular food production processes for boosting soil health

Funding entity: EU project

Duration: 2022-2025  
Project coordinator: Annamaria Bevivino  
Investigator for ENEA: Elisa Clagnan

Title: SUS-MIRRI: Strengthening the MIRRI Italian Research Infrastructure for Sustainable Bioscience and Bioeconomy  
Funding entity: PNRR Project, European Commission NextGenerationEU Code N° IR00000005  
Duration: 2022-2025  
Project coordinator: Annamaria Bevivino  
Investigator for ENEA: Elisa Clagnan

Title: BIOME-NEXT: Modelling integrated biodiversity-based next generation Mediterranean farming systems  
Funding entity: PRIMA Project  
Duration: 2022-2025  
Project coordinator: Annamaria Bevivino  
Investigator for ENEA: Elisa Clagnan

Title: National Research Centre for Agricultural Technologies (Agritech) - Spoke 8  
Funding entity PNRR - MUR  
Duration: 2022-2025  
Project coordinator: Fabrizio Adani  
Principal investigator and project manager for UniMI: Elisa Clagnan

Title: Safe biorefinery: Monitoring impacts of new algae-based biorefinery  
Funding entity: BRIC INAIL 2019 n. 53  
Duration: 2019-2021  
Project coordinator: Biancamaria Pietrangeli  
Principal investigator and project manager for UniMI: Elisa Clagnan

Title: FERTIMANURE: Innovative nutrient recovery from secondary sources – Production of high-added value FERTILISERS from animal MANURE  
Funding entity: European Union's Horizon 2020 Research and Innovation Program. Grant Agreement N° 862849  
Duration: 2020-2024  
Project coordinator: Laia Llenas  
Principal investigator and project manager for UniMI: Elisa Clagnan

Title: SABANA: Sustainable Algae Biorefinery for Agriculture and Aquaculture  
Funding entity: European Union's Horizon 2020 Research and Innovation Program. Grant Agreement No. 727874  
Duration: 2017-2022  
Project coordinator: Francisco Gabriel Acien Fernandez  
Investigator for UniMI: Elisa Clagnan

Title: INSIDE: "Effect of Increased N depositions on Soil microbial communities through DNA- and RNA-based techniques in mountain forest Ecosystems  
Funding entity: Free University of Bolzano  
Duration: 2020-2022  
Project coordinator: Maurizio Ventura  
Principal investigator and project manager for UniBZ: Elisa Clagnan

Title: A microbe-based value chain: TREatment and valorisation of texTILE wastewater

Funding entity: Fondazione Cariplo and Innovhub

Duration: 2017-2022

Project coordinator: Micol Bellucci

Principal investigator and project manager for UniBZ: Elisa Clagnan

**ORGANIZZAZIONE, DIREZIONE E COORDINAMENTO DI GRUPPI DI RICERCA NAZIONALI E INTERNAZIONALI, O PARTECIPAZIONE AGLI STESSI**

*(per ciascuna voce inserire anno, ruolo, gruppo di ricerca, ecc.)*

July 2023 – ENEA (Italian National Agency for New Technologies, Energy and Sustainable  
Currently Economic Development) Casaccia Research Center - Agri-food Sustainability, Quality  
and Safety Lab  
Researcher (3<sup>rd</sup> Level)

Feb 2023 – June 2023 University of Milan – Ricicla Group (DiSAA)  
Researcher (RTD A) - 07/I1, AGR/13

Oct 2020 – Jan 2023 University of Milan – Ricicla Group (DiSAA)  
PostDoc Researcher (AdR B) and Cultore della materia

Mar 2019 - Sep 2020 Free University of Bolzano/Bozen – Environmental and Agricultural Microbiology  
Group & Agricultural and Agro-Environmental Sciences Group  
PostDoc Researcher (AdR B)

Sep 2013 - May 2018 University of Sheffield - Groundwater Protection and Restoration Group & Animal and Plant  
Sciences Group  
TEAGASC (The Irish Agriculture and Food Development Authority) - Johnstown  
Castle (Crops, Environment and Land-Use Programme) & Fermoy (Heavy Soils  
Research Programme) research centers  
PhD student

Dec 2014 Helmholtz Centre for Environmental Research – UFZ (Halle), Isotope tracer group  
Visiting PhD student

Dec 2012 - Oct 2013 ICGEB Trieste (International Centre for Genetic Engineering and Biotechnology) -  
Bacteriology and Plant Bacteriology group  
Graduate student

Jan 2012 - Nov 2012 ICGEB Trieste - Bacteriology and Plant Bacteriology group/Molecular Immunology group  
Graduate student

