

## CURRICULUM VITAE

### **PERSONAL INFORMATION**

Surname, Name: Bilen, Melhem Emile  
Birthdate: January 16, 1993  
Nationality: Lebanese  
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### **EDUCATION**

2019 **Postdoc research fellow** at Stanford university, bioengineering department, California USA.

2015-2018 **Ph.D** in human pathology and infectious diseases AIX Marseille university-MEPI UNIT/Faculty medicine and Balamand university Faculty of medicine.

2014- 2015 **MS. Molecular Biology**, Lebanese American University, Lebanon.

2010-2013 **BS. Biology**, Lebanese American University, Lebanon

2009 **French and Lebanese Baccalaureate in Life Sciences**, College de Notre Dame de Lourdes

### **TEACHING EXPERIENCE**

Spring 2015 **Microbiology** Lab Instructor, School of Arts and Sciences, Lebanese American University, Lebanon

- Fall 2014 **General Biology** Lab Instructor, School of Arts and Sciences, Lebanese American University, Lebanon
- Fall 2014 **Research Supervisor** for assigned BS. Biology senior year students in microbiology , School of Arts and Sciences, Lebanese American University, Lebanon
- Spring 2013 **General Biology** Lab Instructor School of Arts and Sciences, Lebanese American University, Lebanon
- Fall 2013 **General Biology** Lab assistant, School of Arts and Sciences, Lebanese American University, Lebanon
- 2009-2014 Freelance After-hours Tutor, Subjects: Genetics, Chemistry, General Biology, Math, Biostatistics, Physics, Class range: high-school students and college students.

### **WORK EXPERIENCE**

- Fall 2014 **General Biology** Lab coordinator and microbiology lab Instructor School of Arts and Sciences, Lebanese American University, Lebanon
- Spring 2014 **Cell Culture Facility Lab** supervisor, School of Arts and Sciences, Lebanese American University, Lebanon

### **LANGUAGE PROFICIENCY**

	Writing	Reading	Speaking
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	Excellent
French	Good	Excellent	Good

### **AWARDS**

- 2014 Certificate of Attendance, poster presenter at the 20<sup>th</sup> Annual LAAS Conference jointly organized by the Lebanese Association for the

Advancement of Science, EDST-LU and National Council for Scientific Research

- 2015 Certificate of Attendance, poster presenter at LAU- MSA 3<sup>rd</sup> Annual Medical Research Symposium
- 2017 American society for microbiology young ambassador to Lebanon
- 2018 Certificate of Attendance, ESCAR International **Congress** on **Rickettsia** and other Intracellular Bacteria, Marseille (France).
- 2018 American society for microbiology young ambassador to Lebanon
- 2019 Best published literature review according to Infectiopôle Sud - IHU Méditerranée Infection
- 2019 Certificate of attendance, Microbe 2019, San Francisco.

### **MISCELLANEOUS QUALIFICATIONS**

Computer Literacy

Bioinformatics tools (Mira, Rast, CLC, DNAPlotter, Mega...)

Office Processing (MS word, MS Excel, MS PowerPoint)

### **LAB TECHNIQUES**

- Culturomics
- Metagenomics
- Taxono-genomics
- Whole Genome Sequencing
- PCR
- Real-Time PCR
- Gel electrophoresis
- MALDI-TOF MS
- Cell culture
- Western Blot

