

## Microbiology Department Publications 2020-...

### 2020

- Agbota, Gino, Nadine Fievet, Barbara Heude, Manfred Accrombessi, Urbain Ahouayito, Emmanuel Yovo, Djamirou Dossa, et al. 2020. Poor Maternal Anthropometric Status before Conception Is Associated with a Deleterious Infant Growth during the First Year of Life: A Longitudinal Preconceptional Cohort. *Pediatric Obesity* **15** (1): e12573.  
<https://doi.org/10.1111/ijpo.12573>.
- Ammam, Fariza, Delphine Patin, Héloïse Coullon, Didier Blanot, Thierry Lambert, Dominique Mengin-Lecreulx, and Thomas Candela. 2020. AsnB Is Responsible for Peptidoglycan Precursor Amidation in *Clostridium Difficile* in the Presence of Vancomycin. *Microbiology (Reading, England)* **166** (6): 567–78.  
<https://doi.org/10.1099/mic.0.000917>.
- Aubry, C. Eacute Line, Paolo Clerici, Claude Gerbaud, Laurent Micouin, Jean-Luc Pernodet, and Sylvie Lautru. 2020. Revised Structure of Anthelvencin A and Characterization of the Anthelvencin Biosynthetic Gene Cluster. *ACS Chemical Biology* **15** (4): 945–51.  
<https://doi.org/10.1021/acscchembio.9b00960>.
- Badel, Catherine, Violette Da Cunha, Ryan Catchpole, Patrick Forterre, and Jacques Oberto. 2020. WASPS: Web-Assisted Symbolic Plasmid Synteny Server. *Bioinformatics* **36** (5): 1629–31.  
<https://doi.org/10.1093/bioinformatics/btz745>.
- Badel, Catherine, Violette Da Cunha, Patrick Forterre, and Jacques Oberto. 2020. Pervasive Suicidal Integrases in Deep-Sea Archaea. *Molecular Biology and Evolution* **37** (6): 1727–43.  
<https://doi.org/10.1093/molbev/msaa041>.
- Barreteau, H el ene, Delphine Patin, Ahmed Bouhss, Didier Blanot, Dominique Mengin-Lecreulx, and Thierry Touz e. 2020. CbrA Mediates Colicin M Resistance in *Escherichia Coli* through Modification of Undecaprenyl-Phosphate-Linked Peptidoglycan Precursors. *Journal of Bacteriology* **202** (23): e00436-20.  
<https://doi.org/10.1128/JB.00436-20>.
- Berny, Cl ement, Raphael Le F evre, Fran ois Guyot, Karine Blondeau, Christine Guizonne, Emilie Rousseau, Nicolas Bayan, and Edouard Alphan ery. 2020. A Method for Producing Highly Pure Magnetosomes in Large Quantity for Medical Applications Using *Magnetospirillum Gryphiswaldense* MSR-1 Magnetotactic Bacteria Amplified in Minimal Growth Media. *Frontiers in Bioengineering and Biotechnology* **8**: 16.  
<https://doi.org/10.3389/fbioe.2020.00016>.
- Boes, Adrien, Jean Michel Brunel, Adeline Derouaux, Fr ed eric Kerff, Ahmed Bouhss, Thierry Touze, Eefjan Breukink, and Mohammed Terrak. 2020. Squalamine and Aminosterol Mimics Inhibit the Peptidoglycan Glycosyltransferase Activity of PBP1b. *Antibiotics (Basel, Switzerland)* **9** (7): 373.  
<https://doi.org/10.3390/antibiotics9070373>.
- Boes, Adrien, Frederic Kerff, Raphael Herman, Thierry Touze, Eefjan Breukink, and Mohammed Terrak. 2020. The Bacterial Cell Division Protein Fragment EFTsN Binds to and Activates the Major Peptidoglycan Synthase PBP1b. *The Journal of Biological Chemistry* **295** (52): 18256–65.  
<https://doi.org/10.1074/jbc.RA120.015951>.

