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Succession of microbial consortia in the developing infant gut microbiome

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|------|--|----|-----------|
| 1953 | Examination of faecal Bifidobacterium populations in breast- and formula-fed infants during the first 18 months of life. 2010 , 156, 3329-3341 | | 215 |
| 1952 | The volatile microbiome. 2011 , 12, 114 | | 5 |
| 1951 | Gut microbiome-host interactions in health and disease. 2011 , 3, 14 | | 425 |
| 1950 | Development of the human gastrointestinal microbiota and insights from high-throughput sequencing. 2011 , 140, 1713-9 | | 283 |
| 1949 | The impact of a consortium of fermented milk strains on the gut microbiome of gnotobiotic mice and monozygotic twins. 2011 , 3, 106ra106 | | 384 |
| 1948 | The influence of milk oligosaccharides on microbiota of infants: opportunities for formulas. 2011 , 2, 331-51 | | 126 |
| 1947 | Moving pictures of the human microbiome. 2011 , 12, R50 | | 723 |
| 1946 | The Human Microbiome Project in 2011 and beyond. 2011 , 10, 287-91 | | 199 |
| 1945 | Eating for two: how metabolism establishes interspecies interactions in the gut. 2011 , 10, 336-47 | | 309 |
| 1944 | Bacteroides in the infant gut consume milk oligosaccharides via mucus-utilization pathways. 2011 , 10, 507-14 | | 337 |
| 1943 | Human nutrition, the gut microbiome and the immune system. 2011 , 474, 327-36 | | 1725 |
| 1942 | The microbiome and rheumatoid arthritis. 2011 , 7, 569-78 | | 303 |
| 1941 | Gut microbiome, obesity, and metabolic dysfunction. 2011 , 121, 2126-32 | | 545 |
| 1940 | Functional metagenomic investigations of the human intestinal microbiota. 2011 , 2, 188 | | 34 |
| 1939 | Intestinal microbiota in healthy adults: temporal analysis reveals individual and common core and relation to intestinal symptoms. 2011 , 6, e23035 | | 241 |
| 1938 | The intestinal flora is required to support antibody responses to systemic immunization in infant and germ free mice. 2011 , 6, e27662 | | 60 |
| 1937 | Branched chain fatty acids reduce the incidence of necrotizing enterocolitis and alter gastrointestinal microbial ecology in a neonatal rat model. 2011 , 6, e29032 | | 113 |

| | | |
|------|---|-----|
| 1936 | Promoting bifidobacteria in the human infant intestine: why, how, and which one?. 2011 , 52, 648-9 | 4 |
| 1935 | Dynamics and Clinical Evolution of Bacterial Gut Microflora in Extremely Premature Patients. 2011 , 2011, 109-112 | |
| 1934 | Succession of microbial consortia in the developing infant gut microbiome. 2011 , 2011, 125-126 | 1 |
| 1933 | Gut microbiota, immunity, and disease: a complex relationship. 2011 , 2, 180 | 114 |
| 1932 | Human distal gut microbiome. 2011 , 13, 3088-102 | 66 |
| 1931 | Unravelling the effects of the environment and host genotype on the gut microbiome. 2011 , 9, 279-90 | 973 |
| 1930 | Animal behaviour meets microbial ecology. 2011 , 82, 425-436 | 187 |
| 1929 | Our microbial selves: what ecology can teach us. 2011 , 12, 775-84 | 65 |
| 1928 | The human gut microbiome: ecology and recent evolutionary changes. 2011 , 65, 411-29 | 460 |
| 1927 | The potter's wheel: the host's role in sculpting its microbiota. 2011 , 68, 3675-85 | 89 |
| 1926 | Establishment of intestinal homeostasis during the neonatal period. 2011 , 68, 3699-712 | 45 |
| 1925 | Intestinal microbiota in human health and disease: the impact of probiotics. 2011 , 6, 209-40 | 453 |
| 1924 | Evaluation of stool microbiota signatures in two cohorts of Asian (Singapore and Indonesia) newborns at risk of atopy. 2011 , 11, 193 | 34 |
| 1923 | Symbiotic bacteria are responsible for diet-induced mating preference in <i>Drosophila melanogaster</i> , providing support for the hologenome concept of evolution. 2011 , 2, 190-2 | 58 |
| 1922 | Shifting from a gene-centric to metabolite-centric strategy to determine the core gut microbiome. 2011 , 2, 309-14 | 3 |
| 1921 | Colonization of the Gastrointestinal Tract in Neonates: A Review. 2011 , 3, 291-295 | 6 |
| 1920 | Immunological footprint: the development of a child's immune system in environments rich in microorganisms and parasites. 2011 , 138, 1508-18 | 24 |
| 1919 | The human metagenome: our other genome?. 2011 , 20, R142-8 | 25 |

| | | | |
|------|---|------|-----|
| 1918 | Bambus 2: scaffolding metagenomes. 2011 , 27, 2964-71 | | 106 |
| 1917 | Strain-resolved community genomic analysis of gut microbial colonization in a premature infant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1128-33 | 11.5 | 201 |
| 1916 | Functional genome analysis of <i>Bifidobacterium breve</i> UCC2003 reveals type IVb tight adherence (Tad) pili as an essential and conserved host-colonization factor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 11217-22 | 11.5 | 290 |
| 1915 | The pioneer gut microbiota in human neonates vaginally born at term-a pilot study. 2011 , 70, 282-6 | | 43 |
| 1914 | Microbial ecology and host-microbiota interactions during early life stages. 2012 , 3, 352-65 | | 162 |
| 1913 | Current world literature. Translational research in wasting diseases. 2012 , 15, 315-7 | | |
| 1912 | Early gut colonization and subsequent obesity risk. 2012 , 15, 278-84 | | 20 |
| 1911 | Food and the gut microbiota in inflammatory bowel diseases: a critical connection. 2012 , 28, 314-20 | | 70 |
| 1910 | Normal neonatal microbiome variation in relation to environmental factors, infection and allergy. 2012 , 24, 753-9 | | 91 |
| 1909 | Taking a metagenomic view of human nutrition. 2012 , 15, 448-54 | | 43 |
| 1908 | Identifying genomic and metabolic features that can underlie early successional and opportunistic lifestyles of human gut symbionts. 2012 , 22, 1974-84 | | 97 |
| 1907 | Nurture trumps nature in a longitudinal survey of salivary bacterial communities in twins from early adolescence to early adulthood. 2012 , 22, 2146-52 | | 131 |
| 1906 | Fügesundes Gedeihen!. 2012 , 37, S7-S10 | | 0 |
| 1905 | Intestinal MicrobiOMICS to define health and disease in human and mice. 2012 , 13, 746-58 | | 32 |
| 1904 | Stabilization of the murine gut microbiome following weaning. 2012 , 3, 383-93 | | 86 |
| 1903 | Composition of the early intestinal microbiota: knowledge, knowledge gaps and the use of high-throughput sequencing to address these gaps. 2012 , 3, 203-20 | | 159 |
| 1902 | Bacterial symbioses of the medicinal leech <i>Hirudo verbana</i> . 2012 , 3, 322-31 | | 29 |
| 1901 | The human microbiome and its potential importance to pediatrics. 2012 , 129, 950-60 | | 210 |

| | | | |
|------|---|------|-----|
| 1900 | Competition between species can stabilize public-goods cooperation within a species. 2012 , 8, 621 | | 55 |
| 1899 | Forensic identification with environmental samples. 2012 , | | 5 |
| 1898 | The gut microbiota, environment and diseases of modern society. 2012 , 3, 374-82 | | 39 |
| 1897 | Ecological succession of bacterial communities during conventionalization of germ-free mice. 2012 , 78, 2359-66 | | 45 |
| 1896 | Defining microbiota for developing new probiotics. 2012 , 23, | | 10 |
| 1895 | Fundamentals of microbial community resistance and resilience. 2012 , 3, 417 | | 759 |
| 1894 | Immunology: Vitamins prime immunity. 2012 , 491, 680-1 | | 8 |
| 1893 | Factors associated with the diversification of the gut microbial communities within chimpanzees from Gombe National Park. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13034-9 | 11.5 | 123 |
| 1892 | Quantum physics: Strongly correlated transport. 2012 , 491, 681-2 | | 1 |
| 1891 | The preterm gut microbiota: changes associated with necrotizing enterocolitis and infection. 2012 , 101, 1121-7 | | 111 |
| 1890 | The human microbiome: ecosystem resilience and health. 2012 , 70 Suppl 1, S2-9 | | 208 |
| 1889 | Defining the human microbiome. 2012 , 70 Suppl 1, S38-44 | | 471 |
| 1888 | Microbiome and immunological interactions. 2012 , 70 Suppl 1, S18-30 | | 75 |
| 1887 | Discussion from the 24(th) Marabou Symposium: Nutrition and the human microbiome. 2012 , 70 Suppl 1, S57-86 | | |
| 1886 | The Developing Intestinal Microbiome and Its Relationship to Health and Disease. 2012 , 59-65 | | |
| 1885 | Probiotics in the development and treatment of allergic disease. 2012 , 41, 747-62 | | 46 |
| 1884 | Upper respiratory tract microbial communities, acute otitis media pathogens, and antibiotic use in healthy and sick children. 2012 , 78, 6262-70 | | 133 |
| 1883 | Analytical strategies for characterization and validation of functional dairy foods. 2012 , 41, 27-45 | | 5 |

| | | |
|------|---|------|
| 1882 | Microbial contact during pregnancy, intestinal colonization and human disease. 2012 , 9, 565-76 | 315 |
| 1881 | We are what we eat: how the diet of infants affects their gut microbiome. 2012 , 13, 152 | 16 |
| 1880 | A metagenomic study of diet-dependent interaction between gut microbiota and host in infants reveals differences in immune response. 2012 , 13, r32 | 173 |
| 1879 | Composition of the adult digestive tract bacterial microbiome based on seven mouth surfaces, tonsils, throat and stool samples. 2012 , 13, R42 | 572 |
| 1878 | Knowing your friends: invertebrate innate immunity fosters beneficial bacterial symbioses. 2012 , 10, 815-27 | 134 |
| 1877 | Host remodeling of the gut microbiome and metabolic changes during pregnancy. 2012 , 150, 470-80 | 1117 |
| 1876 | Understanding vaginal microbiome complexity from an ecological perspective. 2012 , 160, 267-82 | 145 |
| 1875 | The human gut microbiome: current knowledge, challenges, and future directions. 2012 , 160, 246-57 | 178 |
| 1874 | Specific dietary oligosaccharides increase Th1 responses in a mouse respiratory syncytial virus infection model. 2012 , 86, 11472-82 | 30 |
| 1873 | Effects of gut microbes on nutrient absorption and energy regulation. 2012 , 27, 201-14 | 356 |
| 1872 | Computational systems biology and in silico modeling of the human microbiome. 2012 , 13, 769-80 | 75 |
| 1871 | Human milk oligosaccharide consumption by intestinal microbiota. 2012 , 18 Suppl 4, 12-5 | 178 |
| 1870 | Metagenomics and probiotics. 2012 , 18 Suppl 4, 32-4 | 36 |
| 1869 | Induction of matrix metalloproteinases and TLR2 and 6 in murine colon after oral exposure to <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> . 2012 , 14, 545-53 | 9 |
| 1868 | The impact of the gut microbiota on human health: an integrative view. 2012 , 148, 1258-70 | 2117 |
| 1867 | The function of our microbiota: who is out there and what do they do?. 2012 , 2, 104 | 240 |
| 1866 | The effect of training set on the classification of honey bee gut microbiota using the Naïve Bayesian Classifier. 2012 , 12, 221 | 40 |
| 1865 | Diversity of bifidobacteria within the infant gut microbiota. 2012 , 7, e36957 | 415 |

| | | |
|------|--|------|
| 1864 | The application of ecological theory toward an understanding of the human microbiome. 2012 , 336, 1255-62 | 910 |
| 1863 | Insights into antibiotic resistance through metagenomic approaches. 2012 , 7, 73-89 | 199 |
| 1862 | Human gut microbiota: repertoire and variations. 2012 , 2, 136 | 207 |
| 1861 | Bacterial identification and analytic challenges in clinical microbiome studies. 2012 , 129, 441-2 | 13 |
| 1860 | The interpersonal and intrapersonal diversity of human-associated microbiota in key body sites. 2012 , 129, 1204-8 | 207 |
| 1859 | Characterizing microbial communities through space and time. 2012 , 23, 431-6 | 73 |
| 1858 | 'Omics' of the mammalian gut--new insights into function. 2012 , 23, 491-500 | 27 |
| 1857 | Intestinal microbiota is a plastic factor responding to environmental changes. 2012 , 20, 385-91 | 107 |
| 1856 | Host-microbe interactions that facilitate gut colonization by commensal bifidobacteria. 2012 , 20, 467-76 | 139 |
| 1855 | From Animalcules to an Ecosystem: Application of Ecological Concepts to the Human Microbiome. 2012 , 43, 137-155 | 64 |
| 1854 | Regulatory T-cell abnormalities and the global epidemic of immuno-inflammatory disease. 2012 , 90, 256-9 | 19 |
| 1853 | Diet-induced dysbiosis of the intestinal microbiota and the effects on immunity and disease. 2012 , 4, 1095-119 | 417 |
| 1852 | Diversity, stability and resilience of the human gut microbiota. 2012 , 489, 220-30 | 2919 |
| 1851 | Visualising associations between paired 'omics' data sets. 2012 , 5, 19 | 162 |
| 1850 | Inferring dynamic signatures of microbes in complex host ecosystems. 2012 , 8, e1002624 | 41 |
| 1849 | Metagenomic and metatranscriptomic analysis of microbial community structure and gene expression of activated sludge. 2012 , 7, e38183 | 196 |
| 1848 | Microbial diversity and potential pathogens in ornamental fish aquarium water. 2012 , 7, e39971 | 40 |
| 1847 | Milk matters: soluble Toll-like receptor 2 (sTLR2) in breast milk significantly inhibits HIV-1 infection and inflammation. 2012 , 7, e40138 | 26 |

| | | |
|------|--|------|
| 1846 | Characterization of the active microbiotas associated with honey bees reveals healthier and broader communities when colonies are genetically diverse. 2012 , 7, e32962 | 95 |
| 1845 | Deep sequencing of the oral microbiome reveals signatures of periodontal disease. 2012 , 7, e37919 | 273 |
| 1844 | Human gut microbiota: dysbiosis and manipulation. 2012 , 2, 123 | 7 |
| 1843 | Insights to the Ethiopathogenesis of the Inflammatory Bowel Disease. 2012 , | |
| 1842 | Human gut microbiome viewed across age and geography. 2012 , 486, 222-7 | 4616 |
| 1841 | Microbial interactions: from networks to models. 2012 , 10, 538-50 | 1607 |
| 1840 | Host-microbe interactions in the neonatal intestine: role of human milk oligosaccharides. 2012 , 3, 450S-5S | 86 |
| 1839 | Microbiota, disease, and back to health: a metastable journey. 2012 , 4, 137rv7 | 206 |
| 1838 | How glycan metabolism shapes the human gut microbiota. 2012 , 10, 323-35 | 794 |
| 1837 | Host-gut microbiota metabolic interactions. 2012 , 336, 1262-7 | 2728 |
| 1836 | Experimental and analytical tools for studying the human microbiome. 2011 , 13, 47-58 | 491 |
| 1835 | The impact of perinatal immune development on mucosal homeostasis and chronic inflammation. 2011 , 12, 9-23 | 349 |
| 1834 | Microbes and microbial effector molecules in treatment of inflammatory disorders. 2012 , 245, 27-44 | 16 |
| 1833 | Deep 16S rRNA metagenomics and quantitative PCR analyses of the premature infant fecal microbiota. 2012 , 18, 378-80 | 50 |
| 1832 | Intestinal aganglionosis is associated with early and sustained disruption of the colonic microbiome. 2012 , 24, 874-e400 | 55 |
| 1831 | Characterization of the gastrointestinal microbiota in health and inflammatory bowel disease. 2012 , 18, 372-90 | 79 |
| 1830 | Gastrointestinal function development and microbiota. 2013 , 39, 15 | 116 |
| 1829 | Colonization resistance and microbial ecophysiology: using gnotobiotic mouse models and single-cell technology to explore the intestinal jungle. 2013 , 37, 793-829 | 75 |