Mar 2010 - Dec 2011 Università degli studi di Trieste, Department of Life Science  
Lab. Ecofisiologia vegetale e animale (Biologia Ambientale)  
Undergraduate student

## ATTIVITÀ DI RELATORE A CONGRESSI E CONVEGNI NAZIONALI E INTERNAZIONALI

1. *Microbial acclimation of thermophilic anaerobic digestate enhances biomethane production and biodegradation of polylactic acid in combination with organic wastes.* Elboghdady HGE, Clagnan E, dell'Orto M, De Franceschi V, Adani F. AGRIFOODPLAST - International Conference on micro- and nano-plastics in the agri-food chain. Piacenza, Italy, 10-12 September 2023. Flash and Poster Presentation - Best Poster Award.
2. *Characterization of Bioplastic degrading microbial communities using biomolecular techniques.* Vilas Sajgule R, Clagnan E, Cucina M, Adani F. AGRIFOODPLAST - International Conference on micro- and nano-plastics in the agri-food chain. Piacenza, Italy, 10-12 September 2023. Poster Presentation.
3. *Impacts of microbiologically activated bio-based fertilizers derived from manure on tomato plants and their rhizospheric communities.* Clagnan E, Cucina M, De Nisi P, Dell'Orto M, D'Imporzano G, Kron-Morelli R, Adani F. 4th International Conference on Bioresource Technology for Bioenergy Bioproducts-and-Environmental Sustainability. Lake Garda, Italy, 14–17 May 2023. Poster Presentation.
4. *Production and assessment of biological activated bio-based fertilizers in the frame of FERTIMANURE H2020 project.* De Nisi P, Cucina M, Clagnan E, Adani F. XL Congress of Italian Society of Agricultural Chemistry, 5-7 September 2022. Poster Presentation.
5. *Wastewater treatment and nutrients enriched medium production for a sustainable agriculture.* Goglio A, Gualtieri M, Clagnan E, Adani F. Second joint meeting on soil and plant system sciences, Online Conference, 2021. Oral Presentation.
6. *Power to Gas: newsworthy connection between electricity production trend, biochar electrodes and polarizations.* Goglio A, Clagnan E, Pepè Sciarria T, Adani F. 5th European Meeting of the International Society for Microbial Electrochemistry and Technology. Online Conference, 2021. Oral Presentation.
7. *PN-Anammox for the treatment of textile wastewater: performance and microbial community of a sequencing batch reactor.* Clagnan E, Brusetti L, Visigalli S, Bargna M, Bergna G, Ficara E, Canziani R, Bellucci M. Water Energy Nexus. Online, 2020. Oral Presentation.
8. *Does drainage of poorly drained soils affect their nitrogen attenuation capacity? Evidence from six dairy farms in south Ireland.* Clagnan E, Thornton SF, Rolfe SA, Tuohy P, Murphy J, Wells NS, Knoeller K, Fenton O. Resilience Emerging from Scarcity and Abundance - International Annual Meeting of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America. Phoenix, Arizona, 2016. Oral Presentation.
9. *Nitrogen loss, source, transformation and attenuation within an intensive dairy farm in SE Ireland.* Clagnan E, Thornton SF, Rolfe SA, Tuohy P, Murphy J, Wells NS, K. Knöller, Fenton O. Groundwater Managing our Hidden Asset - Birmingham University, Birmingham, United Kingdom, 2016. Oral Presentation.
10. *Nitrogen loss, source, transformation and attenuation within an intensive dairy farm in SE Ireland.* Fenton O, Clagnan E, Thornton SF, Rolfe SA, Tuohy P, Murphy J, Wells NS, Knoeller K. 19th Nitrogen Workshop - Sveriges Lantbruks Universitet, Skara, Sweden, 27-29 June 2016. Oral Presentation.
11. *Nitrogen loss, source, transformation and attenuation on dairy farms in Ireland.* Fenton O, Clagnan E, Thornton SF, Rolfe SA, Tuohy P, Murphy J, Wells NS, Knoeller K. International Drainage Symposium, University of Minnesota, Minneapolis, Minnesota, 2016. Oral Presentation.
12. *Beyond nitrate: developing multi-isotopic approaches to quantify the fate and transport of nitrogen*

*within catchments*. Wells NS, Knoeller K, Clagnan E, Fenton O, Thornton SF, Rolfe SA, Brauns M. International Symposium on Isotope Hydrology: Revisiting Foundations and Exploring Frontiers – IAEA (International Atomic Energy Agency), Vienna, Austria, 2015. Oral Presentation.