- Bourgeois, Gabrielle, Jérôme Seguin, Morgan Babin, Muriel Gondry, Yves Mechulam, and Emmanuelle Schmitt. 2020. Structural Basis of the Interaction between Cyclodipeptide Synthases and Aminoacylated tRNA Substrates. *RNA (New York, N.Y.)*, **26**: 1589-1602  
<https://doi.org/10.1261/rna.075184.120>.
- Brázda, Václav, Yu Luo, Martin Bartas, Patrik Kaura, Otilia Porubiaková, Jiří Šťastný, Petr Pečinka, et al. 2020. G-Quadruplexes in the Archaea Domain. *Biomolecules* **10** (9): 1349  
<https://doi.org/10.3390/biom10091349>.
- Canu, Nicolas, Mireille Moutiez, Pascal Belin, and Muriel Gondry. 2020. Cyclodipeptide Synthases: A Promising Biotechnological Tool for the Synthesis of Diverse 2,5-Diketopiperazines. *Natural Product Reports* **37**: 312 – 321.  
<https://doi.org/10.1039/c9np00036d>.
- Canu, Nicolas, Carine Tellier, Morgan Babin, Robert Thai, Inès Ajel, Jérôme Seguin, Olivier Cinquin, et al. 2020. Flexizyme-Aminoacylated Shortened TRNAs Demonstrate That Only the Aminoacylated Acceptor Arms of the Two TRNA Substrates Are Required for Cyclodipeptide Synthase Activity. *Nucleic Acids Research*, **48** (20): 11615–25.  
<https://doi.org/10.1093/nar/gkaa903>.
- Chenebault, Célia, Encarnación Diaz-Santos, Xavier Kammerscheit, Sigrid Görden, Cristian Illoaia, Simona Streckaite, Andrew Gall, et al. 2020. A Genetic Toolbox for the New Model Cyanobacterium *Cyanothece* PCC 7425: A Case Study for the Photosynthetic Production of Limonene. *Frontiers in Microbiology* **11**: 586601.  
<https://doi.org/10.3389/fmicb.2020.586601>.
- Claude, Caroline, Akash Deep, Martin Kneyber, Salman Siddiqui, Sylvain Renolleau, Luc Morin, Emmanuel Jacquemin, et al. 2020. PCLIF-SOFA Is a Reliable Outcome Prognostication Score of Critically Ill Children with Cirrhosis: An ESPNIC Multicentre Study. *Annals of Intensive Care* **10** (1): 137.  
<https://doi.org/10.1186/s13613-020-00753-w>.
- Croitoru, Anastasia, Morgan Babin, Hannu Myllykallio, Alexey Aleksandrov, and Muriel Gondry. 2020. Cyclodipeptide Synthases of the NYH Subfamily Recognize TRNA Using an  $\alpha$ -Helix Enriched with Positive Residues. *Biochemistry*, First published in December 2020.  
<https://doi.org/10.1021/acs.biochem.0c00761>.
- Dautin, Nathalie, Manuela Argenti, Niloofar Mohiman, Cécile Labarre, David Cornu, Laila Sago, Mohamed Chami, et al. 2020. Role of the Unique, Non-Essential Phosphatidylglycerol::Prolipoprotein Diacylglyceryl Transferase (Lgt) in *Corynebacterium Glutamicum*. *Microbiology*, **166** (8): 759–76.  
<https://doi.org/10.1099/mic.0.000937>.
- David, Michelle, Clara Lejeune, Sonia Abreu, Annabelle Thibessard, Pierre Leblond, Pierre Chaminade, and Marie-Joelle Virolle. 2020. Negative Correlation between Lipid Content and Antibiotic Activity in *Streptomyces*: General Rule and Exceptions. *Antibiotics* **9** (6): 280.  
<https://doi.org/10.3390/antibiotics9060280>.
- De Luca, Daniele, Lucilla Rava, Simon Nadel, Pierre Tissieres, Orsola Gawronski, Elisabeth Perkins, Giovanna Chidini, and David G. Tingay. 2020. The EPICENTRE (ESPNIC Covid PEdiatric Neonatal Registry) Initiative: Background and Protocol for the International SARS-CoV-2 Infections Registry. *European Journal of Pediatrics*, **179**: 1271–78.  
<https://doi.org/10.1007/s00431-020-03690-9>.