| | | |
|------|--|-----|
| 1828 | The Role of Nutrition in Health and Disease in Premature Infants: Current Knowledge Gaps and Defining the Research Agenda. 2013 , 111-133 | |
| 1827 | Development of intestinal microbiota in infants and its impact on health. 2013 , 21, 167-73 | 320 |
| 1826 | Replenishing our defensive microbes. 2013 , 35, 810-7 | 39 |
| 1825 | Speculation on Prevention of Type 1 Diabetes. 2013 , 339-347 | |
| 1824 | Comparisons of infant Escherichia coli isolates link genomic profiles with adaptation to the ecological niche. 2013 , 14, 81 | 10 |
| 1823 | Diffusely adherent Escherichia coli strains isolated from children and adults constitute two different populations. 2013 , 13, 22 | 23 |
| 1822 | Microarray analysis reveals marked intestinal microbiota aberrancy in infants having eczema compared to healthy children in at-risk for atopic disease. 2013 , 13, 12 | 100 |
| 1821 | The gut microbiome: a new frontier in autism research. 2013 , 15, 337 | 164 |
| 1820 | Recent developments in Hirschsprung's-associated enterocolitis. 2013 , 15, 340 | 16 |
| 1819 | Omics approaches to study host-microbiota interactions. 2013 , 16, 270-7 | 22 |
| 1818 | Comparative digestive physiology. 2013 , 3, 741-83 | 154 |
| 1817 | Early microbial and metabolomic signatures predict later onset of necrotizing enterocolitis in preterm infants. 2013 , 1, 13 | 213 |
| 1816 | Glycobiome: bacteria and mucus at the epithelial interface. 2013 , 27, 25-38 | 128 |
| 1815 | Nutrition, the gut microbiome and the metabolic syndrome. 2013 , 27, 59-72 | 78 |
| 1814 | Diabetes and Viruses. 2013 , | 2 |
| 1813 | The gut microbiota and the liver. Pathophysiological and clinical implications. 2013 , 58, 1020-7 | 85 |
| 1812 | Microbiota in health and irritable bowel syndrome: current knowledge, perspectives and therapeutic options. 2013 , 48, 995-1009 | 54 |
| 1811 | Probiotics, prebiotics, and the host microbiome: the science of translation. 2013 , 1306, 1-17 | 80 |

| | | |
|------|--|----------|
| 1810 | Peripheral education of the immune system by the colonic microbiota. 2013 , 25, 364-9 | 64 |
| 1809 | Metabolic modeling of species interaction in the human microbiome elucidates community-level assembly rules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12804-9 | 11.5 251 |
| 1808 | Cell surface-associated compounds of probiotic lactobacilli sustain the strain-specificity dogma. 2013 , 16, 262-9 | 55 |
| 1807 | Clinical consequences of diet-induced dysbiosis. 2013 , 63 Suppl 2, 28-40 | 81 |
| 1806 | Does early life exposure to antibiotics increase the risk of eczema? A systematic review. 2013 , 169, 983-91 | 88 |
| 1805 | Functions of the skin microbiota in health and disease. 2013 , 25, 370-7 | 243 |
| 1804 | Gut microbiota from twins discordant for obesity modulate metabolism in mice. 2013 , 341, 1241214 | 2251 |
| 1803 | Interactions between gut microbiota, food and the obese host. 2013 , 34, 44-53 | 19 |
| 1802 | A metagenomic insight into our gut's microbiome. 2013 , 62, 146-58 | 234 |
| 1801 | Intestinal microbial diversity during early-life colonization shapes long-term IgE levels. 2013 , 14, 559-70 | 365 |
| 1800 | Meta-analyses of studies of the human microbiota. 2013 , 23, 1704-14 | 289 |
| 1799 | 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. 2013 , 1, 30 | 39 |
| 1798 | EMPeror: a tool for visualizing high-throughput microbial community data. 2013 , 2, 16 | 711 |
| 1797 | Intestinal Microbiota Composition in Children. 2013 , 9-16 | |
| 1796 | Relationship between Bacterial Colonization of Human Digestive and Respiratory Tract. 2013 , 64-71 | |
| 1795 | Experimental approaches for defining functional roles of microbes in the human gut. 2013 , 67, 459-75 | 31 |
| 1794 | Dyeing to learn more about the gut microbiota. 2013 , 13, 119-20 | 1 |
| 1793 | Assessing the human gut microbiota in metabolic diseases. 2013 , 62, 3341-9 | 289 |

| | | |
|------|--|-----|
| 1792 | A meta-analysis of changes in bacterial and archaeal communities with time. 2013 , 7, 1493-506 | 236 |
| 1791 | Advancing our understanding of the human microbiome using QIIME. 2013 , 531, 371-444 | 373 |
| 1790 | Diet, the human gut microbiota, and IBD. 2013 , 24, 117-20 | 91 |
| 1789 | Comparison of the compositions of the stool microbiotas of infants fed goat milk formula, cow milk-based formula, or breast milk. 2013 , 79, 3040-8 | 121 |
| 1788 | Nutrimetabonomics: applications for nutritional sciences, with specific reference to gut microbial interactions. 2013 , 4, 381-99 | 38 |
| 1787 | Role of oxygen gradients in shaping redox relationships between the human intestine and its microbiota. 2013 , 55, 130-40 | 223 |
| 1786 | Therapeutic modulation of intestinal dysbiosis. 2013 , 69, 75-86 | 113 |
| 1785 | The human milk microbiota: origin and potential roles in health and disease. 2013 , 69, 1-10 | 488 |
| 1784 | Biodiversity and functional genomics in the human microbiome. 2013 , 29, 51-8 | 167 |
| 1783 | Do pregnancy-related changes in the microbiome stimulate innate immunity?. 2013 , 19, 454-9 | 29 |
| 1782 | Effect of barrier microbes on organ-based inflammation. 2013 , 131, 1465-78 | 45 |
| 1781 | Intestinal colonization resistance. 2013 , 138, 1-11 | 323 |
| 1780 | Microbial-immune cross-talk and regulation of the immune system. 2013 , 138, 12-22 | 22 |
| 1779 | Holding a grudge: persisting anti-phage CRISPR immunity in multiple human gut microbiomes. 2013 , 10, 900-6 | 11 |
| 1778 | Exploring the bovine rumen bacterial community from birth to adulthood. 2013 , 7, 1069-79 | 480 |
| 1777 | Fecal microbiota diversity in survivors of adolescent/young adult Hodgkin lymphoma: a study of twins. 2013 , 108, 1163-7 | 34 |
| 1776 | The cell biology of the intestinal epithelium and its relation to inflammatory bowel disease. 2013 , 45, 798-806 | 17 |
| 1775 | The human microbiome: from symbiosis to pathogenesis. 2013 , 64, 145-63 | 122 |

| | | |
|------|---|-----|
| 1774 | Is there an association between microbial exposure and food allergy? A systematic review. 2013 , 24, 311-320.e8 | 59 |
| 1773 | A novel combined approach based on HTF-Microbi.Array and qPCR for a reliable characterization of the Bifidobacterium-dominated gut microbiota of breast-fed infants. 2013 , 343, 121-6 | 4 |
| 1772 | The Gut Microbiota. 2013 , 3-24 | 14 |
| 1771 | Consumption of human milk glycoconjugates by infant-associated bifidobacteria: mechanisms and implications. 2013 , 159, 649-664 | 147 |
| 1770 | Ageing and gut microbes: perspectives for health maintenance and longevity. 2013 , 69, 11-20 | 184 |
| 1769 | Can antibiotic treatment in preweaning rats alter body composition in adulthood?. 2013 , 103, 182-9 | 8 |
| 1768 | Computational meta'omics for microbial community studies. 2013 , 9, 666 | 216 |
| 1767 | Intestinal microbiota: a source of novel biomarkers in inflammatory bowel diseases?. 2013 , 27, 47-58 | 99 |
| 1766 | Controversies in the management of the critically ill: the role of probiotics. 2013 , 42 Suppl, S41-4 | 33 |
| 1765 | Immunology of pediatric HIV infection. 2013 , 254, 143-69 | 74 |
| 1764 | Phenolics in Human Nutrition: Importance of the Intestinal Microbiome for Isoflavone and Lignan Bioavailability. 2013 , 2433-2463 | 13 |
| 1763 | A guide to enterotypes across the human body: meta-analysis of microbial community structures in human microbiome datasets. 2013 , 9, e1002863 | 359 |
| 1762 | Beyond phylotyping: understanding the impact of gut microbiota on host biology. 2013 , 25, 358-72 | 32 |
| 1761 | Early diet impacts infant rhesus gut microbiome, immunity, and metabolism. 2013 , 12, 2833-45 | 72 |
| 1760 | Bacterial colonization of Hydra hatchlings follows a robust temporal pattern. 2013 , 7, 781-90 | 71 |
| 1759 | Effect of intestinal microbial ecology on the developing brain. 2013 , 167, 374-9 | 140 |
| 1758 | The root microbiota fingerprint in the soil?. 2013 , 370, 671-686 | 65 |
| 1757 | From molecules to dynamic biological communities. 2013 , 28, 241-259 | 12 |

| | | |
|------|---|-----|
| 1756 | Streptococcus bovis/Streptococcus equinus complex fecal carriage, colorectal carcinoma, and infective endocarditis: a new appraisal of a complex connection. 2013 , 32, 1171-6 | 25 |
| 1755 | Time series community genomics analysis reveals rapid shifts in bacterial species, strains, and phage during infant gut colonization. 2013 , 23, 111-20 | 324 |
| 1754 | Die Bedeutung des intestinalen Mikrobioms für die Gesundheit des Menschen. 2013 , 28, 105-109 | |
| 1753 | Bacterial and fungal viability in the preterm gut: NEC and sepsis. 2013 , 98, F298-303 | 54 |
| 1752 | Functions of intestinal microflora in children. 2013 , 29, 31-8 | 40 |
| 1751 | The winding road to understanding the neonatal origins of inflammatory gastrointestinal disorders. 2013 , 57, 543-9 | 6 |
| 1750 | Three main factors define changes in fecal microbiota associated with feeding modality in infants. 2013 , 57, 461-6 | 38 |
| 1749 | Nutrition, microbiomes, and intestinal inflammation. 2013 , 29, 603-7 | 24 |
| 1748 | Primocolonization is associated with colonic epithelial maturation during conventionalization. 2013 , 27, 645-55 | 55 |
| 1747 | Intestinal microbiota of infants with colic: development and specific signatures. 2013 , 131, e550-8 | 171 |
| 1746 | Distinct distal gut microbiome diversity and composition in healthy children from Bangladesh and the United States. 2013 , 8, e53838 | 224 |
| 1745 | Fungi of the murine gut: episodic variation and proliferation during antibiotic treatment. 2013 , 8, e71806 | 143 |
| 1744 | [The intestinal microbiota and human disease]. 2013 , 62, 85-91 | 4 |
| 1743 | The Gut Microbiota and IBD. 2013 , 35-42 | |
| 1742 | Diet, gut enterotypes and health: is there a link?. 2013 , 77, 65-73 | 13 |
| 1741 | Engineering the rabbit digestive ecosystem to improve digestive health and efficacy. 2013 , 7, 1429-39 | 41 |
| 1740 | Exploring host-microbiota interactions in animal models and humans. 2013 , 27, 701-18 | 308 |
| 1739 | Comparison of stool microbiota compositions, stool alpha1-antitrypsin and calprotectin concentrations, and diarrhoeal morbidity of Indonesian infants fed breast milk or probiotic/prebiotic-supplemented formula. 2013 , 49, 1032-9 | 16 |

| | | |
|------|---|-----|
| 1738 | Microbiota diversity and stability of the preterm neonatal ileum and colon of two infants. 2013 , 2, 215-25 | 31 |
| 1737 | Reshaping the gut microbiota at an early age: functional impact on obesity risk?. 2013 , 63 Suppl 2, 17-26 | 30 |
| 1736 | Crying in infants: on the possible role of intestinal microbiota in the development of colic. 2013 , 4, 416-21 | 58 |
| 1735 | The role of the gastrointestinal microbiome in <i>Helicobacter pylori</i> pathogenesis. 2013 , 4, 505-31 | 129 |
| 1734 | Biphasic assembly of the murine intestinal microbiota during early development. 2013 , 7, 1112-5 | 100 |
| 1733 | The gut microbiome: the role of a virtual organ in the endocrinology of the host. 2013 , 218, R37-47 | 140 |
| 1732 | Microbiome assembly across multiple body sites in low-birthweight infants. 2013 , 4, e00782-13 | 103 |
| 1731 | Gastrointestinal metabolization of human milk oligosaccharides. 2013 , 293-314 | 1 |
| 1730 | Gate-keeper function of the intestinal epithelium. 2013 , 4, 67-82 | 45 |
| 1729 | THE MICROBIOME: A MEDIATOR OF HUMAN WELLNESS. 2013 , 15, 5-15 | |
| 1728 | Oral microbial profile discriminates breast-fed from formula-fed infants. 2013 , 56, 127-36 | 99 |
| 1727 | [Gut microbiota: its clinical implications in the human body]. 2013 , 111, 523-7 | 2 |
| 1726 | Human Microbiome and Diseases: A Metagenomic Approach. 2013 , 235-249 | 2 |
| 1725 | Current status and future promise of the human microbiome. 2013 , 16, 71-9 | 55 |
| 1724 | Comparison of the distal gut microbiota from people and animals in Africa. 2013 , 8, e54783 | 52 |
| 1723 | Intestinal microbiota in healthy U.S. young children and adults--a high throughput microarray analysis. 2013 , 8, e64315 | 146 |
| 1722 | Archaea and fungi of the human gut microbiome: correlations with diet and bacterial residents. 2013 , 8, e66019 | 447 |
| 1721 | Bacterial diversity in meconium of preterm neonates and evolution of their fecal microbiota during the first month of life. 2013 , 8, e66986 | 249 |

| | | |
|------|--|-----|
| 1720 | Assessing the fecal microbiota: an optimized ion torrent 16S rRNA gene-based analysis protocol. 2013 , 8, e68739 | 205 |
| 1719 | Perinatal nutrition programs neuroimmune function long-term: mechanisms and implications. 2013 , 7, 144 | 26 |
| 1718 | Neonatal immune adaptation of the gut and its role during infections. 2013 , 2013, 270301 | 55 |
| 1717 | Cohabiting family members share microbiota with one another and with their dogs. 2013 , 2, e00458 | 616 |
| 1716 | Identification of aminoglycoside and β -lactam resistance genes from within an infant gut functional metagenomic library. 2014 , 9, e108016 | 41 |
| 1715 | Recruiting human microbiome shotgun data to site-specific reference genomes. 2014 , 9, e84963 | 4 |
| 1714 | Seasonal variation in human gut microbiome composition. 2014 , 9, e90731 | 179 |
| 1713 | Autoinducer-2 plays a crucial role in gut colonization and probiotic functionality of <i>Bifidobacterium breve</i> UCC2003. 2014 , 9, e98111 | 49 |
| 1712 | Maternal obesity is associated with alterations in the gut microbiome in toddlers. 2014 , 9, e113026 | 112 |
| 1711 | Methanogens, methane and gastrointestinal motility. 2014 , 20, 31-40 | 134 |
| 1710 | Friends with social benefits: host-microbe interactions as a driver of brain evolution and development?. 2014 , 4, 147 | 101 |
| 1709 | Dynamics of tongue microbial communities with single-nucleotide resolution using oligotyping. 2014 , 5, 568 | 26 |
| 1708 | From lifetime to evolution: timescales of human gut microbiota adaptation. 2014 , 5, 587 | 74 |
| 1707 | External influence of early childhood establishment of gut microbiota and subsequent health implications. 2014 , 2, 109 | 123 |
| 1706 | Early development of the gut microbiota and immune health. 2014 , 3, 769-90 | 105 |
| 1705 | The Importance of Microbiota and Host Interactions Throughout Life. 2014 , 489-511 | |
| 1704 | The effects of gut microbiota on CNS function in humans. 2014 , 5, 404-10 | 91 |
| 1703 | Maternally acquired genotoxic <i>Escherichia coli</i> alters offspring's intestinal homeostasis. 2014 , 5, 313-25 | 49 |