**Publications:**

**Published Manuscripts (CITED BY 630)**

1. Melhem Bilen, Jean-Charles Dufour, Jean-Christophe Lagier, Frédéric Cadoret, Ziad Daoud, Grégory Dubourg, Didier Raoult: *The contribution of culturomics to the repertoire of isolated human bacterial and archaeal species*. **Microbiome** 12/2018; 6(1)., DOI:10.1186/s40168-018-0485-5
2. Lagier JC, Kheliaffa S, Tidjani Alou M, Sokhna Ndongo, Niokhor Dione, Perrine Hugon, Aurelia Caputo, Frédéric Cadoret, Sory Ibrahima Traore, El Hadji Seck, Gregory Dubourg, Guillaume Durand, Gaël Mourembou, Elodie Guilhot, Amadou Togo, Sara Bellali, Dipankar Bachar, Nadim Cassir, Fadi Bittar, Jérémy Delerce, Morgane Mailhe, Davide Ricaboni, Melhem Bilen, Dangui NPM, Ndeye Mery Dia Badiane, Camille Valles, Donia Mouelhi, Khoudia Diop, Matthieu Million, Didier Musso, Jônatas Abrahão, Esam Ibraheem Azhar, Fehmida Bibi, Muhammad Yasir, Aldiouma Diallo, Cheikh Sokhna, Felix Djossou, Véronique Vitton, Robert CT, Jean Marc Rolain, La Scola B, Fournier PE, Anthony Levasseur, Didier Raoult: *Culture of previously uncultured members of the human gut microbiota by culturomics*. **Nature Microbiology** 11/2016; 1., DOI:10.1038/nmicrobiol.2016.203
3. Jean-Christophe Lagier, Grégory Dubourg, Matthieu Million, Frédéric Cadoret, Melhem Bilen, Florence Fenollar, Anthony Levasseur, Jean-Marc Rolain, Pierre-Edouard Fournier, Didier Raoult: *Culturing the human microbiota and culturomics*. **Nature Reviews Microbiology** 06/2018;, DOI:10.1038/s41579-018-0041-0
4. Melhem Bilen, Maxime Descartes Mbogning Fonkou, Grégory Dubourg, Enora Tomei, Magali Richez, Jérémy Delerce, Anthony Levasseur, Ziad Daoud, Didier Raoult, Frédéric Cadoret: *Dysgonomonas massiliensis sp. nov., a new species isolated from the human gut and its taxonogenomic description*. **Antonie van Leeuwenhoek** 01/2019;, DOI:10.1007/s10482-019-01227-1
5. Melhem Bilen, Mbogning FONKOU Maxime Descartes, Aurelia Caputo, Thi-Thien Nguyen, Fabrizio Di Pinto, Fadi Bittar, Ziad Daoud, Anthony Levasseur, Pierre Edouard Fournier, Didier Raoult, Frédéric Cadoret: *Phoenicibacter congongensis gen. nov., sp. nov., a new genus isolated from the human gut and its description using a taxonogenomic approach*. **Antonie van Leeuwenhoek** 12/2018;, DOI:10.1007/s10482-018-01211-1
6. Sory Ibrahima Traore, Melhem Bilen, Mamadou Beye, Awa Diop, Maxime Descartes Mbogning Fonkou, Mamadou Lamine Tall, Caroline Michelle, Muhammad Yasir, Esam Ibraheem Azhar, Fehmida Bibi, Fadi Bittar, Asif Ahmad Jiman-Fatani, Ziad Daoud, Frédéric Cadoret, Pierre-Edouard Fournier, Sophie Edouard: *Noncontiguous finished genome sequence and description of Raoultibacter massiliensis gen. nov., sp. nov. and Raoultibacter timonensis sp. nov., two new bacterial species isolated from the human gut*. **MicrobiologyOpen** 01/2019;, DOI:10.1002/mbo3.758
7. Melhem Bilen, Maxime Descartes Mbogning Fonkou, Saber Khelaifia, Enora Tomei, Frédéric Cadoret, Ziad Daoud, Nicholas Armstrong, Fadi Bittar, Pierre-Edouard Fournier, Didier Raoult, Gregory Dubourg: *Taxonogenomics description of Parabacteroides timonensis sp. nov. isolated from a human stool sample*. **MicrobiologyOpen** 10/2018;, DOI:10.1002/mbo3.702
8. Melhem Bilen, Maxime D. Mbogning Fonkou, Thi T. Nguyen, Magali Richez, Ziad Daoud, Pierre E. Fournier, Didier Raoult, Frédéric Cadoret: *Miniphocibacter massiliensis*