- Dietrich, Christiane, Ines Li de la Sierra-Gallay, Muriel Masi, Eric Girard, Nathalie Dautin, Florence Constantinesco-Becker, Maryelle Tropis, Mamadou Daffé, Herman van Tilbeurgh, and Nicolas Bayan. 2020. The C-Terminal Domain of *Corynebacterium Glutamicum* Mycolyltransferase A Is Composed of Five Repeated Motifs Involved in Cell Wall Binding and Stability. *Molecular Microbiology* **114** (1): 1–16.  
<https://doi.org/10.1111/mmi.14492>.
- Dohna Schwake, Christian, Tamazoust Guiddir, Gaelle Cuzon, Mohamed-Rida Benissa, Cécile Dubois, Jordi Miatello, Zied Merchaoui, Philippe Durand, Pierre Tissieres, and Bicêtre Pediatric Liver Transplant Group. 2020. Bacterial Infections in Children after Liver Transplantation: A Single Center Surveillance Study of 345 Consecutive Transplantations. *Transplant Infectious Disease: An Official Journal of the Transplantation Society* **22** (1): e13208.  
<https://doi.org/10.1111/tid.13208>.
- Geslain, Guillaume, Jordi Miatello, Simon Barreault, Charlie de Melo, Philippe Durand, Anna Deho, Jérôme Naudin, et al. 2020. Paediatric Intensive Care Unit Mutation to Adult Unit during the Initial Covid-19 Wave: Does It Make Sense? *Minerva Anestesiologica*, First published in September 2020.  
<https://doi.org/10.23736/S0375-9393.20.14935-6>.
- Goto, Shiori, Tsubasa Ohbayashi, Kazutaka Takeshita, Teruo Sone, Yu Matsuura, Peter Mergaert, and Yoshitomo Kikuchi. 2020. A Peptidoglycan Amidase Mutant of *Burkholderia Insecticola* Adapts an L-Form-like Shape in the Gut Symbiotic Organ of the Bean Bug *Riptortus Pedestris*. *Microbes and Environments* **35** (4).  
<https://doi.org/10.1264/jsme2.ME20107>.
- Guglielmini, Julien, Anthony C. Woo, Mart Krupovic, Patrick Forterre, and Morgan Gaia. 2020. Reply to Ku and Sun: Ancestors of Modern Giant and Large Eukaryotic DsDNA Viruses Infected Proto-Eukaryotes. *Proc. Natl. Acad. Sci. USA* **117** (6): 2749–50.  
<https://doi.org/10.1073/pnas.1920855117>.
- Hayoun, Karim, Olivier Pible, Pauline Petit, François Allain, Virginie Jouffret, Karen Culotta, Corinne Rivasseau, Jean Armengaud, and Béatrice Alpha-Bazin. 2020. Proteotyping Environmental Microorganisms by Phylopeptidomics: Case Study Screening Water from a Radioactive Material Storage Pool. *Microorganisms* **8** (10): 1525.  
<https://doi.org/10.3390/microorganisms8101525>.
- Kammerscheit, Xavier, Arnaud Hecker, Nicolas Rouhier, Franck Chauvat, and Corinne Cassier-Chauvat. 2020. Methylglyoxal Detoxification Revisited: Role of Glutathione Transferase in Model Cyanobacterium *Synechocystis* Sp. Strain PCC 6803. *MBio* **11** (4): e00882-20.  
<https://doi.org/10.1128/mBio.00882-20>.
- Kargarpour Kamakoli, Mansour, Ghazaleh Farmanfarmaei, Morteza Masoumi, Sharareh Khanipour, Safoora Gharibzadeh, Christophe Sola, Abolfazl Fateh, Seyed Davar Siadat, Guislaine Refregier, and Farzam Vaziri. 2020. Prediction of the Hidden Genotype of Mixed Infection Strains in Iranian Tuberculosis Patients. *International Journal of Infectious Diseases* **95**: 22–27.  
<https://doi.org/10.1016/j.ijid.2020.03.056>.
- Kikuchi, Yoshitomo, Tsubasa Ohbayashi, Seonghan Jang, and Peter Mergaert. 2020. *Burkholderia Insecticola* Triggers Midgut Closure in the Bean Bug *Riptortus Pedestris* to Prevent Secondary Bacterial Infections of Midgut Crypts. *The ISME Journal*, **14**: 1627–38.  
<https://doi.org/10.1038/s41396-020-0633-3>.
- Klotoe, Bernice J., Natalia Kurepina, Elena Zholdibayeva, S. Panaiotov, Barry N. Kreiswirth, Richard Anthony, Christophe Sola, and Guislaine Refrégier. 2020. NTF-RINT, a New Method for the