| | | |
|------|---|-----|
| 1702 | Benzoyl-CoA, a universal biomarker for anaerobic degradation of aromatic compounds. 2014 , 88, 167-203 | 28 |
| 1701 | The development of gut microbiota in critically ill extremely low birth weight infants assessed with 16S rRNA gene based sequencing. 2014 , 5, 304-12 | 26 |
| 1700 | Microbiome manipulation modifies sex-specific risk for autoimmunity. 2014 , 5, 485-93 | 51 |
| 1699 | Probiotics and virulent human rotavirus modulate the transplanted human gut microbiota in gnotobiotic pigs. 2014 , 6, 39 | 44 |
| 1698 | Essential tensions in infant rearing. 2014 , 2014, 48-50 | 5 |
| 1697 | Emerging science of the human microbiome. 2014 , 5, 446-57 | 36 |
| 1696 | Gut microbes and adverse food reactions: Focus on gluten related disorders. 2014 , 5, 594-605 | 30 |
| 1695 | The role of metagenomics in understanding the human microbiome in health and disease. 2014 , 5, 413-23 | 59 |
| 1694 | Bifidobacterium bifidum as an example of a specialized human gut commensal. 2014 , 5, 437 | 73 |
| 1693 | The intestinal microbiome in early life: health and disease. 2014 , 5, 427 | 472 |
| 1692 | Diet and the development of the human intestinal microbiome. 2014 , 5, 494 | 281 |
| 1691 | Meta-omic platforms to assist in the understanding of NAFLD gut microbiota alterations: tools and applications. 2014 , 15, 684-711 | 21 |
| 1690 | Early development of the gut microbiome and immune-mediated childhood disorders. 2014 , 32, 74-86 | 83 |
| 1689 | Microbial succession in the gut: directional trends of taxonomic and functional change in a birth cohort of Spanish infants. 2014 , 10, e1004406 | 115 |
| 1688 | The human intestinal microbiome at extreme ages of life. Dietary intervention as a way to counteract alterations. 2014 , 5, 406 | 96 |
| 1687 | Diarrhea in young children from low-income countries leads to large-scale alterations in intestinal microbiota composition. 2014 , 15, R76 | 150 |
| 1686 | Microbiology of the Anthropocene. 2014 , 5, 1-8 | 53 |
| 1685 | Hibernation alters the diversity and composition of mucosa-associated bacteria while enhancing antimicrobial defence in the gut of 13-lined ground squirrels. 2014 , 23, 4658-69 | 43 |

| | | |
|------|--|-----|
| 1684 | Major faecal microbiota shifts in composition and diversity with age in a geographically restricted cohort of mothers and their children. 2014 , 87, 280-90 | 121 |
| 1683 | The giraffe (<i>Giraffa camelopardalis</i>) rumen microbiome. 2014 , 90, 237-46 | 23 |
| 1682 | Human microbiota characterization in the course of renal transplantation. 2014 , 14, 416-27 | 99 |
| 1681 | Dendritic cells in IBD pathogenesis: an area of therapeutic opportunity?. 2014 , 232, 112-20 | 25 |
| 1680 | Microbial shifts in the aging mouse gut. 2014 , 2, 50 | 224 |
| 1679 | Incidence and phenotypic characteristics of pediatric IBD in northeastern Slovenia, 2002-2010. 2014 , 58, 325-32 | 22 |
| 1678 | Efficacy of fecal microbiota transplantation in 2 children with recurrent <i>Clostridium difficile</i> infection and its impact on their growth and gut microbiome. 2014 , 59, 565-70 | 32 |
| 1677 | Intestinal microbiota during early life - impact on health and disease. 2014 , 73, 457-69 | 36 |
| 1676 | Conditionally rare taxa disproportionately contribute to temporal changes in microbial diversity. 2014 , 5, e01371-14 | 359 |
| 1675 | Impact of the gut microbiota on the development of obesity and type 2 diabetes mellitus. 2014 , 5, 190 | 186 |
| 1674 | Proceedings of the 2013 A.S.P.E.N. Research workshop: the interface between nutrition and the gut microbiome: implications and applications for human health [corrected]. 2014 , 38, 167-78 | 12 |
| 1673 | Comment on "the placenta harbors a unique microbiome". 2014 , 6, 254le4 | 51 |
| 1672 | The central role of the gut microbiota in chronic inflammatory diseases. 2014 , 2014, 689492 | 110 |
| 1671 | A review of the epidemiology of inflammatory bowel disease with a focus on diet, infections and antibiotic exposure. 2014 , 79, 1-18 | 7 |
| 1670 | Diet, the gut microbiome and the metabolome in IBD. 2014 , 79, 73-82 | 14 |
| 1669 | Host lifestyle affects human microbiota on daily timescales. 2014 , 15, R89 | 548 |
| 1668 | Fecal short-chain fatty acids of very-low-birth-weight preterm infants fed expressed breast milk or formula. 2014 , 59, 725-31 | 20 |
| 1667 | Early empiric antibiotic use in preterm infants is associated with lower bacterial diversity and higher relative abundance of <i>Enterobacter</i> . 2014 , 165, 23-9 | 225 |

| | | |
|------|---|----------|
| 1666 | The dynamic microbiome. 2014 , 588, 4131-9 | 115 |
| 1665 | Associations between bacterial communities of house dust and infant gut. 2014 , 131, 25-30 | 38 |
| 1664 | Role of the enteric microbiota in intestinal homeostasis and inflammation. 2014 , 68, 122-33 | 109 |
| 1663 | Probiotics tailored to the infant: a window of opportunity. 2014 , 26, 141-7 | 35 |
| 1662 | Immune and genetic gardening of the intestinal microbiome. 2014 , 588, 4102-11 | 39 |
| 1661 | Ontogenetic variation in epibiont community structure in the deep-sea yeti crab, <i>Kiwa puravida</i> : convergence among crustaceans. 2014 , 23, 1457-72 | 24 |
| 1660 | Life at the beginning: perturbation of the microbiota by antibiotics in early life and its role in health and disease. 2014 , 15, 307-10 | 146 |
| 1659 | Fecal microbiomes of non-human primates in Western Uganda reveal species-specific communities largely resistant to habitat perturbation. 2014 , 76, 347-54 | 56 |
| 1658 | Functional and phylogenetic assembly of microbial communities in the human microbiome. 2014 , 22, 261-6 | 129 |
| 1657 | Beyond genetics. Influence of dietary factors and gut microbiota on type 1 diabetes. 2014 , 588, 4234-43 | 55 |
| 1656 | Dynamics and associations of microbial community types across the human body. 2014 , 509, 357-60 | 529 |
| 1655 | Establishment of intestinal microbiota during early life: a longitudinal, explorative study of a large cohort of Danish infants. 2014 , 80, 2889-900 | 289 |
| 1654 | Compositional and functional features of the gastrointestinal microbiome and their effects on human health. 2014 , 146, 1449-58 | 276 |
| 1653 | Diet and the intestinal microbiome: associations, functions, and implications for health and disease. 2014 , 146, 1564-72 | 379 |
| 1652 | From promotion to management: the wide impact of bacteria on cancer and its treatment. 2014 , 36, 658-64 | 7 |
| 1651 | Lactic Acid Bacteria. 2014 , | 15 |
| 1650 | The placenta harbors a unique microbiome. 2014 , 6, 237ra65 | 1326 |
| 1649 | Mathematical modeling of primary succession of murine intestinal microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 439-44 | 11.5 130 |

| | | |
|------|---|------|
| 1648 | Decreased gut microbiota diversity, delayed Bacteroidetes colonisation and reduced Th1 responses in infants delivered by caesarean section. 2014 , 63, 559-66 | 636 |
| 1647 | Bifidobacteria: their impact on gut microbiota composition and their applications as probiotics in infants. 2014 , 98, 563-77 | 118 |
| 1646 | Intestinal microbiota, diet and health. 2014 , 111, 387-402 | 275 |
| 1645 | Impact of diet on human intestinal microbiota and health. 2014 , 5, 239-62 | 147 |
| 1644 | Sphingolipids from a symbiotic microbe regulate homeostasis of host intestinal natural killer T cells. 2014 , 156, 123-33 | 363 |
| 1643 | Human genetics shape the gut microbiome. 2014 , 159, 789-99 | 1750 |
| 1642 | Viruses and microbiome alterations. 2014 , 11 Suppl 1, S57-60 | 39 |
| 1641 | High-fat maternal diet during pregnancy persistently alters the offspring microbiome in a primate model. 2014 , 5, 3889 | 288 |
| 1640 | Pre-birth world and the development of the immune system: mum's diet affects our adult health: new insight on how the diet during pregnancy permanently influences offspring health and immune fitness. 2014 , 36, 1213-20 | 5 |
| 1639 | Dialogue between skin microbiota and immunity. 2014 , 346, 954-9 | 345 |
| 1638 | Microbiome diversity and asthma and allergy risk. 2014 , 14, 466 | 51 |
| 1637 | Early respiratory microbiota composition determines bacterial succession patterns and respiratory health in children. 2014 , 190, 1283-92 | 329 |
| 1636 | Microbial determinants of biochemical individuality and their impact on toxicology and pharmacology. 2014 , 20, 761-768 | 43 |
| 1635 | Temporal dynamics of the cecal gut microbiota of juvenile arctic ground squirrels: a strong litter effect across the first active season. 2014 , 80, 4260-8 | 13 |
| 1634 | Commensal microbial regulation of natural killer T cells at the frontiers of the mucosal immune system. 2014 , 588, 4188-94 | 31 |
| 1633 | Inflammatory bowel disease as a model for translating the microbiome. 2014 , 40, 843-54 | 237 |
| 1632 | An Overview of the Microbiome and the Effects of Antibiotics. 2014 , 10, 445-450 | 8 |
| 1631 | The intestinal microbiome in type 1 diabetes. 2014 , 177, 30-7 | 77 |

| | | |
|------|---|----------|
| 1630 | The impact of postnatal antibiotics on the preterm intestinal microbiome. 2014 , 76, 150-8 | 45 |
| 1629 | The impact of breastfeeding on nasopharyngeal microbial communities in infants. 2014 , 190, 298-308 | 130 |
| 1628 | Patterned progression of bacterial populations in the premature infant gut. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 12522-7 | 11.5 339 |
| 1627 | Collateral damage: microbiota-derived metabolites and immune function in the antibiotic era. 2014 , 16, 156-163 | 40 |
| 1626 | Microbial genomic analysis reveals the essential role of inflammation in bacteria-induced colorectal cancer. 2014 , 5, 4724 | 222 |
| 1625 | The dynamics of a family's gut microbiota reveal variations on a theme. 2014 , 2, 25 | 73 |
| 1624 | Gut microbiota, the pharmabiotics they produce and host health. 2014 , 73, 477-89 | 91 |
| 1623 | Microbial engineering of flocc Fe and trace element geochemistry in a circumneutral, remote lake. 2014 , 48, 6578-87 | 9 |
| 1622 | Aberrant gut microbiota composition at the onset of type 1 diabetes in young children. 2014 , 57, 1569-77 | 202 |
| 1621 | Metagenomic profiles and antibiotic resistance genes in gut microbiota of mice exposed to arsenic and iron. 2014 , 112, 1-8 | 60 |
| 1620 | Navigating the Pediatric Microbiome: Emerging Evidence and Clinical Implications. 2014 , 2, 93-101 | 2 |
| 1619 | The microbiota, the immune system and the allograft. 2014 , 14, 1236-48 | 45 |
| 1618 | Dysbiosis of salivary microbiota in inflammatory bowel disease and its association with oral immunological biomarkers. 2014 , 21, 15-25 | 212 |
| 1617 | The first thousand days - intestinal microbiology of early life: establishing a symbiosis. 2014 , 25, 428-38 | 187 |
| 1616 | The role of gut microbes in satisfying the nutritional demands of adult and juvenile wild, black howler monkeys (<i>Alouatta pigra</i>). 2014 , 155, 652-64 | 66 |
| 1615 | The human microbiome and bile acid metabolism: dysbiosis, dysmetabolism, disease and intervention. 2014 , 14, 467-82 | 87 |
| 1614 | The human gut microbiota: a dynamic interplay with the host from birth to senescence settled during childhood. 2014 , 76, 2-10 | 144 |
| 1613 | The microbiota regulates neutrophil homeostasis and host resistance to <i>Escherichia coli</i> K1 sepsis in neonatal mice. 2014 , 20, 524-30 | 335 |

| | | |
|------|--|-----|
| 1612 | Characterization of the intestinal microbiome of Hirschsprung's disease with and without enterocolitis. 2014 , 445, 269-74 | 30 |
| 1611 | Antibiotic treatment during infancy and increased body mass index in boys: an international cross-sectional study. 2014 , 38, 1115-9 | 119 |
| 1610 | A metaproteomic pipeline to identify newborn mouse gut phylotypes. 2014 , 97, 17-26 | 13 |
| 1609 | Friendly pathogens: prevent or provoke autoimmunity. 2014 , 40, 273-80 | 9 |
| 1608 | Ecology and characteristics of methanogenic archaea in animals and humans. 2014 , 40, 97-116 | 41 |
| 1607 | Antibiotics and the gut microbiota. 2014 , 124, 4212-8 | 375 |
| 1606 | Genetically identical co-housed pigs as models for dietary studies of gut microbiomes. 2014 , 1, | 3 |
| 1605 | Use of High-Pressure Homogenization for Improving the Quality and Functionality of Probiotics. 2014 , 292-309 | |
| 1604 | Early-Life Gut Microbial Composition. 2015 , 05, 041-050 | 7 |
| 1603 | Neonatal CD71+ Erythroid Cells Do Not Modify Murine Sepsis Mortality. 2015 , 195, 1064-70 | 21 |
| 1602 | In This Issue. 2015 , 195, 753-754 | |
| 1601 | Lactic Acid Bacteria and the Human Intestinal Microbiome. 2015 , 120-133 | |
| 1600 | The Human Intestinal Microbiota and Microbiome. 2015 , 617-625 | |
| 1599 | Stunting Persists despite Optimal Feeding: Are Toilets Part of the Solution?. 2015 , 81, 99-110 | 10 |
| 1598 | Bacteroid Differentiation in Legume Nodules: Role of AMP-Like Host Peptides in the Control of the Endosymbiont. 2015 , 669-681 | 1 |
| 1597 | Childhood obesity: a role for gut microbiota?. 2014 , 12, 162-75 | 41 |
| 1596 | Production of immune response mediators by HT-29 intestinal cell-lines in the presence of Bifidobacterium-treated infant microbiota. 2015 , 6, 543-52 | 12 |
| 1595 | Is Promoting Gut Microbial Diversity in Neonatal Enterocolitis the NECst Step?. 2015 , 60, 3499-501 | |