## **CONSEGUIMENTO DI PREMI E RICONOSCIMENTI NAZIONALI E INTERNAZIONALI PER ATTIVITÀ DI RICERCA**

### **AWARDS, FELLOWSHIPS and GRANTS**

1. Researcher (3rd Level), ENEA - Concorso pubblico per titoli ed esami per il reclutamento di n. 20 unità di personale laureato da assumere con contratto di lavoro a tempo indeterminato, nel livello economico iniziale del profilo professionale del Ricercatore (Rif. 01/2019).
2. Fixed-Term Researcher (RTD-A) Fellowship, 3 years (2023) - Funded by PNRR for UNIMI  
Main project: National Research Centre for Agricultural Technologies (AgriTech) - Spoke 8 – PNRR
3. Research Assistant Fellowship (AdR A), 2 years (2023) - Funded by PNRR for UNIMI  
Main project: National Research Centre for Agricultural Technologies (AgriTech) - Spoke 8 – PNRR (Not accepted in favour of the RTD-A).
4. Research Assistant Fellowship (AdR B), 1 years (2022) - Funded by EU for UNIMI.  
Main project: European Union's Horizon 2020 Research and Innovation Program. Grant Agreement N° 862849) (FERTIMANURE).
5. Research Assistant Fellowship (AdR B), 2 years (2020) - Funded by INAIL for UNIMI.  
Main project: “Safe biorefinery: Monitoring impacts of new algae-based biorefinery”, BRIC INAIL 2019 n. 53.
6. Research Assistant Fellowship (AdR B), 1 year (2020) - Funded by UNIBZ.  
Main project: INSIDE
7. Research Assistant Fellowship (AdR B), 1 year (2019) - Funded by Fondazione Cariplo for UNIBZ.  
Main project: EU's LIFE Programme [project LIFE16ENV/IT/000345 “LIFE DeNTreat”], Fondazione Cariplo and Innovhub within the project “TRETILE” [project number 2017–1009].
8. Walsh Fellowship Award, 4 year PhD scholarship (2013) - Funded by TEAGASC
9. Gold medal (2012) - European undergraduate session iGEM competition (International Genetically Engineered Machine), M.I.T (Boston, USA)
10. Front cover art for ACS Sustainable Chemistry & Engineering associated with the manuscript “Pig slurry management producing N mineral concentrates: a full-scale case study” (vol. 11, issue 19, 2023).

## **PRODUZIONE SCIENTIFICA**

### **PUBBLICAZIONI SCIENTIFICHE**

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57199173299>

Google scholar: <https://scholar.google.it/citations?user=xhi7Mt0AAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0003-2815-5429>

### **Peer reviewed**

*International papers: 21, First author: 10, Corresponding author: 5.*



1. Clagnan E, Cucina M, Sajgule R, De Nisi P, Adani F, 2023. *Microbial community acclimatization enhances bioplastics biodegradation and biogas production under thermophilic anaerobic digestion*. Bioresource Technology, 129889. <https://doi.org/10.1016/j.biortech.2023.129889>
2. Gualtieri M, Goglio A, Clagnan E, Adani F, 2023. *The importance of the electron acceptor: comparison between flooded and tidal bioelectrochemical systems for wastewater treatment and nutrients enriched solution production*. Bioresource Technology Reports, 101617. <https://doi.org/10.1016/j.biteb.2023.101617>
3. Pioli S, Clagnan E, Chowdhury A.A, Bani A, Borruso L, Ventura M, Tonon G, Brusetti L, 2023. *Structural and functional microbial diversity in deadwood respond to decomposition dynamics*. Environmental Microbiology, 5, 1-17. <https://doi.org/10.1111/1462-2920.16459>
4. Clagnan E, Adani F, 2023. *Influence of feedstock source on the development of polyhydroxyalkonates-producing mixed microbial cultures in continuously stirred tank reactor*. New Biotechnologies, 76, 90-97. <https://doi.org/10.1016/j.nbt.2023.05.005>
5. Marazzi F, Fornaroli R, Clagnan E, Brusetti L, Ficara E, Bellucci M, Mezzanotte V, 2023. *Wastewater from textile digital printing as a substrate for microalgal growth and valorization*. Bioresource Technology, 375, 128828. <https://doi.org/10.1016/j.biortech.2023.128828>
6. Villaró S, Ación G, González-López CV, Clagnan E, Lafarga T, 2023. *Production of Arthrospira platensis BEA 005B: Biomass characterisation and use as a colouring additive in macarons*. LWT, 182, 114843. <https://doi.org/10.1016/j.lwt.2023.114843>
7. Herrera A, D'Imporzano G, Clagnan E, Pigoli A, Bonadei E, Meers E, Adani F, 2023. *Pig Slurry Management Producing N Mineral Concentrates: A Full-Scale Case Study*. ACS Sustainable Chemistry & Engineering, 11, 19, 7309–7322. <https://doi.org/10.1021/acssuschemeng.2c07016>
8. Clagnan E, Dell'Orto M, Štěrbová K, Grivalský T, Câmara Manoel J.A, Masojídek J, D'Imporzano G, Ación-Fernández F.G, Adani F, 2023. *Impact of photobioreactor design on microalgae-bacteria communities grown on wastewater: Differences between thin-layer cascade and thin-layer raceway ponds*. Bioresource Technology, 374, 128781. <https://doi.org/10.1016/j.biortech.2023.128781>
9. Clagnan E, D'Imporzano G, Dell'Orto M, Bani A, Dumbrell A.J, Parati K, Ación-Fernández F.G, Portillo-Hahnefeld A, Martel-Quintana A, Gómez-Pinchetti J.L, Adani F, 2022. *Centrate as a sustainable growth medium: Impact on microalgal inocula and bacterial communities in tubular photobioreactor cultivation systems*. Bioresource Technology, 363, 127979. <https://doi.org/10.1016/j.biortech.2022.127979>
10. Picozzi C, Clagnan E, Musatti A, Rollini M, Brusetti L, 2022. *Characterization and analysis of populations dynamics during leavening of bread-like doughs by Zymomonas mobilis wild strains*. Foods, 11, 2768. <https://doi.org/10.3390/foods11182768>
11. Clagnan E, D'Imporzano G, Dell'Orto M, Sanchez-Zuarez A, Ación-Fernandez F.G, Pietrangeli B, Adani F. 2022. *Profiling microalgal cultures growing on municipal wastewater and fertilizer media in raceway photobioreactors*. Bioresource Technology, 360, 127619. <https://doi.org/10.1016/j.biortech.2022.127619>
12. Villaró S, Sánchez-Zurano A, Ciardi M, Alarcón F.J, Clagnan E, Adani F, Morillas-España A, Álvarez C, Lafarga T, 2022. *Production of microalgae using pilot-scale thin-layer cascade photobioreactors: Effect of water type on biomass composition*. Biomass and Bioenergy, 163, 106534. <https://doi.org/10.1016/j.biombioe.2022.106534>