- Epidemiological Surveillance of MDR Mycobacterium Tuberculosis L2/Beijing Strains. *Tuberculosis (Edinburgh, Scotland)* **120**: 101894.  
<https://doi.org/10.1016/j.tube.2019.101894>.
- Le Chevalier, Fabien, Isabelle Correia, Lucrèce Matheron, Morgan Babin, Mireille Moutiez, Nicolas Canu, Muriel Gondry, Olivier Lequin, and Pascal Belin. 2020. In Vivo Characterization of the Activities of Novel Cyclodipeptide Oxidases: New Tools for Increasing Chemical Diversity of Bioproduced 2,5-Diketopiperazines in Escherichia Coli. *Microbial Cell Factories* **19** (1): 178.  
<https://doi.org/10.1186/s12934-020-01432-y>.
- Lima, Rui M., Salome Kylarová, Peter Mergaert, and Éva Kondorosi. 2020. Unexplored Arsenals of Legume Peptides With Potential for Their Applications in Medicine and Agriculture. *Frontiers in Microbiology* **11**: 1307.  
<https://doi.org/10.3389/fmicb.2020.01307>.
- Lioy, Virginia, Jean-Noel Lorenzi, Soumaya Najah, Thibault Poinignon, Herve Leh, Corinne Saulnier, Bertrand Aigle, et al. 2020. Dynamics of the Compartmentalized Streptomyces Chromosome during Metabolic Differentiation. *BioRxiv*, December, 2020.12.09.415976.  
<https://doi.org/10.1101/2020.12.09.415976>.
- Marine, Evrevin, Hermet Loïc, Guillet-Caruba Christelle, Nivose Pierre-Louis, Sordoillet Vallier, Mellon Guillaume, Dulioust Anne, and Doucet-Populaire Florence. 2020. Improving Tuberculosis Management in Prisons: Impact of a Rapid Molecular Point-of-Care Test. *The Journal of Infection*, First published in December 2020.  
<https://doi.org/10.1016/j.jinf.2020.11.042>.
- Masoud, Khaldoun, George F. Araj, Lina Reslan, Sukayna Fadlallah, Michel Wehbe, Lina Itani, Aline Avedissian, et al. 2020. Spoligotyping of Mycobacterium Tuberculosis Isolates Using Luminex®-Based Method in Lebanon. *Journal of Infection in Developing Countries* **14** (8): 878–85.  
<https://doi.org/10.3855/jidc.12072>.
- Mergaert, Peter. 2020. Chapter Six - Differentiation of Symbiotic Nodule Cells and Their Rhizobium Endosymbionts. In *Advances in Botanical Research*, edited by Pierre Frenedo, Florian Frugier, and Catherine Masson-Boivin, **94**:149–80. Regulation of Nitrogen-Fixing Symbioses in Legumes. Academic Press.  
<https://doi.org/10.1016/bs.abr.2019.09.008>.
- Mergaert, Peter, Attila Kereszt, and Eva Kondorosi. 2020. Gene Expression in Nitrogen-Fixing Symbiotic Nodule Cells in Medicago Truncatula and Other Nodulating Plants. *The Plant Cell* **32** (1): 42–68.  
<https://doi.org/10.1105/tpc.19.00494>.
- Millan-Oropeza, Aaron, Celine Henry, Clara Lejeune, Michelle David, and Marie-Joelle Virolle. 2020. Expression of Genes of the Pho Regulon Is Altered in Streptomyces Coelicolor. *Scientific Reports* **10** (1): 8492.  
<https://doi.org/10.1038/s41598-020-65087-w>.
- Morin, Loïc, Anne Goubet, Céline Madigou, Jean-Jacques Pernelle, Karima Palmier, Karine Labadie, Arnaud Lemainque, et al. 2020. Colonization Kinetics and Implantation Follow-up of the Sewage Microbiome in an Urban Wastewater Treatment Plant. *Scientific Reports* **10** (1): 11634.  
<https://doi.org/10.1038/s41598-020-68496-z>.
- Ohbayashi, Tsubasa, Peter Mergaert, and Yoshitomo Kikuchi. 2020. Chapter Two - Host-Symbiont Specificity in Insects: Underpinning Mechanisms and Evolution. In *Advances in Insect Physiology*,