- gen. nov., sp. nov., a new species isolated from the human gut and its taxono-genomics description. **MicrobiologyOpen** 10/2018;; DOI:10.1002/mbo3.735*
9. Jean-Christophe Lagier, Melhem Bilen, Frédéric Cadoret, Michel Drancourt, Pierre-Edouard Fournier, Bernard La Scola, Didier Raoult: *Naming microorganisms: The contribution of the IHU Mediteranee Infection, Marseille, France. **NMNI journal** 08/2018; 26., DOI:10.1016/j.nmni.2018.08.006*
  10. Melhem Bilen, Mamadou Beye, Mbogning FONKOU Maxime Descartes, Saber Khelaifia, Frédéric Cadoret, Nicholas Armstrong, Thi Tien Nguyen, Jeremy Delerce, Ziad Daoud, Didier Raoult, Pierre-Edouard Fournier: *Genomic and phenotypic description of the newly isolated human species **Collinsella bouchesdurhonensis sp. nov.** **MicrobiologyOpen** 06/2018;; DOI:10.1002/mbo3.580*
  11. Melhem Bilen, Mbogning FONKOU Maxime Descartes, Enora Tomei, Fadi Bittar, Jean-Christophe Lagier, Ziad Daoud, Pierre-Edouard Fournier, Didier Raoult, Frédéric Cadoret: *Eggerthella timonensis sp. nov., a new species isolated from the stool sample of a pygmy female. **MicrobiologyOpen** 06/2018;; DOI:10.1002/mbo3.575*
  12. Claudia Andrieu, Morgane Mailhe, Davide Ricaboni, Maxime Descartes Mbogning Fonkou, Melhem Bilen, Frédéric Cadoret, Enora Tomei, Nicholas Armstrong, Véronique Vitton, Alban Benezech, Bernard Davoust, Anthony Levasseur, Jean-Christophe Lagier, Pierre-Edouard Fournier, Didier Raoult: *Non-contiguous finished genome sequences and description of **Bacteroides mediterraneensis sp. nov.**, **Bacteroides ihuae sp. nov.**, **Bacteroides togonis sp. nov.**, **Bacteroides ndongoniae sp. nov.**, **Bacteroides ilei sp. nov.**, **Bacteroides congonensis sp. nov.**, identified by culturomics. **NMNI journal** DOI:10.1016/j.nmni.2018.06.006*
  13. Maxime Descartes Mbogning Fonkou, Morgane Mailhe, Sokhna Ndongo, Davide Ricaboni, Aurélie Morand, Florent Cornu, Maryam Tidjani Alou, Melhem Bilen, Claudia Andrieu, Anthony Levasseur, Frédéric Cadoret, Didier Raoult: *Non-contiguous finished genome sequences and descriptions of **Actinomyces ihuae**, **Actinomyces bouchesdurhonensis**, **Actinomyces urinae**, **Actinomyces marseillensis**, **Actinomyces mediterranea** and **Actinomyces oralis sp.nov.** identified by Culturomics. **NMNI journal** 06/2018; 25., DOI:10.1016/j.nmni.2018.06.004*
  14. Melhem Bilen, Maxime Descartes Mbogning Fonkou, Frédéric Cadoret, Gregory Dubourg, Ziad Daoud, Didier Raoult: ***Sanguibacter massiliensis sp. nov.**, **Actinomyces minihominis sp. nov.**, **Clostridium minihomine sp. nov.**, **Neobittarella massiliensis gen. nov.**, and **Miniphocibacter massiliensis gen. nov.**, new bacterial species isolated by culturomics from human stool samples. **NMNI journal** 03/2018; 24., DOI:10.1016/j.nmni.2018.03.002*
  15. Maxime Descartes Mbogning Fonkou, Melhem Bilen, Frederic Cadoret, Pierre-Edouard Fournier, Gregory Dubourg, Didier Raoult: *“**Enterococcus timonensis**” sp. nov., “**Actinomyces marseillensis**” sp. nov., “**Leptotrichia massiliensis**” sp. nov., “**Actinomyces pacaensis**” sp. nov., “**Actinomyces oralis**” sp. nov., “**Actinomyces culturomici**” sp. nov., and “**Gemella massiliensis**” sp. nov., new bacterial species isolated from the human respiratory microbiome. 12/2017; 22(C)., **NMNI journal** DOI:10.1016/j.nmni.2017.12.005*
  16. Melhem Bilen, Frédéric Cadoret, Magali Richez, Enora Tomei, Ziad Daoud, Didier Raoult, Pierre-Edouard Fournier, Didier: ***Libanicoccus massiliensis gen. nov.**, sp. nov., a new bacterium isolated from human stool. 11/2017; 21(C)., DOI:10.1016/j.nmni.2017.11.001*
  17. Bérangère Nicaise, Melhem Bilen, Frédéric Cadoret, Florence Bretelle, Florence Fenollar: *“**Lactobacillus raoultii**” sp. nov., a new bacterium isolated from the vaginal flora of a woman with bacterial vaginosis. 10/2017; 21(C)., DOI:10.1016/j.nmni.2017.10.006*
  18. Samia Benamar, Jacques Y. Bou Khalil, Caroline Blanc-Tailleur, Melhem Bilen, Lina Barrassi, Bernard La Scola: ***Developmental Cycle and Genome Analysis of Protochlamydia***

