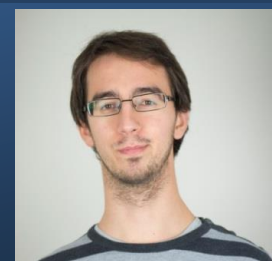


Matthieu Landreau



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Date of Birth : 09-22-1986

Nationality : French

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www.researchgate.net/profile/Matthieu_Landreau

Doctor in Microbiology

Professional Objective

Motivated doctor-engineer specialized in food and marine microbiology with experience in microbial culture (chemostats), cell immobilization and high throughput sequencing (Illumina).

Work Experience

- | | |
|---------------------------------------|---|
| Oct 2012 to March 2016
(3 years ½) | PhD at the Laboratory of Microbiology of Extreme Environments (LM2E), Brest, FRANCE, involved in MaCuMBA EU Project
Development of a continuous culture approach in gas-lift bioreactor of immobilized cells for the study of marine thermophilic anaerobic communities |
| 2013 & 2014
(64 hours each) | Teaching associate at University of Western Brittany (UBO), Brest, FRANCE
Practical classes in Microbiology (Bacteriology & Mycology) for university students |
| Mar 2012 to Aug 2012
(6 months) | Internship at the Laboratory of Microbiology of Extreme Environments (LM2E), Brest, FRANCE
Development of an immobilization technique for the study of marine thermophilic anaerobic microorganisms |
| May 2011 to Aug 2011
(3 months) | Internship at the Food Research and Development Center (FRDC), Saint-Hyacinthe, CANADA
Effect of a thermal treatment on spores of <i>G. stearothermophilus</i> in an acidified beans puree |
| Mar 2009 to June 2009
(3 months) | Internship at Martine Spécialités, Condat-sur-Trincou, FRANCE
Implementation of a management system of allergens in a pastry factory |

Education

- | | |
|---------------------------|---|
| March 2016
(3 years ½) | PhD in Marine Microbiology at Université de Bretagne Occidentale (UBO), Brest, FRANCE
Development of a continuous culture approach in gas-lift bioreactor of immobilized cells for the study of marine thermophilic anaerobic communities |
| June 2012
(3 years) | Engineering degree in Microbiology and Food safety at Ecole Supérieure d'Ingénieurs en Agroalimentaire de Bretagne Atlantique (ESIAB), Plouzané, FRANCE
Food and environmental microbiology (diversity, physiology), molecular biology (sequencing, transformation), biotechnology (fermenters, industrial processes), food products (poultry, fish, meat), chemistry (HPLC, GC), experimental design |
| June 2012
(1 year) | Master's degree in Fundamental and Applied Microbiology at Université de Bretagne Occidentale (UBO), Brest, FRANCE
Food, marine and medical microbiology, molecular biology, biotechnology |
| June 2009
(2 years) | Technical degree at Université Bordeaux 4, Périgueux, FRANCE
Food bacteriology (culture), food processing, molecular biology, biochemistry, quality |

Skills

Culture

Aerobic and anaerobic culture (plate, batch, bioreactor)
Cell immobilization
Medium preparation (aerobic and anaerobic conditions)
Microscopy (Optic, Epifluorescence, Stereo Zoom)
Cryopreservation

Counting

ATPmetry
Flow cytometry
Thoma chamber
Plate spreading
Spectrometry

Molecular biology

DNA extraction (PCI, Zu method, FreezerMill, Extraction Kit)
PCR, quantitative PCR
Restriction Fragment Length Polymorphism (RFLP)
Fluorescence In Situ Hybridization (FISH)
MiSeq sequencing

Bioinformatic

Primers design
Sequence alignment and blast (NCBI tools, Primer3, Geneious)

Other

Gas and liquid chromatography
Laser granulometry
Colorimetric determination of polymers

Statistical analysis (Fisher, ANOVA, etc)
Trainees' supervision (2 Masters, 1 Technician)
Office softwares (Microsoft Office, OpenOffice)

Science communication

2015 to 2017

- Immobilization and continuous culture of microorganisms from a hydrothermal chimney sample (Extremophiles, submitted)
- Cell immobilization in gel beads: a new method to study deep sea hydrothermal communities (Poster, ISME Conference 2016)
- Cultivation of an immobilized (hyper)thermophilic marine microbial community in a bioreactor (FEMS Microbiol Letters 2016; DOI: 10.1093/femsle/fnw194)
- Entrapment of anaerobic thermophilic and hyperthermophilic marine microorganisms in a gellan/xanthan matrix (*J Appl Microbiol* 2016; DOI: 10.1111/jam.13118)
- Entrapment of marine thermophiles and hyperthermophiles in polymer beads (Best oral award, Thermophiles 2015)

2014

- Continuous culture of immobilized thermophilic and hyperthermophilic marine anaerobic microorganisms (Talk, MaCuMBA General Assembly)
- Continuous culture of immobilized thermophilic and hyperthermophilic marine anaerobic microorganisms (Talk and Poster, 4th International Workshop on Deep Sea Microbiology)
- Les cheminées hydrothermales : oasis de vie (Talk, Forum of PhD students)
- Culture continue de microorganismes marins (hyper)thermophiles immobilisés (Talk, PhD students days)

2013

- Cell immobilization (Talk, PhD students meeting)
- Immobilization of cells from extreme environments (Talk, MaCuMBA General Assembly)
- Immobilisation de microorganismes marins isolés d'une source hydrothermale marine (Poster, GdR Archaea)

Miscellaneous

Languages: French (Mother tongue), English (TOEIC 960/990), Spanish (School level)

Driving license (+ Car)

Co-creator of the LM2E Newsletter, member of LM2E website board and member of ESIAB Newspaper

Hobbies : Sports (football, tennis), trips (Canada, Egypt, etc)

References

Pr. Mohamed Jebbar (LM2E)

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