edited by Kerry M. Oliver and Jacob A. Russell, **58**:27–62. Mechanisms Underlying Microbial Symbiosis. Academic Press.

<https://doi.org/10.1016/bs.aiip.2020.03.002>.

Oulghazi, Saïd, Mohieddine Moumni, Slimane Khayi, Kévin Robic, Sohaib Sarfraz, Céline Lopez-Roques, Céline Vandecasteele, and Denis Faure. 2020. Diversity of Pectobacteriaceae Species in Potato Growing Regions in Northern Morocco. *Microorganisms* **8** (6): 895.

<https://doi.org/10.3390/microorganisms8060895>.

Peltier, Johann, Audrey Hamiot, Julian R. Garneau, Pierre Boudry, Anna Maikova, Eliane Hajnsdorf, Louis-Charles Fortier, Bruno Dupuy, and Olga Soutourina. 2020. Type I Toxin-Antitoxin Systems Contribute to the Maintenance of Mobile Genetic Elements in *Clostridioides Difficile*. *Communications Biology* **3** (1): 1–13.

<https://doi.org/10.1038/s42003-020-01448-5>.

Piattelli, Emma, Johann Peltier, and Olga Soutourina. 2020. Interplay between Regulatory RNAs and Signal Transduction Systems during Bacterial Infection. *Genes* **11** (10): 1209.

<https://doi.org/10.3390/genes11101209>.

Pierre-Audigier, C., C. Talla, A.-K. Alame-Emane, B. Audigier, N. Grall, R. Ruimy, A. Andreumont, et al. 2020. Tuberculosis Trends in a Hot-Spot Region in Paris, France. *The International Journal of Tuberculosis and Lung Disease: The Official Journal of the International Union Against Tuberculosis and Lung Disease* **24** (4): 428–35.

<https://doi.org/10.5588/ijtld.19.0305>.

Refrégier, Guislaine, Christophe Sola, and Christophe Guyeux. 2020. Unexpected Diversity of CRISPR Unveils Some Evolutionary Patterns of Repeated Sequences in *Mycobacterium Tuberculosis*. *BMC Genomics* **21** (1): 841.

<https://doi.org/10.1186/s12864-020-07178-6>.