- massiliensis* sp. nov. a New Species in the Parachlamydiaceae Family. *Frontiers in Cellular and Infection Microbiology* 08/2017; 7:385., DOI:10.3389/fcimb.2017.00385
19. Melhem Bilen, Frédéric Cadoret, Gregory Dubourg, Ziad Daoud, Pierre Edouard Fournier, Didier Raoult: « *Olsenella congongensis* » sp.nov., identified in human stool sample. 06/2017; 19(C)., DOI:10.1016/j.nmni.2017.05.013
  20. M. Bilen, F. Cadoret, Z. Daoud, P.-E. Fournier, D. Raoult: "Eggerthella timonensis" gen. nov. isolated from a human stool sample..
  21. Melhem Bilen, Frédéric Cadoret, Gregory Dubourg, Pierre-Edouard Fournier, Ziad Daoud, Didier Raoult: " *Phoenicibacter massiliensis* " gen. nov., sp. nov. , a new bacterium isolated from the human gut of a pygmy woman. 04/2017; 19(C)., DOI:10.1016/j.nmni.2017.04.003
  22. M. Bilen, F. Cadoret, P.-E. Fournier, Z. Daoud, D. Raoult: " *Libanicoccus massiliensis* " gen. nov., sp. nov., a new bacterium isolated from a stool sample from a pygmy woman..
  23. Melhem Bilen, Frédéric Cadoret, Gregory Dubourg, Ziad Daoud, Pierre-Edouard Fournier, Didier Raoult: " *Gabonibacter timonensis* " sp., nov., a new bacterium isolated from the human gut of a pygmy female. 12/2016; 16(C)., DOI:10.1016/j.nmni.2016.12.017
  24. Melhem Bilen, Maxime Descartes Mbogning, Frédéric Cadoret, Gregory Dubourg, Ziad Daoud, Pierre Edouard Fournier, Didier Raoult: " *Pygmaibacter massiliensis* " sp., nov., a new bacterium isolated from the human gut of a pygmy female. 12/2016; 16(C)., DOI:10.1016/j.nmni.2016.12.015
  25. Melhem Bilen, Frédéric Cadoret, Gregory Dubourg, Ziad Daoud, Pierre-Edouard Fournier, Didier Raoult: " *Raoultibacter timonensis* " gen. nov., sp. nov. , a new bacterium isolated from the human gut of a pygmy female. 12/2016; 16(C)., DOI:10.1016/j.nmni.2016.12.016
  26. Melhem Bilen, Frédéric Cadoret, Ziad Daoud, Pierre Edouard Fournier, Didier Raoult: « *Collinsella bouchesdurhonensis* » sp.nov., identified in human stool sample. 11/2016; 17(C)., DOI:10.1016/j.nmni.2016.11.004
  27. Melhem Bilen, Ndongo Sokhna, Cadoret Frederic, Dubourg Gregory, Ziad Daoud, Pierre-Edouard Fournier, Didier Raoult: " *Mobilobacterium massiliense* " gen.nov. and " *Mobilobacterium timonense* " sp.nov., identified in human stool specimen. 11/2016; 15(C)., DOI:10.1016/j.nmni.2016.11.008
  28. Melhem Bilen, Frédéric Cadoret, Ziad Daoud, Pierre Edouard Fournier, Didier Raoult: " *Congobacterium massiliense* " gen. nov. sp. nov. , a new bacterium isolated from the human gut of a pygmy female. 11/2016; 15(C)., DOI:10.1016/j.nmni.2016.11.005
  29. Melhem Bilen, Frédéric Cadoret, Ziad Daoud, Pierre-Edouard Fournier, Didier Raoult: « *Eggerthella timonensis* » gen.nov., isolated from a human stool sample. 11/2016; 17(C)., DOI:10.1016/j.nmni.2016.11.001
  30. Melhem Bilen, Frederic Cadoret, Ziad Daoud, Pierre-Edouard Fournier: *Bacteroides congongensis* sp. nov., a new bacterial species from the human gut microbiota. 11/2016; 2., DOI:10.1016/j.humic.2016.11.004
  31. Melhem Bilen, Frederic Cadoret, Ziad Daoud, Pierre-Edouard Fournier, Didier Raoult: *Parabacteroides timonensis* sp. nov., identified in human stool. 10/2016; 2., DOI:10.1016/j.humic.2016.10.002
  32. Melhem Bilen, Frédéric Cadoret, Pierre-Edouard Fournier, Ziad Daoud, Didier Raoult: " *Libanus massiliensis* " gen. nov., sp. nov. , a new bacterium isolated from the human gut of a pygmy female.. 10/2016;, DOI:10.1016/j.nmni.2016.10.006
  33. T.Takakura, R. Francis, H.Anani, M.Bilen, D.Raoult, J.Y.Bou Khalil. *Anaerosphaera massiliensis* sp. nov., a new bacterium isolated from the stool of a 39-year-old Pygmy. <https://doi.org/10.1016/j.nmni.2019.100633>

34. M.Boxberger, I. Hasni, M.Bilen, B.La Scola. *Corynebacterium neomassiliense* sp. nov., a new bacterium isolated from a healthy pygmy male stool sample.  
<https://doi.org/10.1016/j.nmni.2019.100644>
35. Takakura , Francis R, Anani H, Bilen, Raoult D, Bou Khalil JY. *Enterococcus mediterraneensis* sp. nov., a new bacterium isolated from the stool of a 39-year-old Pygmy.  
10.1016/j.nmni.2019.100599