| | | |
|------|--|-----|
| 1594 | Inferring microbial interaction network from microbiome data using RMN algorithm. 2015 , 9, 54 | 15 |
| 1593 | Maternal fucosyltransferase 2 status affects the gut bifidobacterial communities of breastfed infants. 2015 , 3, 13 | 244 |
| 1592 | Gut resistome development in healthy twin pairs in the first year of life. 2015 , 3, 27 | 60 |
| 1591 | The role of breast-feeding in infant immune system: a systems perspective on the intestinal microbiome. 2015 , 3, 41 | 67 |
| 1590 | Context and the human microbiome. 2015 , 3, 52 | 58 |
| 1589 | Metaproteomics reveals functional shifts in microbial and human proteins during a preterm infant gut colonization case. 2015 , 15, 3463-73 | 41 |
| 1588 | Mode of Birth Influences Preterm Infant Intestinal Colonization With Bacteroides Over the Early Neonatal Period. 2015 , 15, 386-93 | 30 |
| 1587 | Potential NICU Environmental Influences on the Neonate's Microbiome: A Systematic Review. 2015 , 15, 324-35 | 55 |
| 1586 | Gut colonization with methanobrevibacter smithii is associated with childhood weight development. 2015 , 23, 2508-16 | 35 |
| 1585 | The gut microbiome: a new frontier for alcohol investigation. 2015 , 39, 947-9 | 8 |
| 1584 | On the origin of species: Factors shaping the establishment of infant's gut microbiota. 2015 , 105, 240-51 | 48 |
| 1583 | The role of the commensal microbiota in the regulation of tolerance to dietary allergens. 2015 , 15, 243-9 | 41 |
| 1582 | Towards large-cohort comparative studies to define the factors influencing the gut microbial community structure of ASD patients. 2015 , 26, 26555 | 13 |
| 1581 | Ecology and Evolution of the Human Microbiota: Fire, Farming and Antibiotics. 2015 , 6, 841-57 | 48 |
| 1580 | Milk- and solid-feeding practices and daycare attendance are associated with differences in bacterial diversity, predominant communities, and metabolic and immune function of the infant gut microbiome. 2015 , 5, 3 | 135 |
| 1579 | Computational Studies of the Intestinal Host-Microbiota Interactome. 2015 , 3, 2-28 | 5 |
| 1578 | The Gut Microbiota as a Therapeutic Target in IBD and Metabolic Disease: A Role for the Bile Acid Receptors FXR and TGR5. 2015 , 3, 641-66 | 36 |
| 1577 | The infant gut microbiome: evidence for obesity risk and dietary intervention. 2015 , 7, 2237-60 | 91 |

| | | |
|------|---|-----|
| 1576 | Mechanisms of Microbe-Host Interaction in Crohn's Disease: Dysbiosis vs. Pathobiont Selection. 2015 , 6, 555 | 51 |
| 1575 | Strain-resolved microbial community proteomics reveals simultaneous aerobic and anaerobic function during gastrointestinal tract colonization of a preterm infant. 2015 , 6, 654 | 22 |
| 1574 | Reutericyclin producing <i>Lactobacillus reuteri</i> modulates development of fecal microbiota in weanling pigs. 2015 , 6, 762 | 24 |
| 1573 | Characterization of the gut microbiota of Kawasaki disease patients by metagenomic analysis. 2015 , 6, 824 | 30 |
| 1572 | Microbiomes: unifying animal and plant systems through the lens of community ecology theory. 2015 , 6, 869 | 88 |
| 1571 | Longitudinal Microbiome Data Analysis. 2015 , 97-111 | 4 |
| 1570 | Altered CD161 bright CD8+ mucosal associated invariant T (MAIT)-like cell dynamics and increased differentiation states among juvenile type 1 diabetics. 2015 , 10, e0117335 | 20 |
| 1569 | The gut microbiota composition in dichorionic triplet sets suggests a role for host genetic factors. 2015 , 10, e0122561 | 27 |
| 1568 | Patterns of gut bacterial colonization in three primate species. 2015 , 10, e0124618 | 37 |
| 1567 | Oral Microbiota Shift after 12-Week Supplementation with <i>Lactobacillus reuteri</i> DSM 17938 and PTA 5289; A Randomized Control Trial. 2015 , 10, e0125812 | 38 |
| 1566 | Exercise is More Effective at Altering Gut Microbial Composition and Producing Stable Changes in Lean Mass in Juvenile versus Adult Male F344 Rats. 2015 , 10, e0125889 | 106 |
| 1565 | Early-Life Exposure to Antibiotics, Alterations in the Intestinal Microbiome, and Risk of Metabolic Disease in Children and Adults. 2015 , 44, e265-9 | 41 |
| 1564 | Neutral Models of Microbiome Evolution. 2015 , 11, e1004365 | 35 |
| 1563 | Maturation of Oral Microbiota in Children with or without Dental Caries. 2015 , 10, e0128534 | 63 |
| 1562 | Phylogenetic and Metabolic Tracking of Gut Microbiota during Perinatal Development. 2015 , 10, e0137347 | 63 |
| 1561 | Global Profiling of Carbohydrate Active Enzymes in Human Gut Microbiome. 2015 , 10, e0142038 | 48 |
| 1560 | Interactive Effects of Indigestible Carbohydrates, Protein Type, and Protein Level on Biomarkers of Large Intestine Health in Rats. 2015 , 10, e0142176 | 17 |
| 1559 | A Longitudinal Study of the Feline Faecal Microbiome Identifies Changes into Early Adulthood Irrespective of Sexual Development. 2015 , 10, e0144881 | 35 |

| | | |
|------|---|-----|
| 1558 | Risks of Antibiotic Exposures Early in Life on the Developing Microbiome. 2015 , 11, e1004903 | 65 |
| 1557 | Signaling in the phytomicrobiome: breadth and potential. 2015 , 6, 709 | 53 |
| 1556 | Harnessing the Microbiome to Enhance Cancer Immunotherapy. 2015 , 2015, 368736 | 41 |
| 1555 | Human Microbiome Engineering: The Future and Beyond. 2015 , 9, DE01-4 | 13 |
| 1554 | Gut microbiota and host metabolism in liver cirrhosis. 2015 , 21, 11597-608 | 68 |
| 1553 | . 2015 , | 10 |
| 1552 | Application of metagenomics in the human gut microbiome. 2015 , 21, 803-14 | 204 |
| 1551 | Production of biologically active scFv and VHH antibody fragments in Bifidobacterium longum. 2015 , 362, fnv083 | 12 |
| 1550 | The composition of the gut microbiota throughout life, with an emphasis on early life. 2015 , 26, 26050 | 505 |
| 1549 | The human gut microbiota with reference to autism spectrum disorder: considering the whole as more than a sum of its parts. 2015 , 26, 26309 | 25 |
| 1548 | The Mucosal Microbiome. 2015 , 63-77 | 2 |
| 1547 | Microbiota and Host Nutrition across Plant and Animal Kingdoms. 2015 , 17, 603-16 | 373 |
| 1546 | Early factors leading to later obesity: interactions of the microbiome, epigenome, and nutrition. 2015 , 45, 134-42 | 23 |
| 1545 | Collective unconscious: how gut microbes shape human behavior. 2015 , 63, 1-9 | 300 |
| 1544 | Community quorum sensing signalling and quenching: microbial granular biofilm assembly. 2015 , 1, 15006 | 105 |
| 1543 | Human seroreactivity to gut microbiota antigens. 2015 , 136, 1378-86.e1-5 | 29 |
| 1542 | Spread of tetracycline resistance genes at a conventional dairy farm. 2015 , 6, 536 | 48 |
| 1541 | The human microbiome in hematopoiesis and hematologic disorders. 2015 , 126, 311-8 | 52 |

| | | |
|------|--|-----|
| 1540 | The microbiome and autoimmune disease: Report from a Noel R. Rose Colloquium. 2015 , 159, 183-8 | 14 |
| 1539 | Environment, dysbiosis, immunity and sex-specific susceptibility: a translational hypothesis for regressive autism pathogenesis. 2015 , 18, 145-61 | 44 |
| 1538 | Review article: dietary fibre-microbiota interactions. 2015 , 42, 158-79 | 288 |
| 1537 | Pathogenesis of IgE-mediated food allergy. 2015 , 45, 1483-96 | 32 |
| 1536 | Having older siblings is associated with gut microbiota development during early childhood. 2015 , 15, 154 | 69 |
| 1535 | Characterization of the bacterial gut microbiota of piglets suffering from new neonatal porcine diarrhoea. 2015 , 11, 139 | 49 |
| 1534 | Beneficial Microorganisms in Medical and Health Applications. 2015 , | 5 |
| 1533 | Microbes As Friends, Not Foes: Shifting the Focus from Pathogenesis to Symbiosis. 2015 , 77, 659-668 | 2 |
| 1532 | SCFA Producing Gut Microbiota and its Effects on the Epigenetic Regulation of Inflammation. 2015 , 181-197 | 1 |
| 1531 | The regulation of fecal microbiota for transplantation: An international perspective for policy and public health. 2015 , 32, 99-107 | 12 |
| 1530 | The human microbiome, asthma, and allergy. 2015 , 11, 35 | 76 |
| 1529 | Time-series metagenomic analysis reveals robustness of soil microbiome against chemical disturbance. 2015 , 22, 413-24 | 24 |
| 1528 | Characterizing the fecal microbiota of infants with botulism. 2015 , 3, 54 | 11 |
| 1527 | Dynamics and diversity of the 'Atopobium cluster' in the human faecal microbiota, and phenotypic characterization of 'Atopobium cluster' isolates. 2015 , 161, 565-79 | 18 |
| 1526 | Gut microbiome composition is associated with temperament during early childhood. 2015 , 45, 118-27 | 101 |
| 1525 | Ancient human microbiomes. 2015 , 79, 125-36 | 90 |
| 1524 | New Molecular Techniques to Study the Skin Microbiota of Diabetic Foot Ulcers. 2015 , 4, 38-49 | 46 |
| 1523 | Insights on the human microbiome and its xenobiotic metabolism: what is known about its effects on human physiology?. 2015 , 11, 411-25 | 39 |

| | | | |
|------|--|------|------|
| 1522 | Early life events influence whole-of-life metabolic health via gut microflora and gut permeability. 2015 , 41, 326-40 | | 72 |
| 1521 | Barcoded pyrosequencing-based metagenomic analysis of the faecal microbiome of three purebred pig lines after cohabitation. 2015 , 99, 5647-56 | | 18 |
| 1520 | Dynamics of infant gut microbiota are influenced by delivery mode and gestational duration and are associated with subsequent adiposity. 2015 , 6, | | 200 |
| 1519 | Prewaning modulation of intestinal microbiota by oligosaccharides or amoxicillin can contribute to programming of adult microbiota in rats. 2015 , 31, 515-22 | | 24 |
| 1518 | Prematurity and perinatal antibiotics: a tale of two factors influencing development of the neonatal gut microbiota. 2015 , 166, 515-7 | | 8 |
| 1517 | Intestinal microbiota and diet in IBS: causes, consequences, or epiphenomena?. 2015 , 110, 278-87 | | 225 |
| 1516 | Structure, variation, and assembly of the root-associated microbiomes of rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E911-20 | 11.5 | 1206 |
| 1515 | Diet in the pathogenesis and treatment of inflammatory bowel diseases. 2015 , 148, 1087-106 | | 227 |
| 1514 | The infant microbiome development: mom matters. 2015 , 21, 109-17 | | 515 |
| 1513 | The dynamics of the human infant gut microbiome in development and in progression toward type 1 diabetes. 2015 , 17, 260-73 | | 639 |
| 1512 | Microbial activities and intestinal homeostasis: A delicate balance between health and disease. 2015 , 1, 28-40 | | 98 |
| 1511 | Similarities and seasonal variations in bacterial communities from the blood of rodents and from their flea vectors. 2015 , 9, 1662-76 | | 21 |
| 1510 | Metabonomics and Gut Microbiota in Nutrition and Disease. 2015 , | | 2 |
| 1509 | Food, immunity, and the microbiome. 2015 , 148, 1107-19 | | 193 |
| 1508 | The role of the gut microbiome in the healthy adult status. 2015 , 451, 97-102 | | 232 |
| 1507 | 'Metagenomics 2.0'. 2015 , 7, 38-9 | | 11 |
| 1506 | Dietary effects on human gut microbiome diversity. 2015 , 113 Suppl, S1-5 | | 256 |
| 1505 | Development of the honey bee gut microbiome throughout the queen-rearing process. 2015 , 81, 3182-91 | | 67 |

| | | |
|------|---|-----|
| 1504 | Early colonizing <i>Escherichia coli</i> elicits remodeling of rat colonic epithelium shifting toward a new homeostatic state. 2015 , 9, 46-58 | 24 |
| 1503 | Obesity and the microbiome. 2015 , 9, 1087-99 | 86 |
| 1502 | Antibiotics and the developing infant gut microbiota and resistome. 2015 , 27, 51-6 | 120 |
| 1501 | Microbiology and ecology are vitally important to premedical curricula. 2015 , 2015, 179-92 | 4 |
| 1500 | Exploring Vertical Transmission of Bifidobacteria from Mother to Child. 2015 , 81, 7078-87 | 150 |
| 1499 | Metabolome progression during early gut microbial colonization of gnotobiotic mice. 2015 , 5, 11589 | 24 |
| 1498 | The establishment of the infant intestinal microbiome is not affected by rotavirus vaccination. 2014 , 4, 7417 | 15 |
| 1497 | Antibiotic Exposure and Juvenile Idiopathic Arthritis: A Case-Control Study. 2015 , 136, e333-43 | 77 |
| 1496 | Developmental Regulation of Drug-Processing Genes in Livers of Germ-Free Mice. 2015 , 147, 84-103 | 58 |
| 1495 | A Post-Genomic View of the Ecophysiology, Catabolism and Biotechnological Relevance of Sulphate-Reducing Prokaryotes. 2015 , 66, 55-321 | 150 |
| 1494 | Rumen Microbiology: From Evolution to Revolution. 2015 , | 30 |
| 1493 | Bakterien Ihre Entdeckung und Bedeutung für Natur und Mensch. 2015 , | 2 |
| 1492 | Dynamics of the nasal microbiota in infancy: a prospective cohort study. 2015 , 135, 905-912.e11 | 71 |
| 1491 | The relationship between phenolic compounds from diet and microbiota: impact on human health. 2015 , 6, 2424-39 | 140 |
| 1490 | Use of Acid Suppression Medication is Associated With Risk for <i>C. difficile</i> Infection in Infants and Children: A Population-based Study. 2015 , 61, 912-7 | 56 |
| 1489 | Preterm infant gut colonization in the neonatal ICU and complete restoration 2 years later. 2015 , 21, 936.e1-10 | 41 |
| 1488 | 16S rRNA gene-based profiling of the human infant gut microbiota is strongly influenced by sample processing and PCR primer choice. 2015 , 3, 26 | 153 |
| 1487 | Alterations in the Vaginal Microbiome by Maternal Stress Are Associated With Metabolic Reprogramming of the Offspring Gut and Brain. 2015 , 156, 3265-76 | 216 |