Rodgers, Faye H., Julia A. Cai, Andre N. Pitaluga, Dominique Mengin-Lecreulx, Mathilde Gendrin, and George K. Christophides. 2020. Functional Analysis of the Three Major PGRPLC Isoforms in the Midgut of the Malaria Mosquito *Anopheles Coluzzii*. *Insect Biochemistry and Molecular Biology* **118**: 103288.

<https://doi.org/10.1016/j.ibmb.2019.103288>.

Rodríguez, Miguel, Marta Torres, Lydia Blanco, Victoria Béjar, Inmaculada Sampedro, and Inmaculada Llamas. 2020. Plant Growth-Promoting Activity and Quorum Quenching-Mediated Biocontrol of Bacterial Phytopathogens by *Pseudomonas Segetis* Strain P6. *Scientific Reports* **10** (1): 4121.

<https://doi.org/10.1038/s41598-020-61084-1>.

Sarfraz, Sohaib, Saïd Oulghazi, Jérémy Cigna, Shahbaz Talib Sahi, Kashif Riaz, Muhammad Rizwan Tufail, Amna Fayyaz, et al. 2020. Complete Genome Sequence of the Type Strain *Pectobacterium Punjabense* SS95, Isolated from a Potato Plant with Blackleg Symptoms. *Microbiology Resource Announcements* **9** (32): e00420-20.

<https://doi.org/10.1128/MRA.00420-20>.

Sarfraz, Sohaib, Shahbaz Talib Sahi, Saïd Oulghazi, Kashif Riaz, Nasir Ahmed Rajput, Muhammad Atiq, Muhammad Rizwan Tufail, Akhtar Hameed, and Denis Faure. 2020. Species Diversity of *Dickeya* and *Pectobacterium* Causing Potato Blackleg Disease in Pakistan. *Plant Disease* **104** (5): 1492–99.

<https://doi.org/10.1094/PDIS-08-19-1743-RE>.