13. Clagnan E, Brusetti L, Pioli S, Visigalli S, Turolla A, Jia M, Bargna M, Bergna G, Ficara E, Canziani R, Bellucci M, 2021. *Microbial community and performance of a partial nitrification/anammox sequencing batch reactor treating textile wastewater*. Heliyon, 7, e08445. <https://doi.org/10.1016/j.heliyon.2021.e08445>
14. Morillas-España A, Sánchez-Zurano A, Gómez-Serrano C, Ciardi M, Acién G, Clagnan E, Adani F, Lafarga T, 2021. *Potential of the cyanobacteria Anabaena sp. and Dolichospermum sp. for being produced using wastewater or pig slurry: Validation using pilot-scale raceway reactors*. Algal Research, 60, 102517. <https://doi.org/10.1016/j.algal.2021.102517>.
15. Tomei M.C, Mosca Angelucci D, Clagnan E, Brusetti L, 2021. *Anaerobic biodegradation of phenol in wastewater treatment: achievements and limits*. Applied Microbiology and Biotechnology. <https://doi.org/10.1007/s00253-021-11182-5>
16. Visigalli S, Turolla A, Bellandi G, Bellucci M, Clagnan E, Brusetti L, Jia M, Di Cosmo R, Menin G, Bargna M, Bergna G, Canziani R, 2020. *Autotrophic nitrogen removal for decentralized treatment of ammonia-rich industrial textile wastewater: process assessment, stabilization and modelling*. Environmental Science and Pollution Research. <https://doi.org/10.1007/s11356-020-11231-y>
17. Mosca Angelucci D, Clagnan E, Brusetti L, Tomei, M.C, 2020. *Anaerobic phenol biodegradation: kinetic study and microbial community shifts under high concentrations dynamic loading*. Applied Microbiology and Biotechnology. <https://doi.org/10.1007/s00253-020-10696-8>
18. Clagnan E, Thornton S.F, Rolfe S.A, Krol D, Richards K, Lanigan G, Tuohy P, Fenton O, 2020. *Nitrogen transformation processes and gaseous emissions from a humic gley soil at two water filled pore spaces*. Soil and Tillage Research, 198. <https://doi.org/10.1016/j.still.2019.104543>
19. Clagnan E, Thornton S.F, Rolfe S.A, Wells N.S, Knoeller K, Murphy J, Tuohy P, Daly K, Healy M.G, Ezzati G, von Chamier J, Fenton O, 2019. *An integrated assessment of nitrogen source, transformation and fate within an intensive dairy system to inform management change*. PlosOne, 14(7). <https://doi.org/10.1371/journal.pone.0219479>
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Data

24/10/2023

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