| | | |
|------|---|------|
| 1486 | Explaining diversity in metagenomic datasets by phylogenetic-based feature weighting. 2015 , 11, e1004186 | 17 |
| 1485 | Emerging roles of gut microbiota and the immune system in the development of the enteric nervous system. 2015 , 125, 956-64 | 68 |
| 1484 | Dynamic efficiency of the human intestinal microbiota. 2015 , 41, 165-71 | 28 |
| 1483 | Overuse and underutilization in youth sports: time to seek ´equipoise. 2015 , 166, 517-9 | 3 |
| 1482 | [Interaction between humans and intestinal bacteria as a determinant for intestinal health : intestinal microbiome and inflammatory bowel diseases]. 2015 , 58, 159-65 | 3 |
| 1481 | IBD and the gut microbiota--from bench to personalized medicine. 2015 , 17, 15 | 45 |
| 1480 | Perturbation and restoration of the fathead minnow gut microbiome after low-level triclosan exposure. 2015 , 3, 6 | 96 |
| 1479 | Kinship, inbreeding and fine-scale spatial structure influence gut microbiota in a hindgut-fermenting tortoise. 2015 , 24, 2521-36 | 59 |
| 1478 | Theories, Mechanisms and Patterns of Microbiome Species Coexistence in an Era of Climate Change. 2015 , 13-53 | 4 |
| 1477 | Our unique microbial identity. 2015 , 16, 97 | 13 |
| 1476 | A novel role for maternal stress and microbial transmission in early life programming and neurodevelopment. 2015 , 1, 81-88 | 100 |
| 1475 | 1.8 Gut microbiota in infants. 2015 , 113, 87-91 | 3 |
| 1474 | Resistant starch diet induces change in the swine microbiome and a predominance of beneficial bacterial populations. 2015 , 3, 16 | 87 |
| 1473 | Dynamics and Stabilization of the Human Gut Microbiome during the First Year of Life. 2015 , 17, 690-703 | 1367 |
| 1472 | Antibiotics, pediatric dysbiosis, and disease. 2015 , 17, 553-64 | 305 |
| 1471 | Sewage reflects the microbiomes of human populations. 2015 , 6, e02574 | 153 |
| 1470 | Nutri(meta)genetics and cardiovascular disease: novel concepts in the interaction of diet and genomic variation. 2015 , 17, 505 | 9 |
| 1469 | Associations between host gene expression, the mucosal microbiome, and clinical outcome in the pelvic pouch of patients with inflammatory bowel disease. 2015 , 16, 67 | 119 |

| | | |
|------|---|-----|
| 1468 | Selection in the host structures the microbiota associated with developing cod larvae (<i>Gadus morhua</i>). 2015 , 17, 3914-24 | 59 |
| 1467 | The perinatal microbiome and pregnancy: moving beyond the vaginal microbiome. 2015 , 5, | 63 |
| 1466 | Fate, activity, and impact of ingested bacteria within the human gut microbiota. 2015 , 23, 354-66 | 322 |
| 1465 | Why is initial bacterial colonization of the intestine important to infants' and children's health?. 2015 , 60, 294-307 | 175 |
| 1464 | Maternal exposure to fish oil primes offspring to harbor intestinal pathobionts associated with altered immune cell balance. 2015 , 6, 24-32 | 31 |
| 1463 | Pathogenesis of neonatal necrotizing enterocolitis. 2015 , 31, 509-18 | 68 |
| 1462 | The effects of consuming probiotic-fermented milk on the immune system: A review of scientific evidence. 2015 , 68, 153-165 | 23 |
| 1461 | Can inflammatory bowel disease be permanently treated with short-term interventions on the microbiome?. 2015 , 9, 781-95 | 36 |
| 1460 | Ontogenetic Differences in Dietary Fat Influence Microbiota Assembly in the Zebrafish Gut. 2015 , 6, e00687-1567 | |
| 1459 | American Diabetes Association and JDRF Research Symposium: Diabetes and the Microbiome. 2015 , 64, 3967-77 | 25 |
| 1458 | Extensive intra-phylo-type diversity in lactobacilli and bifidobacteria from the honeybee gut. 2015 , 16, 284 | 81 |
| 1457 | Impact of Early-Life Exposures on Immune Maturation and Susceptibility to Disease. 2015 , 36, 684-696 | 109 |
| 1456 | Structure and function of the healthy pre-adolescent pediatric gut microbiome. 2015 , 3, 36 | 204 |
| 1455 | Frailty and the Microbiome. 2015 , 41, 54-65 | 9 |
| 1454 | The microbiota and microbiome in aging: potential implications in health and age-related diseases. 2015 , 63, 776-81 | 163 |
| 1453 | Interactions between Cooccurring Lactic Acid Bacteria in Honey Bee Hives. 2015 , 81, 7261-70 | 35 |
| 1452 | Revisiting the hygiene hypothesis for allergy and asthma. 2015 , 136, 860-5 | 97 |
| 1451 | Milk bioactives may manipulate microbes to mediate parent-offspring conflict. 2015 , 2015, 106-21 | 29 |

| | | |
|------|---|-----|
| 1450 | Gut Microbiome: What We Do and Don't Know. 2015 , 30, 734-46 | 149 |
| 1449 | Role of the Gut Microbiome in Obesity and Diabetes Mellitus. 2015 , 30, 787-97 | 135 |
| 1448 | Diet shapes the gut microbiome of pigs during nursing and weaning. 2015 , 3, 28 | 255 |
| 1447 | Early life dynamics of the human gut virome and bacterial microbiome in infants. 2015 , 21, 1228-34 | 332 |
| 1446 | New developments providing mechanistic insight into the impact of the microbiota on allergic disease. 2015 , 159, 170-6 | 30 |
| 1445 | Intestinal Microbiota in Animal Models of Inflammatory Diseases. 2015 , 56, 179-91 | 26 |
| 1444 | The Intestinal Microbiota in Inflammatory Bowel Disease. 2015 , 56, 192-204 | 111 |
| 1443 | Rumen Metagenomics. 2015 , 223-245 | 4 |
| 1442 | Gut Microbiome Composition in Young Nicaraguan Children During Diarrhea Episodes and Recovery. 2015 , 93, 1187-93 | 20 |
| 1441 | Potential Etiologic Factors of Microbiome Disruption in Autism. 2015 , 37, 976-83 | 35 |
| 1440 | Assessing the Intestinal Microbiota in the SHINE Trial. 2015 , 61 Suppl 7, S738-44 | 8 |
| 1439 | In Vitro Fermentation of caprine milk oligosaccharides by bifidobacteria isolated from breast-fed infants. 2015 , 6, 352-63 | 13 |
| 1438 | The gut microbiota keeps enteric glial cells on the move; prospective roles of the gut epithelium and immune system. 2015 , 6, 398-403 | 33 |
| 1437 | Insights from genomes of representatives of the human gut commensal <i>Bifidobacterium bifidum</i> . 2015 , 17, 2515-31 | 61 |
| 1436 | Probiotic Microorganisms for Shaping the Human Gut Microbiota [Mechanisms and Efficacy into the Future. 2015 , 27-40 | |
| 1435 | Effects of the gut microbiota on bone mass. 2015 , 26, 69-74 | 120 |
| 1434 | Intra- and interindividual variations mask interspecies variation in the microbiota of sympatric <i>Peromyscus</i> populations. 2015 , 81, 396-404 | 43 |
| 1433 | The known, the unknown and the unknowable: weaning times from archaeological bones using nitrogen isotope ratios. 2015 , 53, 618-625 | 72 |

| | | |
|------|--|-----|
| 1432 | Deciphering the human microbiome using next-generation sequencing data and bioinformatics approaches. 2015 , 79-80, 52-9 | 35 |
| 1431 | Mechanisms in endocrinology: Gut microbiota in patients with type 2 diabetes mellitus. 2015 , 172, R167-77 | 119 |
| 1430 | Biotic interactions and temporal dynamics of the human gastrointestinal microbiota. 2015 , 9, 533-41 | 22 |
| 1429 | Immune homeostasis, dysbiosis and therapeutic modulation of the gut microbiota. 2015 , 179, 363-77 | 177 |
| 1428 | Childhood malnutrition and the intestinal microbiome. 2015 , 77, 256-62 | 85 |
| 1427 | Maternal influences on fetal microbial colonization and immune development. 2015 , 77, 189-95 | 139 |
| 1426 | Phage-bacteria network analysis and its implication for the understanding of coral disease. 2015 , 17, 1203-18 | 59 |
| 1425 | Host adaptive immunity alters gut microbiota. 2015 , 9, 770-81 | 128 |
| 1424 | Diet and host-microbial crosstalk in postnatal intestinal immune homeostasis. 2015 , 12, 14-25 | 61 |
| 1423 | 6. Die physiologische Standortflora. 2016 , | |
| 1422 | Hypoallergenic formula with Lactobacillus rhamnosus GG for babies with colic: A pilot study of recruitment, retention, and fecal biomarkers. 2016 , 7, 160-70 | 16 |
| 1421 | An Exposome Perspective on Environmental Enteric Dysfunction. 2016 , 124, 1121-6 | 14 |
| 1420 | Altering the Gut Microbiome for Cognitive Benefit?. 2016 , 319-337 | 1 |
| 1419 | Microbiome and Allergy. 2016 , 336-345 | 1 |
| 1418 | The Microbiota of Non-cow Milk and Products. 2016 , 117-159 | 2 |
| 1417 | Gut bacterial microbiota in psoriasis: A case control study. 2016 , 10, 1337-1343 | 20 |
| 1416 | Microbiome and the Effect on Immune Response. 2016 , 171-194 | |
| 1415 | Genomic Technologies in Medicine and Health. 2016 , 15-28 | 4 |

| | | |
|------|---|-----|
| 1414 | The New Era of Treatment for Obesity and Metabolic Disorders: Evidence and Expectations for Gut Microbiome Transplantation. 2016 , 6, 15 | 45 |
| 1413 | Gut Microbiota: A Contributing Factor to Obesity. 2016 , 6, 95 | 52 |
| 1412 | Gut Microbiome and Kidney Disease in Pediatrics: Does Connection Exist?. 2016 , 7, 235 | 4 |
| 1411 | Gut Microbiota Diversity and Human Diseases: Should We Reintroduce Key Predators in Our Ecosystem?. 2016 , 7, 455 | 268 |
| 1410 | Quantification of Slackia and Eggerthella spp. in Human Feces and Adhesion of Representative Strains to Caco-2 Cells. 2016 , 7, 658 | 22 |
| 1409 | Microbial Changes during Pregnancy, Birth, and Infancy. 2016 , 7, 1031 | 257 |
| 1408 | Gut Bifidobacteria Populations in Human Health and Aging. 2016 , 7, 1204 | 261 |
| 1407 | Age and Gender Affect the Composition of Fungal Population of the Human Gastrointestinal Tract. 2016 , 7, 1227 | 112 |
| 1406 | Gradual Changes of Gut Microbiota in Weaned Miniature Piglets. 2016 , 7, 1727 | 87 |
| 1405 | Thiamine Deficiency in Tropical Pediatrics: New Insights into a Neglected but Vital Metabolic Challenge. 2016 , 3, 16 | 45 |
| 1404 | The Eukaryotic Microbiome: Origins and Implications for Fetal and Neonatal Life. 2016 , 4, 96 | 23 |
| 1403 | Impact of Prematurity and Perinatal Antibiotics on the Developing Intestinal Microbiota: A Functional Inference Study. 2016 , 17, | 81 |
| 1402 | Microbiome, Metabolome and Inflammatory Bowel Disease. 2016 , 4, | 95 |
| 1401 | Gut Microbiota and Coronary Artery Disease. 2016 , 57, 663-671 | 37 |
| 1400 | Effect of Saccharomyces boulardii and Mode of Delivery on the Early Development of the Gut Microbial Community in Preterm Infants. 2016 , 11, e0150306 | 22 |
| 1399 | Longitudinal Analysis of the Intestinal Microbiota in Persistently Stunted Young Children in South India. 2016 , 11, e0155405 | 53 |
| 1398 | Association of Chorioamnionitis with Aberrant Neonatal Gut Colonization and Adverse Clinical Outcomes. 2016 , 11, e0162734 | 23 |
| 1397 | Gut Microbiota Modification: Another Piece in the Puzzle of the Benefits of Physical Exercise in Health?. 2016 , 7, 51 | 110 |

| | | |
|------|---|-----|
| 1396 | Enteric Viral Metagenomics. 2016 , 523-533 | 1 |
| 1395 | . 2016 , | 8 |
| 1394 | Pili in Probiotic Bacteria. 2016 , | 3 |
| 1393 | The Infant Microbiome: Implications for Infant Health and Neurocognitive Development. 2016 , 65, 76-88 | 127 |
| 1392 | Changes in the Functional Potential of the Gut Microbiome Following Probiotic Supplementation during Helicobacter Pylori Treatment. 2016 , 21, 493-503 | 16 |
| 1391 | Microbiome evolution along divergent branches of the vertebrate tree of life: what is known and unknown. 2016 , 25, 3776-800 | 178 |
| 1390 | Polysaccharide Degradation by the Intestinal Microbiota and Its Influence on Human Health and Disease. 2016 , 428, 3230-3252 | 251 |
| 1389 | The complex interplay of diet, xenobiotics, and microbial metabolism in the gut: Implications for clinical outcomes. 2016 , 99, 588-99 | 20 |
| 1388 | Application of multivariate statistical techniques in microbial ecology. 2016 , 25, 1032-57 | 199 |
| 1387 | The human gut microbiota and its interactive connections to diet. 2016 , 29, 539-46 | 40 |
| 1386 | The Built Environment Is a Microbial Wasteland. 2016 , 1, | 26 |
| 1385 | Early colonization of functional groups of microbes in the infant gut. 2016 , 18, 2246-58 | 47 |
| 1384 | The human gut microbiome in health: establishment and resilience of microbiota over a lifetime. 2016 , 18, 2103-16 | 117 |
| 1383 | Microbiota at the crossroads of autoimmunity. 2016 , 15, 859-69 | 82 |
| 1382 | Emerging roles for antigen presentation in establishing host-microbiome symbiosis. 2016 , 272, 139-50 | 12 |
| 1381 | Microbiome-wide association studies link dynamic microbial consortia to disease. 2016 , 535, 94-103 | 443 |
| 1380 | The microbiome in early life: implications for health outcomes. 2016 , 22, 713-22 | 548 |
| 1379 | The Human Microbiome and Public Health: Social and Ethical Considerations. 2016 , 106, 414-20 | 26 |

| | | |
|------|--|-----|
| 1378 | Temporal Development of Gut Microbiota in Triclocarban Exposed Pregnant and Neonatal Rats. 2016 , 6, 33430 | 18 |
| 1377 | Metagenomic evidence for taxonomic dysbiosis and functional imbalance in the gastrointestinal tracts of children with cystic fibrosis. 2016 , 6, 22493 | 56 |
| 1376 | The Gastrointestinal Microbiome. 2016 , 126-137 | 0 |
| 1375 | The Gut Microbiome. 2016 , 799-808 | 1 |
| 1374 | Comparison of the bacterial communities in feces from wild versus housed sables (<i>Martes zibellina</i>) by high-throughput sequence analysis of the bacterial 16S rRNA gene. 2016 , 6, 98 | 12 |
| 1373 | Longitudinal Prediction of the Infant Gut Microbiome with Dynamic Bayesian Networks. 2016 , 6, 20359 | 36 |
| 1372 | Effect of short-term room temperature storage on the microbial community in infant fecal samples. 2016 , 6, 26648 | 28 |
| 1371 | The Microbiome and the Liver: The Basics. 2016 , 36, 299-305 | 10 |
| 1370 | The Microbiome and Primary Sclerosing Cholangitis. 2016 , 36, 340-348 | 12 |
| 1369 | The Microbiome: What Will the Future Hold?. 2016 , 36, 354-359 | 2 |
| 1368 | Microbes, Metabolites and Health. 2016 , 13-48 | |
| 1367 | Deep sequencing of the 16S ribosomal RNA of the neonatal oral microbiome: a comparison of breast-fed and formula-fed infants. 2016 , 6, 38309 | 37 |
| 1366 | Human microbiome as therapeutic intervention target to reduce cardiovascular disease risk. 2016 , 27, 615-622 | 25 |
| 1365 | Analysis and Interpretation of the Human Microbiome. 2016 , 22, 1713-22 | 5 |
| 1364 | Skład mikrobiomu jelit we wczesnym okresie życia a występowanie alergii na białka mleka. 2016 , 3, T69-T81 | |
| 1363 | Host genetics is associated with the gut microbial community membership rather than the structure. 2016 , 12, 1676-86 | 8 |
| 1362 | The bovine milk microbiota: insights and perspectives from -omics studies. 2016 , 12, 2359-72 | 111 |
| 1361 | Impact of mode of delivery on the milk microbiota composition of healthy women. 2016 , 7, 54-60 | 95 |