- Singh, Yogen, Cecile Tissot, María V. Fraga, Nadya Yousef, Rafael Gonzalez Cortes, Jorge Lopez, Joan Sanchez-de-Toledo, et al. 2020. International Evidence-Based Guidelines on Point of Care Ultrasound (POCUS) for Critically Ill Neonates and Children Issued by the POCUS Working Group of the European Society of Paediatric and Neonatal Intensive Care (ESPNIC). *Critical Care* **24** (1): 65.  
<https://doi.org/10.1186/s13054-020-2787-9>.
- Soler, Nicolas, and Patrick Forterre. 2020. Vesiduction: The Fourth Way of HGT. *Environmental Microbiology*, **22** (7): 2457-60.  
<https://doi.org/10.1111/1462-2920.15056>.
- Soutourina, Olga, Thomas Dubois, Marc Monot, Pavel V. Shelyakin, Laure Saujet, Pierre Boudry, Mikhail S. Gelfand, Bruno Dupuy, and Isabelle Martin-Verstraete. 2020. Genome-Wide Transcription Start Site Mapping and Promoter Assignments to a Sigma Factor in the Human Enteropathogen *Clostridioides Difficile*. *Frontiers in Microbiology* **11**: 1939.  
<https://doi.org/10.3389/fmicb.2020.01939>.
- Steunou, Anne Soisig, Marion Babot, Marie-Line Bourbon, Reem Tambosi, Anne Durand, Sylviane Liotenberg, Anja Krieger-Liszskay, Yoshiharu Yamaichi, and Soufian Ouchane. 2020. Additive Effects of Metal Excess and Superoxide, a Highly Toxic Mixture in Bacteria. *Microbial Biotechnology*, **13** (5): 1515-29.  
<https://doi.org/10.1111/1751-7915.13589>.
- Steunou, Anne Soisig, Marie-Line Bourbon, Marion Babot, Anne Durand, Sylviane Liotenberg, Yoshiharu Yamaichi, and Soufian Ouchane. 2020. Increasing the Copper Sensitivity of Microorganisms by Restricting Iron Supply, a Strategy for Bio-Management Practices. *Microbial Biotechnology*, **13** (5): 1530-45.  
<https://doi.org/10.1111/1751-7915.13590>.
- Steunou, Anne Soisig, Anne Durand, Marie-Line Bourbon, Marion Babot, Reem Tambosi, Sylviane Liotenberg, and Soufian Ouchane. 2020. Cadmium and Copper Cross-Tolerance. Cu<sup>+</sup> Alleviates Cd<sup>2+</sup> Toxicity, and Both Cations Target Heme and Chlorophyll Biosynthesis Pathway in *Rubrivivax Gelatinosus*. *Frontiers in Microbiology* **11**: 893.  
<https://doi.org/10.3389/fmicb.2020.00893>.
- Takahashi, Tomio S., Hans-Peter Wollscheid, Jonathan Lowther, and Helle D. Ulrich. 2020. Effects of Chain Length and Geometry on the Activation of DNA Damage Bypass by Polyubiquitylated PCNA. *Nucleic Acids Research* **48** (6): 3042–52.  
<https://doi.org/10.1093/nar/gkaa053>.
- Terheggen, Ulrich, Christian Heiring, Mattias Kjellberg, Fredrik Hegardt, Martin Kneyber, Maurizio Gente, Charles C. Roehr, et al. 2020. European Consensus Recommendations for Neonatal and Paediatric Retrievals of Positive or Suspected COVID-19 Patients. *Pediatric Research*, July: 1-7.  
<https://doi.org/10.1038/s41390-020-1050-z>.
- Thiroux, Sarah, Samuel Dupont, Camilla L. Nesbø, Nadège Bienvenu, Mart Krupovic, Stéphane LHaridon, Dominique Marie, Patrick Forterre, Anne Godfroy, and Claire Geslin. 2020. The First Head-Tailed Virus, MFTV1, Produced by a Hyperthermophilic Methanogenic Deep-Sea Archaea. *Environmental Microbiology*, First published in October 2020.  
<https://doi.org/10.1111/1462-2920.15271>.
- Tian, Xudong, Rodolphe Auger, Guillaume Manat, Frédéric Kerff, Dominique Mengin-Lecreulx, and Thierry Touzé. 2020. Insight into the Dual Function of Lipid Phosphate Phosphatase PgpB Involved in Two Essential Cell-Envelope Metabolic Pathways in *Escherichia Coli*. *Scientific Reports* **10** (1): 13209.

<https://doi.org/10.1038/s41598-020-70047-5>.

Tissières, Pierre, Mark J. Peters, Niranjana Kissoon, and Scott L. Weiss. 2020. Might the Surviving Sepsis Campaign International Guidelines Be Less Confusing? Authors Reply. *Intensive Care Medicine*, **46**: 1658–59.

<https://doi.org/10.1007/s00134-020-06158-4>.

Tissières, Pierre, and Jean-Louis Teboul. 2020. SARS-CoV-2 Post-Infective Myocarditis: The Tip of COVID-19 Immune Complications? *Annals of Intensive Care* **10** (1): 98.

<https://doi.org/10.1186/s13613-020-00717-0>.

Veaudor, Theo, Victoire Blanc-Garin, Celia Chenebault, Encarnacion Diaz-Santos, Jean-Francois Sassi, Corinne Cassier-Chauvat, and Franck Chauvat. 2020. Recent Advances in the Photoautotrophic Metabolism of Cyanobacteria: Biotechnological Implications. *Life-Basel* **10** (5): 71.

<https://doi.org/10.3390/life10050071>.

Vergalli, Julia, Alessio Atzori, Jelena Pajovic, Estelle Dumont, Giuliano Mallocci, Muriel Masi, Attilio Vittorio Vargiu, et al. 2020. The Challenge of Intracellular Antibiotic Accumulation, a Function of Fluoroquinolone Influx versus Bacterial Efflux. *Communications Biology* **3** (1): 198.

