

# Shallow breathing: bacterial life at low O<sub>2</sub>

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Deoxygenation alters bacterial diversity and community composition in the ocean's largest oxygen minimum zone. <i>Nature Communications</i> , 2013, 4, 2705.	5.8	72
2	Genome resolved analysis of a premature infant gut microbial community reveals a <i>Varibaculum cambriense</i> genome and a shift towards fermentation-based metabolism during the third week of life. <i>Microbiome</i> , 2013, 1, 30.	4.9	50
3	Biological detection by optical oxygen sensing. <i>Chemical Society Reviews</i> , 2013, 42, 8700.	18.7	361
4	Comparative genomics of freshwater Fe-oxidizing bacteria: implications for physiology, ecology, and systematics. <i>Frontiers in Microbiology</i> , 2013, 4, 254.	1.5	188
5	A New Highly Sensitive Method to Assess Respiration Rates and Kinetics of Natural Planktonic Communities by Use of the Switchable Trace Oxygen Sensor and Reduced Oxygen Concentrations. <i>PLoS ONE</i> , 2014, 9, e105399.	1.1	23
6	Enzymatic Characterization and <i>In Vivo</i> Function of Five Terminal Oxidases in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2014, 196, 4206-4215.	1.0	103
7	Metagenomic insights into particles and their associated microbiota in a coastal margin ecosystem. <i>Frontiers in Microbiology</i> , 2014, 5, 466.	1.5	74
8	An Aerobic Exercise: Defining the Roles of <i>Pseudomonas aeruginosa</i> Terminal Oxidases. <i>Journal of Bacteriology</i> , 2014, 196, 4203-4205.	1.0	12
9	Oxygen distribution and aerobic respiration in the north and south eastern tropical Pacific oxygen minimum zones. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 94, 173-183.	0.6	122
10	Single-cell genomics reveals metabolic strategies for microbial growth and survival in an oligotrophic aquifer. <i>Microbiology (United Kingdom)</i> , 2014, 160, 362-372.	0.7	10
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12	A Biochemical Approach to Study the Role of the Terminal Oxidases in Aerobic Respiration in <i>Shewanella oneidensis</i> MR-1. <i>PLoS ONE</i> , 2014, 9, e86343.	1.1	21
13	A Little O <sub>2</sub> May Go a Long Way in Structuring the GI Microbiome. <i>Gastroenterology</i> , 2014, 147, 956-959.	0.6	12
14	Correlation Between Intraluminal Oxygen Gradient and Radial Partitioning of Intestinal Microbiota. <i>Gastroenterology</i> , 2014, 147, 1055-1063.e8.	0.6	658
15	Comparative pH and temperature dependent studies on different types of terminal oxidases by protein film voltammetry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, e100.	0.5	0
16	Expression of terminal oxidases under nutrient-limited conditions in <i>Shewanella oneidensis</i> MR-1. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, e99-e100.	0.5	0
17	Determination of H <sup>+</sup> /e ratios in mitochondrial yeast cytochrome c oxidase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, e100.	0.5	4
19	Evidence for Distinct Electron Transfer Processes in Terminal Oxidases from Different Origin by Means of Protein Film Voltammetry. <i>Journal of the American Chemical Society</i> , 2014, 136, 10854-10857.	6.6	29

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22	Micromanagement in the gut: microenvironmental factors govern colon mucosal biofilm structure and functionality. <i>Npj Biofilms and Microbiomes</i> , 2015, 1, 15026.	2.9	54
23	The Cytochrome bd Oxidase of <i>Porphyromonas gingivalis</i> Contributes to Oxidative Stress Resistance and Dioxygen Tolerance. <i>PLoS ONE</i> , 2015, 10, e0143808.	1.1	18
24	A Longitudinal Study of the Feline Faecal Microbiome Identifies Changes into Early Adulthood Irrespective of Sexual Development. <i>PLoS ONE</i> , 2015, 10, e0144881.	1.1	54
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26	Microbiota and Host Nutrition across Plant and Animal Kingdoms. <i>Cell Host and Microbe</i> , 2015, 17, 603-616.	5.1	628
27	Gut Microbial Succession Follows Acute Secretory Diarrhea in Humans. <i>MBio</i> , 2015, 6, e00381-15.	1.8	150
28	Hydration and diffusion processes shape microbial community organization and function in model soil aggregates. <i>Water Resources Research</i> , 2015, 51, 9804-9827.	1.7	91
29	A quinol oxidase, encoded by <i>cyoABCD</i> , is utilized to adapt to lower O <sub>2</sub> concentrations in <i>Rhizobium etli</i> CFN42. <i>Microbiology (United Kingdom)</i> , 2015, 161, 203-212.	0.7	13
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35	Determination of Respiration Rates in Water with Sub-Micromolar Oxygen Concentrations. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	15
36	Genomic characterization of the uncultured Bacteroidales family S24-7 inhabiting the guts of homeothermic animals. <i>Microbiome</i> , 2016, 4, 36.	4.9	533
37	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 7398-7407.	1.5	110