| | | |
|------|---|-----|
| 1360 | Maternal Antibiotic Treatment Impacts Development of the Neonatal Intestinal Microbiome and Antiviral Immunity. 2016 , 196, 3768-79 | 84 |
| 1359 | Evaluation of the effects of intrapartum antibiotic prophylaxis on newborn intestinal microbiota using a sequencing approach targeted to multi hypervariable 16S rDNA regions. 2016 , 100, 5537-46 | 69 |
| 1358 | The intestinal microbiome, barrier function, and immune system in inflammatory bowel disease: a tripartite pathophysiological circuit with implications for new therapeutic directions. 2016 , 9, 606-25 | 104 |
| 1357 | The Intestinal Microbiome and Estrogen Receptor-Positive Female Breast Cancer. 2016 , 108, | 123 |
| 1356 | Vertebrate bacterial gut diversity: size also matters. 2016 , 16, 12 | 34 |
| 1355 | Gut Immunity and Type 1 Diabetes: a Mlange of Microbes, Diet, and Host Interactions?. 2016 , 16, 60 | 12 |
| 1354 | Variation in Microbiome LPS Immunogenicity Contributes to Autoimmunity in Humans. 2016 , 165, 842-53 | 584 |
| 1353 | How colonization by microbiota in early life shapes the immune system. 2016 , 352, 539-44 | 859 |
| 1352 | The Microbiome, Timing, and Barrier Function in the Context of Allergic Disease. 2016 , 44, 728-38 | 95 |
| 1351 | Impact of early gut microbiota on immune and metabolic development and function. 2016 , 21, 380-387 | 65 |
| 1350 | Adipositas, Typ-2-Diabetes und das Mikrobiom, unser zweites Genom. 2016 , 11, 102-112 | 1 |
| 1349 | Microbes Drive Evolution of Animals and Plants: the Hologenome Concept. 2016 , 7, e01395 | 233 |
| 1348 | Early-life gut microbiome composition and milk allergy resolution. 2016 , 138, 1122-1130 | 197 |
| 1347 | Autoimmunity and the microbiome: T-cell receptor mimicry of "self" and microbial antigens mediates self tolerance in holobionts: The concepts of "holoimmunity" (TcR-mediated tolerance for the holobiont) and "holoautoimmunity" (loss of tolerance for the holobiont) are introduced. 2016 , 38, 1068-1083 | 11 |
| 1346 | Probiotics for the Prevention of Pediatric Antibiotic-Associated Diarrhea. 2016 , 12, 463-466 | 34 |
| 1345 | Balancing Tolerance or Allergy to Food Proteins. 2016 , 37, 659-667 | 12 |
| 1344 | Impact of maternal nutrition in pregnancy and lactation on offspring gut microbial composition and function. 2016 , 7, 459-470 | 100 |
| 1343 | Engineering Human Microbiota: Influencing Cellular and Community Dynamics for Therapeutic Applications. 2016 , 324, 67-124 | 9 |

| | | |
|------|---|-----|
| 1342 | Composition and immunological significance of the upper respiratory tract microbiota. 2016 , 590, 3705-3720 | 48 |
| 1341 | Gut microbiota and central nervous system development. 2016 , 73, 536-546 | 49 |
| 1340 | Interplays Between Gut Microbiota and Gene Expression Regulation by miRNAs: Towards a Symbiotic Vision of Host and Guest. 2016 , 53-65 | 1 |
| 1339 | Modulation of type 1 and type 2 diabetes risk by the intestinal microbiome. 2016 , 17, 469-477 | 43 |
| 1338 | Niche-Specific Impact of a Symbiotic Function on the Persistence of Microbial Symbionts within a Natural Host. 2016 , 82, 5990-6 | 9 |
| 1337 | Lessons from Digestive-Tract Symbioses Between Bacteria and Invertebrates. 2016 , 70, 375-93 | 19 |
| 1336 | Diet and dysbiosis. 2016 , 443-465 | |
| 1335 | The gut microbiota. 2016 , 55-66 | 0 |
| 1334 | High frequencies of antibiotic resistance genes in infants' meconium and early fecal samples. 2016 , 7, 35-44 | 42 |
| 1333 | How stable is the human gut microbiota? And why this question matters. 2016 , 18, 2779-83 | 15 |
| 1332 | The gut microbiota and metabolic disease: current understanding and future perspectives. 2016 , 280, 339-49 | 150 |
| 1331 | The microbiome-systemic diseases connection. 2016 , 22, 719-734 | 70 |
| 1330 | Incorporating the gut microbiota into models of human and non-human primate ecology and evolution. 2016 , 159, S196-215 | 77 |
| 1329 | Antibiotic perturbation of the preterm infant gut microbiome and resistome. 2016 , 7, 443-9 | 59 |
| 1328 | The early infant gut microbiome varies in association with a maternal high-fat diet. 2016 , 8, 77 | 199 |
| 1327 | The gut microbiota: A treasure for human health. 2016 , 34, 1210-1224 | 108 |
| 1326 | Insights into human evolution from ancient and contemporary microbiome studies. 2016 , 41, 14-26 | 39 |
| 1325 | Advances in Gut Microbiome Research and Relevance to Pediatric Diseases. 2016 , 178, 16-23 | 10 |

| | | |
|------|---|-----|
| 1324 | Intestinales Mikrobiom. 2016 , 41, 207-217 | 1 |
| 1323 | Linking microbiota and respiratory disease. 2016 , 590, 3721-3738 | 42 |
| 1322 | Micronutrient Adequacy and Dietary Diversity Exert Positive and Distinct Effects on Linear Growth in Urban Zambian Infants. 2016 , 146, 2093-2101 | 17 |
| 1321 | Progress in Our Understanding of the Gut Microbiome: Implications for the Clinician. 2016 , 18, 49 | 8 |
| 1320 | Interactions between host genetics and gut microbiome in diabetes and metabolic syndrome. 2016 , 5, 795-803 | 88 |
| 1319 | JDRF's vision and strategy for prevention of type 1 diabetes. 2016 , 17 Suppl 22, 87-92 | 7 |
| 1318 | Early Life Antibiotic Exposure and Weight Development in Children. 2016 , 176, 105-113.e2 | 51 |
| 1317 | Gut microbiota-host interactions and juvenile idiopathic arthritis. 2016 , 14, 44 | 30 |
| 1316 | Microbiome. 2016 , 14-18 | |
| 1315 | A comparison of intestinal microbiota in a population of low-risk infants exposed and not exposed to intrapartum antibiotics: The Baby & Microbiota of the Intestine cohort study protocol. 2016 , 16, 183 | 15 |
| 1314 | Natural history of the infant gut microbiome and impact of antibiotic treatment on bacterial strain diversity and stability. 2016 , 8, 343ra81 | 514 |
| 1313 | Disrupted progression of the intestinal microbiota with age in children with cystic fibrosis. 2016 , 6, 24857 | 50 |
| 1312 | Microbial interactions lead to rapid micro-scale successions on model marine particles. 2016 , 7, 11965 | 183 |
| 1311 | Parental Obesity: Intergenerational Programming and Consequences. 2016 , | 2 |
| 1310 | Birth mode-dependent association between pre-pregnancy maternal weight status and the neonatal intestinal microbiome. 2016 , 6, 23133 | 87 |
| 1309 | A key genetic factor for fucosyllactose utilization affects infant gut microbiota development. 2016 , 7, 11939 | 197 |
| 1308 | An integrated metagenomics pipeline for strain profiling reveals novel patterns of bacterial transmission and biogeography. 2016 , 26, 1612-1625 | 269 |
| 1307 | Tiny microbes, enormous impacts: what matters in gut microbiome studies?. 2016 , 17, 217 | 86 |

| | | |
|------|--|-----|
| 1306 | Surveys, simulation and single-cell assays relate function and phylogeny in a lake ecosystem. 2016 , 1, 16130 | 24 |
| 1305 | The Central Nervous System and the Gut Microbiome. 2016 , 167, 915-932 | 630 |
| 1304 | Intestinal microbiome changes and stem cell transplantation: Lessons learned. 2016 , 7, 930-938 | 10 |
| 1303 | Human gut microbiota and healthy aging: Recent developments and future prospective. 2016 , 4, 3-16 | 97 |
| 1302 | Distributed Heredity and Development: a Heterarchical Perspective. 2016 , 9, 331-343 | 3 |
| 1301 | Role of the Intestinal Microbiota in Host Responses to Stressor Exposure. 2016 , 131, 1-19 | 11 |
| 1300 | Determination of Bifidobacterium and Lactobacillus in breast milk of healthy women by digital PCR. 2016 , 7, 559-69 | 12 |
| 1299 | Host age, social group, and habitat type influence the gut microbiota of wild ring-tailed lemurs (<i>Lemur catta</i>). 2016 , 78, 883-92 | 65 |
| 1298 | Response of bacterial colonization in <i>Nematostella vectensis</i> to development, environment and biogeography. 2016 , 18, 1764-81 | 47 |
| 1297 | The Gut Microbiome and Obesity. 2016 , 18, 45 | 137 |
| 1296 | Structural and functional changes within the gut microbiota and susceptibility to <i>Clostridium difficile</i> infection. 2016 , 41, 37-43 | 39 |
| 1295 | The pediatric intestinal mucosal microbiome remains altered after clinical resolution of inflammatory and ischemic disease. 2016 , 160, 350-8 | 6 |
| 1294 | Potential applications of metagenomics to assess the biological effects of food structure and function. 2016 , 7, 4160-4169 | 5 |
| 1293 | The Bacterial Microbiome and Virome Milestones of Infant Development. 2016 , 24, 801-810 | 76 |
| 1292 | Microglia development follows a stepwise program to regulate brain homeostasis. 2016 , 353, aad8670 | 618 |
| 1291 | [The inner life of <i>Lactobacillus</i>]. 2016 , 12, 190-2 | |
| 1290 | The microbiota in pediatric rheumatic disease: epiphenomenon or therapeutic target?. 2016 , 28, 537-43 | 11 |
| 1289 | Crossover Control Study of the Effect of Personal Care Products Containing Triclosan on the Microbiome. 2016 , 1, | 40 |

| | | |
|------|---|-----|
| 1288 | Fostering of advanced mutualism with gut microbiota by Immunoglobulin A. 2016 , 270, 20-31 | 57 |
| 1287 | Maternal group B Streptococcus and the infant gut microbiota. 2016 , 7, 45-53 | 27 |
| 1286 | Early Gut Colonization of Preterm Infants: Effect of Enteral Feeding Tubes. 2016 , 62, 893-900 | 18 |
| 1285 | Exopolysaccharides Produced by Lactic Acid Bacteria and Bifidobacteria as Fermentable Substrates by the Intestinal Microbiota. 2016 , 56, 1440-53 | 97 |
| 1284 | Glycomics: revealing the dynamic ecology and evolution of sugar molecules. 2016 , 135, 90-100 | 26 |
| 1283 | Assembly of the <i>Caenorhabditis elegans</i> gut microbiota from diverse soil microbial environments. 2016 , 10, 1998-2009 | 182 |
| 1282 | Can We Prevent Obesity-Related Metabolic Diseases by Dietary Modulation of the Gut Microbiota?. 2016 , 7, 90-101 | 76 |
| 1281 | Human milk microbiota profiles in relation to birthing method, gestation and infant gender. 2016 , 4, 1 | 175 |
| 1280 | Building a Beneficial Microbiome from Birth. 2016 , 7, 323-30 | 50 |
| 1279 | Altered gut microbiota profile in common variable immunodeficiency associates with levels of lipopolysaccharide and markers of systemic immune activation. 2016 , 9, 1455-1465 | 81 |
| 1278 | Microbiota and lifestyle interactions through the lifespan. 2016 , 57, 265-272 | 16 |
| 1277 | Age, introduction of solid feed and weaning are more important determinants of gut bacterial succession in piglets than breed and nursing mother as revealed by a reciprocal cross-fostering model. 2016 , 18, 1566-77 | 109 |
| 1276 | Host-microbiome interactions in acute and chronic respiratory infections. 2016 , 18, 652-62 | 29 |
| 1275 | Characterisation and therapeutic manipulation of the gut microbiome in inflammatory bowel disease. 2016 , 46, 266-73 | 18 |
| 1274 | Infant Gut Microbiota Development Is Driven by Transition to Family Foods Independent of Maternal Obesity. 2016 , 1, | 118 |
| 1273 | Protective and pro-inflammatory roles of intestinal bacteria. 2016 , 23, 67-80 | 51 |
| 1272 | Soil memory as a potential mechanism for encouraging sustainable plant health and productivity. 2016 , 38, 137-42 | 42 |
| 1271 | Experimental and computational optimization of an <i>Escherichia coli</i> co-culture for the efficient production of flavonoids. 2016 , 35, 55-63 | 158 |

| | | |
|------|--|-----|
| 1270 | Gut microbiota and the pathogenesis of necrotizing enterocolitis in preterm neonates. 2016 , 11, 273-92 | 33 |
| 1269 | Microbiota, immunity and the liver. 2016 , 171, 36-49 | 14 |
| 1268 | Microbial transmission from mothers with obesity or diabetes to infants: an innovative opportunity to interrupt a vicious cycle. 2016 , 59, 895-906 | 49 |
| 1267 | Mucin-Microbiota Interaction During Postnatal Maturation of the Intestinal Ecosystem: Clinical Implications. 2016 , 61, 1473-86 | 25 |
| 1266 | Immune recognition and response to the intestinal microbiome in type 1 diabetes. 2016 , 71, 10-8 | 43 |
| 1265 | Diet and Microbiome in Inflammatory Bowel Diseases. 2016 , 3-16 | 0 |
| 1264 | [Intestinal microbiota and ageing: A new intervention route?]. 2016 , 51, 290-5 | 3 |
| 1263 | Characterization of the gut microbiome in epidemiologic studies: the multiethnic cohort experience. 2016 , 26, 373-9 | 32 |
| 1262 | Crosstalk between microbiota, pathogens and the innate immune responses. 2016 , 306, 257-265 | 27 |
| 1261 | Probiotics in early life: a preventative and treatment approach. 2016 , 7, 1752-68 | 29 |
| 1260 | Ecological robustness of the gut microbiota in response to ingestion of transient food-borne microbes. 2016 , 10, 2235-45 | 125 |
| 1259 | Brain-gut-microbiota axis: challenges for translation in psychiatry. 2016 , 26, 366-72 | 120 |
| 1258 | Association between the gut microbiota and diet: Fetal life, early childhood, and further life. 2016 , 32, 620-7 | 88 |
| 1257 | Tools for the Microbiome: Nano and Beyond. 2016 , 10, 6-37 | 99 |
| 1256 | Beneficial Microbes: The pharmacy in the gut. 2016 , 7, 11-20 | 51 |
| 1255 | Contribution of neutral processes to the assembly of gut microbial communities in the zebrafish over host development. 2016 , 10, 655-64 | 348 |
| 1254 | Role of the Gut Microbiota of Children in Diarrhea Due to the Protozoan Parasite <i>Entamoeba histolytica</i> . 2016 , 213, 1579-85 | 75 |
| 1253 | Gut microbiome in health and disease: Linking the microbiome-gut-brain axis and environmental factors in the pathogenesis of systemic and neurodegenerative diseases. 2016 , 158, 52-62 | 265 |