<https://doi.org/10.1038/s42003-020-0929-x>.

Vergalli, Julia, Igor V. Bodrenko, Muriel Masi, Lucile Moynié, Silvia Acosta-Gutiérrez, James H. Naismith, Anne Davin-Regli, et al. 2020. Porins and Small-Molecule Translocation across the Outer Membrane of Gram-Negative Bacteria. *Nature Reviews. Microbiology* **18** (3): 164–76.

<https://doi.org/10.1038/s41579-019-0294-2>.

Vigouroux, Armelle, Jeanne Dore, Loic Marty, Magali Aumont-Nicaise, Pierre Legrand, Yves Dessaux, Ludovic Vial, and Solange Moréra. 2020. Import Pathways of the Mannityl-Opines into the Bacterial Pathogen *Agrobacterium tumefaciens*: Structural, Affinity and in Vivo Approaches. *The Biochemical Journal* **477**: 615–28.

<https://doi.org/10.1042/BCJ20190886>.

Virolle, Marie-Joelle. 2020. A Challenging View: Antibiotics Play a Role in the Regulation of the Energetic Metabolism of the Producing Bacteria. *Antibiotics* **9** (2): 83.

<https://doi.org/10.3390/antibiotics9020083>.

Wang, Yang, Jorge R. Osman, and Michael S. DuBow. 2020. Bacterial Communities on the Surface of the Mineral Sandy Soil from the Desert of Maine (USA). *Current Microbiology*, **77**: 1429–1437.

<https://doi.org/10.1007/s00284-020-01946-z>.

Weiss, Scott L., Mark J. Peters, Waleed Alhazzani, Michael S. D. Agus, Heidi R. Flori, David P. Inwald, Simon Nadel, et al. 2020a. Executive Summary: Surviving Sepsis Campaign International Guidelines for the Management of Septic Shock and Sepsis-Associated Organ Dysfunction in Children. *Intensive Care Medicine* **46** (Suppl 1): 1–9.

<https://doi.org/10.1007/s00134-019-05877-7>.

———. 2020b. Executive Summary: Surviving Sepsis Campaign International Guidelines for the Management of Septic Shock and Sepsis-Associated Organ Dysfunction in Children. *Pediatric Critical Care Medicine* **21** (2): 186–95.

<https://doi.org/10.1097/PCC.0000000000002197>.

———. 2020c. Surviving Sepsis Campaign International Guidelines for the Management of Septic Shock and Sepsis-Associated Organ Dysfunction in Children. *Intensive Care Medicine* **46** (Suppl 1): 10–67.

<https://doi.org/10.1007/s00134-019-05878-6>.

- . 2020d. Surviving Sepsis Campaign International Guidelines for the Management of Septic Shock and Sepsis-Associated Organ Dysfunction in Children. *Pediatric Critical Care Medicine: A Journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies* **21** (2): e52–106.  
<https://doi.org/10.1097/PCC.0000000000002198>.
- Wirth, Thierry, Marine Bergot, Jean-Philippe Rasigade, Bruno Pichon, Maxime Barbier, Patricia Martins-Simoes, Laurent Jacob, et al. 2020. Niche Specialization and Spread of *Staphylococcus Capitis* Involved in Neonatal Sepsis. *Nature Microbiology* **5** (5): 735–45.  
<https://doi.org/10.1038/s41564-020-0676-2>.
- Zhang, Jun, Qiting Liang, Zhongheng Xu, Miao Cui, Qizhong Zhang, Sonia Abreu, Michelle David, et al. 2020. The Inhibition of Antibiotic Production in *Streptomyces Coelicolor* Over-Expressing the TetR Regulator SCO3201 IS Correlated With Changes in the Lipidome of the Strain. *Frontiers in Microbiology* **11**: 1399.  
<https://doi.org/10.3389/fmicb.2020.01399>.