

## Infographic sources

**"DO YOU KNOW THAT AN UNBALANCED MICROBIOTA IS CALLED A DYSBIOSIS?"**

### Focus 1 — What is an unbalanced microbiota?

[Levy M, Kolodziejczyk AA, Thaiss CA, et al. Dysbiosis and the immune system. \*Nat Rev Immunol.\* 2017;17\(4\):219-232.](#)

[Jandhyala SM, Talukdar R, Subramanyam C, et al. Role of the normal gut microbiota. \*World J Gastroenterol.\* 2015;21\(29\):8787-8803.](#)

[Lloyd-Price J, Abu-Ali G, Huttenhower C. The healthy human microbiome. \*Genome Med.\* 2016;8\(1\):51. Published 2016 Apr 27.](#)

[Marchesi JR, Ravel J. The vocabulary of microbiome research: a proposal. \*Microbiome.\* 2015;3:31. Published 2015 Jul 30.](#)

### Focus 2: How dysbiosis affects the microbiota?

[Petersen C, Round JL. Defining dysbiosis and its influence on host immunity and disease. \*Cell Microbiol.\* 2014;16\(7\):1024-1033.](#)

### Focus 3: What are the main causes of dysbiosis?

[Levy M, Kolodziejczyk AA, Thaiss CA, et al. Dysbiosis and the immune system. \*Nat Rev Immunol.\* 2017;17\(4\):219-232.](#)

[Yatsunenko T, Rey FE, Manary MJ, et al. Human gut microbiome viewed across age and geography. \*Nature\* 2012 ; 486 : 222–227.](#)

[Iebba V, Totino V, Gagliardi A, et al. Eubiosis and dysbiosis: the two sides of the microbiota. \*New Microbiol.\* 2016;39\(1\):1-12.](#)

[Wang B, Yao M, Lv L, et al. The Human Microbiota in Health and Disease\[J\].Engineering,2017,3\(1\):71-82.](#)

[Ramirez J, Guarner F, Bustos Fernandez L, et al. Antibiotics as Major Disruptors of Gut Microbiota. \*Front Cell Infect Microbiol.\* 2020;10:572912.](#)

[Li N, Ma WT, Pang M, et al. The Commensal Microbiota and Viral Infection: A Comprehensive Review. \*Front Immunol.\* 2019;10:1551.](#)

[Zmora N, Suez J, Elinav E. You are what you eat: diet, health and the gut microbiota. \*Nat Rev Gastroenterol Hepatol.\* 2019;16\(1\):35-56.](#)

### Focus 4: What are the repercussions of an unbalanced microbiota on health?

[Ley RE, Turnbaugh PJ, Klein S, et al. Microbial ecology: human gut microbes associated with obesity. \*Nature.\* 2006 Dec 21;444\(7122\):1022-3.](#)

[Houghteling PD, Walker WA. From Birth to "Immunohealth," Allergies and Enterocolitis. \*J Clin Gastroenterol.\* 2015 Nov-Dec;49 Suppl 1\(0 1\):S7-S12](#)

[Maiuolo J, Gliozi M, Musolino V, et al. The Contribution of Gut Microbiota-Brain Axis in the Development of Brain Disorders. \*Front Neurosci.\* 2021 Mar 23;15:616883.](#)

[Bay L, Barnes CJ, Fritz BG, et al. Universal Dermal Microbiome in Human Skin. \*mBio.\* 2020 Feb 11;11\(1\):e02945-19.](#)

[Neugent ML, Hulyalkar NV, Nguyen VH, et al. Advances in Understanding the Human Urinary Microbiome and Its Potential Role in Urinary Tract Infection. \*mBio.\* 2020 Apr 28;11\(2\):e00218-20.](#)

[Greenbaum S, Greenbaum G, Moran-Gilad J, et al. Ecological dynamics of the vaginal microbiome in relation to health and disease. \*Am J Obstet Gynecol.\* 2019 Apr;220\(4\):324-335.](#)

[Radaic A, Kapila YL. The oralome and its dysbiosis: New insights into oral microbiome-host interactions. \*Comput Struct Biotechnol J.\* 2021 Feb 27;19:1335-1360.](#)

[Mathieu E, Escribano-Vazquez U, Descamps D, et al. Paradigms of Lung Microbiota Functions in Health and Disease, Particularly, in Asthma. \*Front Physiol.\* 2018;9:1168.](#)

## **Focus 5 : How to restore an unbalanced microbiota?**

[FAO/OMS, Joint Food and Agriculture Organization of the United Nations/ World Health Organization. Working Group. Report on drafting guidelines for the evaluation of probiotics in food, 2002.](#)

[Hill C, Guarner F, Reid G, et al. Expert consensus document. The International Scientific Association for Probiotics and Prebiotics consensus statement on the scope and appropriate use of the term probiotic. \*Nat Rev Gastroenterol Hepatol.\* 2014;11\(8\):506-514.](#)

[Gibson GR, Roberfroid MB. Dietary modulation of the human colonic microbiota: introducing the concept of prebiotics. \*J Nutr.\* 1995; 125:1401-12.](#)

[Gibson GR, Hutkins R, Sanders ME, et al. Expert consensus document: The International Scientific Association for Probiotics and Prebiotics \(ISAPP\) consensus statement on the definition and scope of prebiotics. \*Nat Rev Gastroenterol Hepatol.\* 2017;14\(8\):491-502.](#)

[Markowiak P, Śliżewska K. Effects of Probiotics, Prebiotics, and Synbiotics on Human Health. \*Nutrients.\* 2017;9\(9\):1021.](#)

[Tap J, Furet JP, Bensaada M, et al. Gut microbiota richness promotes its stability upon increased dietary fibre intake in healthy adults. \*Environ Microbiol.\* 2015 Dec;17\(12\):4954-64.](#)

[Quigley EMM, Gajula P. Recent advances in modulating the microbiome. \*F1000Res.\* 2020;9:F1000 Faculty Rev-46. Published 2020 Jan 27.](#)

[Wilson AS, Koller KR, Ramaboli MC, et al. Diet and the Human Gut Microbiome: An International Review. \*Dig Dis Sci.\* 2020;65\(3\):723-740.](#)

[Zallot, Camille Transplantation de microbiote fécal et pathologies digestives, La Lettre de l'Hépatogastroentérologue, Vol. XXI -n° 1, janvier-février 2018.](#)

[Cammarota G, Ianiro G, Tilg H, et al. European consensus conference on faecal microbiota transplantation in clinical practice. \*Gut.\* 2017;66\(4\):569-580.](#)



[Lev-Sagie A, Goldman-Wohl D, Cohen Y, et al. Vaginal microbiome transplantation in women with intractable bacterial vaginosis. \*Nat Med.\* 2019;25\(10\):1500-1504.](#)

[Myles IA, Earland NJ, Anderson ED, et al. First-in-human topical microbiome transplantation with Roseomonas mucosa for atopic dermatitis. \*JCI Insight.\* 2018;3\(9\):e120608.](#)

[Zhou H, Shi L, Ren Y, et al. Applications of Human Skin Microbiota in the Cutaneous Disorders for Ecology-Based Therapy. \*Front Cell Infect Microbiol.\* 2020;10:570261.](#)