| | | |
|------|---|-----|
| 1252 | Genomics of the Genus Bifidobacterium Reveals Species-Specific Adaptation to the Glycan-Rich Gut Environment. 2016 , 82, 980-991 | 121 |
| 1251 | Small Intestinal Bacterial Overgrowth. 2016 , 487-494 | |
| 1250 | Synbiotics and Infantile Acute Gastroenteritis. 2016 , 487-500 | |
| 1249 | Potential Benefits of Probiotics, Prebiotics, and Synbiotics on the Intestinal Microbiota of the Elderly. 2016 , 525-538 | 2 |
| 1248 | Discordant temporal development of bacterial phyla and the emergence of core in the fecal microbiota of young children. 2016 , 10, 1002-14 | 85 |
| 1247 | Introduction: Gastrointestinal System and Colorectal Cancer. 2016 , 1-14 | |
| 1246 | The composition of the zebrafish intestinal microbial community varies across development. 2016 , 10, 644-54 | 317 |
| 1245 | Gut microbiota and obesity. 2016 , 73, 147-62 | 255 |
| 1244 | Energetic stress: The reciprocal relationship between energy availability and the stress response. 2016 , 166, 43-55 | 22 |
| 1243 | The Microbiome: The Trillions of Microorganisms That Maintain Health and Cause Disease in Humans and Companion Animals. 2016 , 53, 10-21 | 53 |
| 1242 | Microbes, Immunity, and Behavior: Psychoneuroimmunology Meets the Microbiome. 2017 , 42, 178-192 | 119 |
| 1241 | Maternal exposure to a Western-style diet causes differences in intestinal microbiota composition and gene expression of suckling mouse pups. 2017 , 61, 1600141 | 26 |
| 1240 | Gut microbiota disturbance during helminth infection: can it affect cognition and behaviour of children?. 2017 , 17, 58 | 25 |
| 1239 | Constructing Predictive Microbial Signatures at Multiple Taxonomic Levels. 2017 , 112, 1022-1031 | 15 |
| 1238 | Evolution of gut microbiota composition from birth to 24 weeks in the INFANTMET Cohort. 2017 , 5, 4 | 266 |
| 1237 | Maturation of the infant microbiome community structure and function across multiple body sites and in relation to mode of delivery. 2017 , 23, 314-326 | 502 |
| 1236 | Gastrointestinal Organoids: Understanding the Molecular Basis of the Host-Microbe Interface. 2017 , 3, 138-149 | 51 |
| 1235 | Basic Definitions and Concepts: Organization of the Gut Microbiome. 2017 , 46, 1-8 | 12 |

| | | |
|------|--|-----|
| 1234 | The Influence of the Microbiome on Type 1 Diabetes. 2017 , 198, 590-595 | 77 |
| 1233 | Microbial community dynamics in Inferno Crater Lake, a thermally fluctuating geothermal spring. 2017 , 11, 1158-1167 | 30 |
| 1232 | The role of early life nutrition in the establishment of gastrointestinal microbial composition and function. 2017 , 8, 143-171 | 88 |
| 1231 | Studying Vertical Microbiome Transmission from Mothers to Infants by Strain-Level Metagenomic Profiling. 2017 , 2, | 207 |
| 1230 | Early life antibiotic exposure affects pancreatic islet development and metabolic regulation. 2017 , 7, 41778 | 20 |
| 1229 | Comparative genomics of <i>Mortierella elongata</i> and its bacterial endosymbiont <i>Mycoavidus cysteinexigens</i> . 2017 , 19, 2964-2983 | 98 |
| 1228 | Divergent functional isoforms drive niche specialisation for nutrient acquisition and use in rumen microbiome. 2017 , 11, 932-944 | 31 |
| 1227 | Human intestinal microbiota: Role in development and functioning of the nervous system. 2017 , 86, 1-18 | 26 |
| 1226 | The Fecal Microbial Community of Breast-fed Infants from Armenia and Georgia. 2017 , 7, 40932 | 16 |
| 1225 | Diet affects arctic ground squirrel gut microbial metatranscriptome independent of community structure. 2017 , 19, 1518-1535 | 12 |
| 1224 | Dysbiosis and the immune system. 2017 , 17, 219-232 | 642 |
| 1223 | The shape of the microbiome in early life. 2017 , 23, 274-275 | 11 |
| 1222 | WITHDRAWN: Updating on gut microbiota and its relationship with the occurrence of necrotizing enterocolitis (Review). 2017 , 4, 1-6 | |
| 1221 | The importance of appropriate initial bacterial colonization of the intestine in newborn, child, and adult health. 2017 , 82, 387-395 | 83 |
| 1220 | Embracing the co-operative society to better understand assembly of the gut microbiota. 2017 , 19, 2924-2925 | 5 |
| 1219 | Intestinal Microbiology and Ecology in Crohn's Disease and Ulcerative Colitis. 2017 , 67-74 | 1 |
| 1218 | Changes in the Gut Microbiota After Early Administration of Oral Synbiotics to Young Infants in India. 2017 , 65, 218-224 | 9 |
| 1217 | Conditional postnatal deletion of the neonatal murine hepatic circadian gene, <i>Npas2</i> , alters the gut microbiome following restricted feeding. 2017 , 217, 218.e1-218.e15 | 8 |

| | | |
|------|--|------|
| 1216 | Bayesian Nonparametric Ordination for the Analysis of Microbial Communities. 2017 , 112, 1430-1442 | 22 |
| 1215 | Association Between Breast Milk Bacterial Communities and Establishment and Development of the Infant Gut Microbiome. 2017 , 171, 647-654 | 466 |
| 1214 | Inhibition of corticotropin-releasing hormone receptor 1 and activation of receptor 2 protect against colonic injury and promote epithelium repair. 2017 , 7, 46616 | 30 |
| 1213 | Teleosts as Model Organisms To Understand Host-Microbe Interactions. 2017 , 199, | 32 |
| 1212 | The Threat of Antimicrobial Resistance on the Human Microbiome. 2017 , 74, 1001-1008 | 49 |
| 1211 | MΦage Φtrois in the human gut: interactions between host, bacteria and phages. 2017 , 15, 397-408 | 184 |
| 1210 | Forgotten fungi-the gut mycobiome in human health and disease. 2017 , 41, 479-511 | 140 |
| 1209 | An insider's perspective: Bacteroides as a window into the microbiome. 2017 , 2, 17026 | 209 |
| 1208 | The prenatal gut microbiome: are we colonized with bacteria in utero?. 2017 , 12 Suppl 1, 3-17 | 144 |
| 1207 | The Microbiome in Neurogastroenterology. 2017 , 53-70 | |
| 1206 | Defining the Core Microbiome in Corals' Microbial Soup. 2017 , 25, 125-140 | 157 |
| 1205 | The resilience of the intestinal microbiota influences health and disease. 2017 , 15, 630-638 | 398 |
| 1204 | Introduction to the human gut microbiota. 2017 , 474, 1823-1836 | 1049 |
| 1203 | Optimizing methods and dodging pitfalls in microbiome research. 2017 , 5, 52 | 273 |
| 1202 | Dysregulation of gut microbiota and chronic inflammatory disease: from epithelial defense to host immunity. 2017 , 49, e337 | 6 |
| 1201 | The Human Gut Microbiome in Liver Diseases. 2017 , 37, 128-140 | 22 |
| 1200 | Divergent taxonomic and functional responses of microbial communities to field simulation of aeolian soil erosion and deposition. 2017 , 26, 4186-4196 | 9 |
| 1199 | Transmission of the gut microbiota: spreading of health. 2017 , 15, 531-543 | 99 |

| | | |
|------|---|-----|
| 1198 | Correlation between early-life regulation of the immune system by microbiota and allergy development. 2017 , 139, 1084-1091 | 66 |
| 1197 | The Microbiome and Human Biology. 2017 , 18, 65-86 | 181 |
| 1196 | Integration of microbiome and epigenome to decipher the pathogenesis of autoimmune diseases. 2017 , 83, 31-42 | 78 |
| 1195 | The Association Between Temperament and Microbiota in Healthy Individuals: A Pilot Study. 2017 , 79, 898-904 | 4 |
| 1194 | Infant nutrition and the microbiome. 2017 , 220-257 | 1 |
| 1193 | Lactulose Breath Test Gas Production in Childhood IBS Is Associated With Intestinal Transit and Bowel Movement Frequency. 2017 , 64, 541-545 | 7 |
| 1192 | Health and Disease Imprinted in the Time Variability of the Human Microbiome. 2017 , 2, | 30 |
| 1191 | Gut microbiota in chronic kidney disease. 2017 , 37, 9-19 | 36 |
| 1190 | Mechanisms of cross-talk between the diet, the intestinal microbiome, and the undernourished host. 2017 , 8, 98-112 | 30 |
| 1189 | Oral drug absorption in pediatrics: the intestinal wall, its developmental changes and current tools for predictions. 2017 , 38, 209-230 | 45 |
| 1188 | Temporal dynamics of microbial communities in microcosms in response to pollutants. 2017 , 26, 923-936 | 40 |
| 1187 | Archaea: Essential inhabitants of the human digestive microbiota. 2017 , 3, 1-8 | 59 |
| 1186 | Enteroendocrine Cells: Metabolic Relays between Microbes and Their Host. 2017 , 32, 139-164 | 21 |
| 1185 | Cereal products derived from wheat, sorghum, rice and oats alter the infant gut microbiota in vitro. 2017 , 7, 14312 | 24 |
| 1184 | Correcting for Microbial Blooms in Fecal Samples during Room-Temperature Shipping. 2017 , 2, | 44 |
| 1183 | A preliminary study of gut dysbiosis in children with food allergy. 2017 , 81, 2396-2399 | 17 |
| 1182 | Identification of microbiota dynamics using robust parameter estimation methods. 2017 , 294, 71-84 | 8 |
| 1181 | The microbiome beyond the horizon of ecological and evolutionary theory. 2017 , 1, 1606-1615 | 138 |

| | | |
|------|--|-----|
| 1180 | Gut microbiome alterations in Alzheimer's disease. 2017 , 7, 13537 | 712 |
| 1179 | Health and environmental applications of gut microbiome: a review. 2017 , 24, 467-482 | 4 |
| 1178 | Methanobrevibacter smithii, a methanogen consistently colonising the newborn stomach. 2017 , 36, 2449-2455 | 34 |
| 1177 | The Effects of an Environmentally Relevant Level of Arsenic on the Gut Microbiome and Its Functional Metagenome. 2017 , 160, 193-204 | 57 |
| 1176 | A bacteriophages journey through the human body. 2017 , 279, 106-122 | 108 |
| 1175 | Timing the Microbes: The Circadian Rhythm of the Gut Microbiome. 2017 , 32, 505-515 | 64 |
| 1174 | Do bacteria shape our development? Crosstalk between intestinal microbiota and HPA axis. 2017 , 83, 458-471 | 85 |
| 1173 | Dynamic oropharyngeal and faecal microbiota during treatment in infants hospitalized for bronchiolitis compared with age-matched healthy subjects. 2017 , 7, 11266 | 4 |
| 1172 | Intestinal colonisation patterns in breastfed and formula-fed infants during the first 12 weeks of life reveal sequential microbiota signatures. 2017 , 7, 8327 | 74 |
| 1171 | Evolution of gut Bifidobacterium population in healthy Japanese infants over the first three years of life: a quantitative assessment. 2017 , 7, 10097 | 44 |
| 1170 | Randomized controlled trial on the impact of early-life intervention with bifidobacteria on the healthy infant fecal microbiota and metabolome. 2017 , 106, 1274-1286 | 66 |
| 1169 | Opportunities and Challenges for Environmental Exposure Assessment in Population-Based Studies. 2017 , 26, 1370-1380 | 17 |
| 1168 | The effect of fiber and prebiotics on children's gastrointestinal disorders and microbiome. 2017 , 11, 1031-1045 | 30 |
| 1167 | Patterns of seasonality and group membership characterize the gut microbiota in a longitudinal study of wild Verreaux's sifakas (). 2017 , 7, 5732-5745 | 52 |
| 1166 | Updating on gut microbiota and its relationship with the occurrence of necrotizing enterocolitis. 2017 , 4, 14-19 | 13 |
| 1165 | Vertically and horizontally transmitted microbial symbionts shape the gut microbiota ontogenesis of a skin-mucus feeding discus fish progeny. 2017 , 7, 5263 | 35 |
| 1164 | [The human gut microbiota: Interactions with the host and dysfunctions]. 2017 , 34, 1085-1090 | 5 |
| 1163 | Impact of Childhood Malnutrition on Host Defense and Infection. 2017 , 30, 919-971 | 114 |

| | | |
|------|---|-----|
| 1162 | Erratum: Publisher's note. 2017 , 8, 457-470 | 2 |
| 1161 | Microbiota and Aging. A Review and Commentary. 2017 , 48, 681-689 | 51 |
| 1160 | Our Gut Microbiome: The Evolving Inner Self. 2017 , 171, 1481-1493 | 294 |
| 1159 | Microbial antigen encounter during a preweaning interval is critical for tolerance to gut bacteria. 2017 , 2, | 88 |
| 1158 | Intrapartum antibiotics for GBS prophylaxis alter colonization patterns in the early infant gut microbiome of low risk infants. 2017 , 7, 16527 | 67 |
| 1157 | Does Modification of the Large Intestinal Microbiome Contribute to the Anti-Inflammatory Activity of Fermentable Fiber?. 2018 , 2, nzx004 | 4 |
| 1156 | Development of Microbiota in Infants and its Role in Maturation of Gut Mucosa and Immune System. 2017 , 48, 666-680 | 36 |
| 1155 | Gut Microbiome and Antibiotics. 2017 , 48, 727-734 | 88 |
| 1154 | Host-genotype dependent gut microbiota drives zooplankton tolerance to toxic cyanobacteria. 2017 , 8, 1608 | 65 |
| 1153 | The First Microbial Colonizers of the Human Gut: Composition, Activities, and Health Implications of the Infant Gut Microbiota. 2017 , 81, | 626 |
| 1152 | Linking the development and functioning of a carnivorous pitcher plant's microbial digestive community. 2017 , 11, 2439-2451 | 12 |
| 1151 | A review on early gut maturation and colonization in pigs, including biological and dietary factors affecting gut homeostasis. 2017 , 233, 89-103 | 35 |
| 1150 | Hypothesis Testing and Statistical Analysis of Microbiome. 2017 , 4, 138-148 | 86 |
| 1149 | Metaproteomics reveals functional differences in intestinal microbiota development of preterm infants. 2017 , 16, 1610-1620 | 25 |
| 1148 | Immune-modulating effects in mouse dendritic cells of lactobacilli and bifidobacteria isolated from individuals following omnivorous, vegetarian and vegan diets. 2017 , 97, 141-148 | 11 |
| 1147 | The microbiome and transfusion in cancer patients. 2017 , 56, 330-335 | 6 |
| 1146 | Infant fungal communities: current knowledge and research opportunities. 2017 , 15, 30 | 42 |
| 1145 | The Microbiome in Visceral Medicine: Inflammatory Bowel Disease, Obesity and Beyond. 2017 , 33, 153-162 | 5 |

| | | |
|------|---|-----|
| 1144 | An Inducible Operon Is Involved in Inulin Utilization in <i>Lactobacillus plantarum</i> Strains, as Revealed by Comparative Proteogenomics and Metabolic Profiling. 2017 , 83, | 28 |
| 1143 | Effective degradation of aflatoxin B using a novel thermophilic microbial consortium TADC7. 2017 , 224, 166-173 | 20 |
| 1142 | Childhood body mass is positively associated with cesarean birth in Yucatec Maya subsistence farmers. 2017 , 29, e22920 | 9 |
| 1141 | Probiotics During the Perinatal Period: Impact on the Health of Mothers and Infants. 2017 , 429-459 | 2 |
| 1140 | Oral application of <i>Escherichia coli</i> bacteriophage: safety tests in healthy and diarrheal children from Bangladesh. 2017 , 19, 237-250 | 58 |
| 1139 | An introduction to microbiome analysis for human biology applications. 2017 , 29, e22931 | 16 |
| 1138 | Roles for Intestinal Bacteria, Viruses, and Fungi in Pathogenesis of Inflammatory Bowel Diseases and Therapeutic Approaches. 2017 , 152, 327-339.e4 | 407 |
| 1137 | Siderophore-mediated iron acquisition and modulation of host-bacterial interactions. 2017 , 105, 68-78 | 66 |
| 1136 | Feeding the microbiota-gut-brain axis: diet, microbiome, and neuropsychiatry. 2017 , 179, 223-244 | 243 |
| 1135 | Developmental origins of NAFLD: a womb with a clue. 2017 , 14, 81-96 | 104 |
| 1134 | High-resolution characterization of the human microbiome. 2017 , 179, 7-23 | 36 |
| 1133 | Mechanisms of inflammation-driven bacterial dysbiosis in the gut. 2017 , 10, 18-26 | 290 |
| 1132 | Gut microbiota in chronic kidney disease. 2017 , 37, 9-19 | 51 |
| 1131 | <i>Enterococcus faecalis</i> readily colonizes the entire gastrointestinal tract and forms biofilms in a germ-free mouse model. 2017 , 8, 282-296 | 33 |
| 1130 | Mining bifidobacteria from the neonatal gastrointestinal tract for conjugated linolenic acid production. 2017 , 8, 232-238 | 13 |
| 1129 | Parasites, microbiota and metabolic disease. 2017 , 39, e12390 | 9 |
| 1128 | The human gastrointestinal tract and oral microbiota in inflammatory bowel disease: a state of the science review. 2017 , 125, 3-10 | 63 |
| 1127 | It's the song, not the singer: an exploration of holobiosis and evolutionary theory. 2017 , 32, 5-24 | 100 |