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38	Microbial community dynamics in soil aggregates shape biogeochemical gas fluxes from soil profiles – upscaling an aggregate biophysical model. <i>Global Change Biology</i> , 2016, 22, 3141-3156.	4.2	120
39	Genomic, physiologic, and proteomic insights into metabolic versatility in <i>Roseobacter</i> clade bacteria isolated from deep-sea water. <i>Scientific Reports</i> , 2016, 6, 35528.	1.6	22
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45	Genome-wide transcription profiling of aerobic and anaerobic <i>Escherichia coli</i> biofilm and planktonic cultures. <i>FEMS Microbiology Letters</i> , 2017, 364, fnx006.	0.7	12
46	Denitrifying community in coastal sediments performs aerobic and anaerobic respiration simultaneously. <i>ISME Journal</i> , 2017, 11, 1799-1812.	4.4	126
47	Dominance of <i>Sulfuritalea</i> species in nitrate-depleted water of a stratified freshwater lake and arsenate respiration ability within the genus. <i>Environmental Microbiology Reports</i> , 2017, 9, 522-527.	1.0	30
48	Integrated metabolism in sponge-microbe symbiosis revealed by genome-centered metatranscriptomics. <i>ISME Journal</i> , 2017, 11, 1651-1666.	4.4	118
49	Microbial community response to hydration-desiccation cycles in desert soil. <i>Scientific Reports</i> , 2017, 7, 45735.	1.6	80
50	Mechanisms of cross-talk between the diet, the intestinal microbiome, and the undernourished host. <i>Gut Microbes</i> , 2017, 8, 98-112.	4.3	43
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58	Luciferin inspired oxygen sensing with alternant change of color and fluorescence. <i>Dyes and Pigments</i> , 2017, 138, 1-6.	2.0	5
59	An essential role for bacterial nitric oxide synthase in <i>Staphylococcus aureus</i> electron transfer and colonization. <i>Nature Microbiology</i> , 2017, 2, 16224.	5.9	48
60	Organismal and spatial partitioning of energy and macronutrient transformations within a hypersaline mat. <i>FEMS Microbiology Ecology</i> , 2017, 93, .	1.3	23
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66	<i>Paracoccus versutus</i> KS293 adaptation to aerobic and anaerobic denitrification: Insights from nitrogen removal, functional gene abundance, and proteomic profiling analysis. <i>Bioresource Technology</i> , 2018, 260, 321-328.	4.8	74
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69	<i>Ereboglobus luteus</i> gen. nov. sp. nov. from cockroach guts, and new insights into the oxygen relationship of the genera <i>Opiritutus</i> and <i>Didymococcus</i> ( <i>Verrucomicrobia</i> : <i>Opiritutaceae</i> ). <i>Systematic and Applied Microbiology</i> , 2018, 41, 101-112.	1.2	30
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75	Complete genome of streamlined marine actinobacterium <i>Pontimonas salivibrio</i> strain CL-TW6T adapted to coastal planktonic lifestyle. <i>BMC Genomics</i> , 2018, 19, 625.	1.2	10
76	Effects of temperature and carbon source on the isotopic fractionations associated with O <sub>2</sub> respiration for 17O/16O and 18O/16O ratios in <i>E. coli</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2018, 240, 152-172.	1.6	18
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79	Genomic profiling of four cultivated <i>Candidatus Nitrotoga</i> spp. predicts broad metabolic potential and environmental distribution. <i>ISME Journal</i> , 2018, 12, 2864-2882.	4.4	42
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82	Geomicrobiology of the carbon, nitrogen and sulphur cycles in Powell Lake: a permanently stratified water column containing ancient seawater. <i>Environmental Microbiology</i> , 2019, 21, 3927-3952.	1.8	10
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86	Intermittent micro-aeration: New strategy to control volatile fatty acid accumulation in high organic loading anaerobic digestion. <i>Water Research</i> , 2019, 166, 115080.	5.3	122
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105	Dynamic Environmental Control in Microfluidic Singleâ€“Cell Cultivations: From Concepts to Applications. <i>Small</i> , 2020, 16, e1906670.	5.2	22
106	Genetic Dissection of the Fermentative and Respiratory Contributions Supporting <i>Vibrio cholerae</i> Hypoxic Growth. <i>Journal of Bacteriology</i> , 2020, 202, .	1.0	12
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122	Aerobic Microbial Respiration In Oceanic Oxygen Minimum Zones. <i>PLoS ONE</i> , 2015, 10, e0133526.	1.1	99
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138	Comparative Genomics Reveal the Animal-Associated Features of the Acanthopleuribacteraceae Bacteria, and Description of <i>Sulfidibacter coralicola</i> gen. nov., sp., nov.. <i>Frontiers in Microbiology</i> , 2022, 13, 778535.	1.5	1
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158	Magnetically Reusable and Well-dispersed Nanoparticles for Oxygen Detection in Water. <i>Journal of Fluorescence</i> , 0, , .	1.3	1
159	Identification of <i>nosZ</i> -expressing microorganisms consuming trace N <sub>2</sub> O in microaerobic chemostat consortia dominated by an uncultured <i>Burkholderiales</i> . <i>ISME Journal</i> , 2022, 16, 2087-2098.	4.4	12
160	Comparative Analysis of <i>Brucepastera parasymphyla</i> gen. nov., sp. nov. and <i>Teretinema zuelzerae</i> gen. nov., comb. nov. ( <i>Treponemataceae</i> ) Reveals the Importance of Interspecies Hydrogen Transfer in the Energy Metabolism of Spirochetes. <i>Applied and Environmental Microbiology</i> , 2022, 88, .	1.4	2
161	Multiple Adaptive Strategies of Himalayan <i>Iodobacter</i> sp. PCH194 to High-Altitude Stresses. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1
162	(Meta)Genomic Analysis Reveals Diverse Energy Conservation Strategies Employed by Globally Distributed <i>Gemmatimonadota</i> . <i>MSystems</i> , 2022, 7, .	1.7	6
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164	Machine learning-based inverse design for electrochemically controlled microscopic gradients of O <sub>2</sub> and H <sub>2</sub> O <sub>2</sub> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	2
165	The Diversity and Functional Capacity of Microbes Associated with Coastal Macrophytes. <i>MSystems</i> , 2022, 7, .	1.7	4
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