| | | |
|------|---|-----|
| 1126 | The infant gut bacterial microbiota and risk of pediatric asthma and allergic diseases. 2017 , 179, 60-70 | 74 |
| 1125 | Life history and eco-evolutionary dynamics in light of the gut microbiota. 2017 , 126, 508-531 | 81 |
| 1124 | Host Defense Mechanisms Against Viruses. 2017 , 1175-1197.e7 | 2 |
| 1123 | The Gut Microbiome and Its Marriage to the Immune System: Can We Change It All?. 2017 , 191-208 | |
| 1122 | Perinatal microbial exposure may influence aortic intima-media thickness in early infancy. 2017 , 46, 209-218 | 12 |
| 1121 | Darmmikrobiom des Menschen: Status quo und Perspektiven. 2017 , 12, 335-349 | |
| 1120 | Complementary and Alternative Medicine Strategies for Therapeutic Gut Microbiota Modulation in Inflammatory Bowel Disease and their Next-Generation Approaches. 2017 , 46, 689-729 | 18 |
| 1119 | Gut Colonization Is Accelerated by Presence of Older Siblings. 2017 , 2, | 18 |
| 1118 | Diet and microbiota in inflammatory bowel disease: The gut in disharmony. 2017 , 23, 2124-2140 | 82 |
| 1117 | 18. MicrObesity in pregnancy: the inside story. 2017 , | |
| 1116 | Leveraging Bioactives to Support Human Health through the Lifecycle: Scientific Evidence and Regulatory Considerations. 2017 , | 1 |
| 1115 | Significance of Microbiota in Obesity and Metabolic Diseases and the Modulatory Potential by Medicinal Plant and Food Ingredients. 2017 , 8, 387 | 64 |
| 1114 | Aging and sarcopenia associate with specific interactions between gut microbes, serum biomarkers and host physiology in rats. 2017 , 9, 1698-1720 | 39 |
| 1113 | Chapter 2 Development of the neonatal microbiota. 2017 , 39-56 | 2 |
| 1112 | Pharmabiotics as an Emerging Medication for Metabolic Syndrome and Its Related Diseases. 2017 , 22, | 14 |
| 1111 | Iron in Micronutrient Powder Promotes an Unfavorable Gut Microbiota in Kenyan Infants. 2017 , 9, | 39 |
| 1110 | Bridging the Gap between Gut Microbial Dysbiosis and Cardiovascular Diseases. 2017 , 9, | 81 |
| 1109 | The Gut Microbiota and Autism Spectrum Disorders. 2017 , 11, 120 | 212 |

| | | |
|------|--|-----|
| 1108 | Bacteriological and Immunological Profiling of Meconium and Fecal Samples from Preterm Infants: A Two-Year Follow-Up Study. 2017 , 9, | 14 |
| 1107 | The Role of Human Milk Oligosaccharides in Host-Microbial Interactions. 2017 , 185-206 | 0 |
| 1106 | Reducing Viability Bias in Analysis of Gut Microbiota in Preterm Infants at Risk of NEC and Sepsis. 2017 , 7, 237 | 29 |
| 1105 | The Intestinal Eukaryotic and Bacterial Biome of Spotted Hyenas: The Impact of Social Status and Age on Diversity and Composition. 2017 , 7, 262 | 20 |
| 1104 | The Glycolytic Versatility of CECT 7771 and Its Genome Response to Oligo and Polysaccharides. 2017 , 7, 383 | 29 |
| 1103 | The Human Microbiome and the Missing Heritability Problem. 2017 , 8, 80 | 50 |
| 1102 | The Influence of the Microbiome on Early-Life Severe Viral Lower Respiratory Infections and Asthma-Food for Thought?. 2017 , 8, 156 | 30 |
| 1101 | Gastrointestinal Microbiome Dysbiosis in Infant Mice Alters Peripheral CD8 T Cell Receptor Signaling. 2017 , 8, 265 | 20 |
| 1100 | Patterns of Early-Life Gut Microbial Colonization during Human Immune Development: An Ecological Perspective. 2017 , 8, 788 | 90 |
| 1099 | Postnatal Innate Immune Development: From Birth to Adulthood. 2017 , 8, 957 | 65 |
| 1098 | Codevelopment of Microbiota and Innate Immunity and the Risk for Group B Streptococcal Disease. 2017 , 8, 1497 | 20 |
| 1097 | First Foods and Gut Microbes. 2017 , 8, 356 | 93 |
| 1096 | Gut Microbiota Modulation and Its Relationship with Obesity Using Prebiotic Fibers and Probiotics: A Review. 2017 , 8, 563 | 189 |
| 1095 | Comparative Analysis of the Gut Microbial Communities in Forest and Alpine Musk Deer Using High-Throughput Sequencing. 2017 , 8, 572 | 33 |
| 1094 | Colonization and Succession within the Human Gut Microbiome by Archaea, Bacteria, and Microeukaryotes during the First Year of Life. 2017 , 8, 738 | 135 |
| 1093 | Cesarean or Vaginal Birth Does Not Impact the Longitudinal Development of the Gut Microbiome in a Cohort of Exclusively Preterm Infants. 2017 , 8, 1008 | 36 |
| 1092 | Ontogenesis of the Gut Microbiota Composition in Healthy, Full-Term, Vaginally Born and Breast-Fed Infants over the First 3 Years of Life: A Quantitative Bird's-Eye View. 2017 , 8, 1388 | 52 |
| 1091 | Microbes and Viruses Are Bugging the Gut in Celiac Disease. Are They Friends or Foes?. 2017 , 8, 1392 | 34 |

| | | |
|------|---|-----|
| 1090 | Role of Age-Related Shifts in Rumen Bacteria and Methanogens in Methane Production in Cattle. 2017 , 8, 1563 | 15 |
| 1089 | Diet, Environments, and Gut Microbiota. A Preliminary Investigation in Children Living in Rural and Urban Burkina Faso and Italy. 2017 , 8, 1979 | 121 |
| 1088 | Dietary Prebiotics and Bioactive Milk Fractions Improve NREM Sleep, Enhance REM Sleep Rebound and Attenuate the Stress-Induced Decrease in Diurnal Temperature and Gut Microbial Alpha Diversity. 2016 , 10, 240 | 44 |
| 1087 | Abundance and Diversity of Hydrogenotrophic Microorganisms in the Infant Gut before the Weaning Period Assessed by Denaturing Gradient Gel Electrophoresis and Quantitative PCR. 2017 , 4, 29 | 13 |
| 1086 | Microbial Therapeutics Designed for Infant Health. 2017 , 4, 48 | 12 |
| 1085 | Emerging Statistical Methodologies in the Field of Microbiome Studies. 2017 , 37-52 | |
| 1084 | Proteobacteria: A Common Factor in Human Diseases. 2017 , 2017, 9351507 | 342 |
| 1083 | Does the Gut Microbiota Influence Immunity and Inflammation in Multiple Sclerosis Pathophysiology?. 2017 , 2017, 7904821 | 35 |
| 1082 | Feasibility of Metatranscriptome Analysis from Infant Gut Microbiota: Adaptation to Solid Foods Results in Increased Activity of Firmicutes at Six Months. 2017 , 2017, 9547063 | 6 |
| 1081 | Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium. 2017 , 6, | 97 |
| 1080 | Detection and Molecular Characterization of Human Adenovirus Infections among Hospitalized Children with Acute Diarrhea in Shanghai, China, 2006-2011. 2017 , 2017, 9304830 | 7 |
| 1079 | Human Microbiome and Aging. 2017 , 43-51 | 1 |
| 1078 | Trimethylamine N-oxide (TMAO) as a New Potential Therapeutic Target for Insulin Resistance and Cancer. 2017 , 23, 3699-3712 | 64 |
| 1077 | Microbiome sharing between children, livestock and household surfaces in western Kenya. 2017 , 12, e0171017 | 28 |
| 1076 | Chapter 1 Infant and child microbiota: current status and directions for future research. 2017 , 17-35 | |
| 1075 | Genome-resolved metaproteomic characterization of preterm infant gut microbiota development reveals species-specific metabolic shifts and variabilities during early life. 2017 , 5, 72 | 26 |
| 1074 | The Inuit gut microbiome is dynamic over time and shaped by traditional foods. 2017 , 5, 151 | 32 |
| 1073 | Impact of intrapartum antimicrobial prophylaxis upon the intestinal microbiota and the prevalence of antibiotic resistance genes in vaginally delivered full-term neonates. 2017 , 5, 93 | 110 |

| | | |
|------|---|-----|
| 1072 | An Evolutionary, Biosocial Perspective on Variation in Human Milk Microbes and Oligosaccharides: An Example of Eco-Homeorhesis?. 2017 , 367-399 | 6 |
| 1071 | A comparison of sampling methods for examining the laryngeal microbiome. 2017 , 12, e0174765 | 6 |
| 1070 | Exploring the role of the microbiota member Bifidobacterium in modulating immune-linked diseases. 2017 , 1, 333-349 | 44 |
| 1069 | Consistent changes in the taxonomic structure and functional attributes of bacterial communities during primary succession. 2018 , 12, 1658-1667 | 66 |
| 1068 | The Human Gut Microbiome: From Association to Modulation. 2018 , 172, 1198-1215 | 344 |
| 1067 | The Gastrointestinal Microbiome: A Review. 2018 , 32, 9-25 | 248 |
| 1066 | Does the microbiome and virome contribute to myalgic encephalomyelitis/chronic fatigue syndrome?. 2018 , 132, 523-542 | 25 |
| 1065 | Probiotics and Prebiotics in Animal Health and Food Safety. 2018 , | 7 |
| 1064 | The gastrointestinal tract microbiota of northern white-cheeked gibbons (<i>Nomascus leucogenys</i>) varies with age and captive condition. 2018 , 8, 3214 | 6 |
| 1063 | Bacterial Succession Decreases Network Complexity During Plant Material Decomposition in Mangroves. 2018 , 76, 954-963 | 13 |
| 1062 | Gut microbial functional maturation and succession during human early life. 2018 , 20, 2160-2177 | 21 |
| 1061 | Vive la Persistence: Engineering Human Microbiomes in the 21st Century. 2018 , 3, | 1 |
| 1060 | HIV-exposure, early life feeding practices and delivery mode impacts on faecal bacterial profiles in a South African birth cohort. 2018 , 8, 5078 | 14 |
| 1059 | Fecal microbiome signatures are different in food-allergic children compared to siblings and healthy children. 2018 , 29, 545-554 | 36 |
| 1058 | Effect of daidzein on fermentation parameters and bacterial community of finishing Xianan cattle. 2018 , 17, 950-958 | 5 |
| 1057 | Current understanding of the human microbiome. 2018 , 24, 392-400 | 823 |
| 1056 | Impacts of microbiome metabolites on immune regulation and autoimmunity. 2018 , 154, 230-238 | 108 |
| 1055 | The intestinal protist <i>Blastocystis</i> is not a common member of the healthy infant gut microbiota in a Westernized country (Ireland). 2018 , 145, 1274-1278 | 5 |

| | | |
|------|---|---------|
| 1054 | Perturbations of gut microbiome genes in infants with atopic dermatitis according to feeding type. 2018 , 141, 1310-1319 | 73 |
| 1053 | Spatiotemporally Heterogeneous Population Dynamics of Gut Bacteria Inferred from Fecal Time Series Data. 2018 , 9, | 25 |
| 1052 | Adaptation of commensal proliferating to the intestinal tract of young children with cystic fibrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1605-1610 | 11.5 17 |
| 1051 | Clinical Relevance of Gastrointestinal Microbiota During Pregnancy: A Primer for Nurses. 2018 , 20, 84-102 | 5 |
| 1050 | Adaptive immune education by gut microbiota antigens. 2018 , 154, 28-37 | 109 |
| 1049 | Occupancy strongly influences faecal microbial composition of wild lemurs. 2018 , 94, | 4 |
| 1048 | Overview and systematic review of studies of microbiome in schizophrenia and bipolar disorder. 2018 , 99, 50-61 | 114 |
| 1047 | The impact of human activities and lifestyles on the interlinked microbiota and health of humans and of ecosystems. 2018 , 627, 1018-1038 | 160 |
| 1046 | Understanding the microbiome: Emerging biomarkers for exploiting the microbiota for personalized medicine against cancer. 2018 , 52, 1-8 | 58 |
| 1045 | Prevalence and Source of Fecal and Oral Bacteria on Infant, Child, and Adult Hands. 2018 , 3, | 16 |
| 1044 | Role of priority effects in the early-life assembly of the gut microbiota. 2018 , 15, 197-205 | 153 |
| 1043 | Interactions Between Bifidobacteria, Milk Oligosaccharides, and Neonate Hosts. 2018 , 165-175 | 1 |
| 1042 | Bifidobacteria: Ecology and Coevolution With the Host. 2018 , 213-220 | 3 |
| 1041 | Enzyme Activities at Different Stages of Plant Biomass Decomposition in Three Species of Fungus-Growing Termites. 2018 , 84, | 23 |
| 1040 | Changes in mouse gut bacterial community in response to different types of drinking water. 2018 , 132, 79-89 | 24 |
| 1039 | Impact of dietary induced precocious gut maturation on cecal microbiota and its relation to the blood-brain barrier during the postnatal period in rats. 2018 , 30, e13285 | 13 |
| 1038 | Change in gut microbiota for eczema: Implications for novel therapeutic strategies. 2018 , 46, 281-290 | 4 |
| 1037 | Antibiotic therapy in neonates and impact on gut microbiota and antibiotic resistance development: a systematic review. 2018 , 73, 569-580 | 54 |

| | | |
|------|--|-----|
| 1036 | Glucocorticosteroids and ciclosporin do not significantly impact canine cutaneous microbiota. 2018 , 14, 51 | 8 |
| 1035 | MetaLonDA: a flexible R package for identifying time intervals of differentially abundant features in metagenomic longitudinal studies. 2018 , 6, 32 | 25 |
| 1034 | Gut microbiota trajectory in early life may predict development of celiac disease. 2018 , 6, 36 | 69 |
| 1033 | The hologenome concept of evolution after 10 years. 2018 , 6, 78 | 176 |
| 1032 | Neutral models of short-term microbiome dynamics with host subpopulation structure and migration limitation. 2018 , 6, 80 | 12 |
| 1031 | Core gut microbiota in Jinhua pigs and its correlation with strain, farm and weaning age. 2018 , 56, 346-355 | 25 |
| 1030 | Introduction: The host-associated microbiome: Pattern, process and function. 2018 , 27, 1749-1765 | 25 |
| 1029 | Mass spectrometry approaches to metabolic profiling of microbial communities within the human gastrointestinal tract. 2018 , 149, 13-24 | 13 |
| 1028 | Milk Glycans and Their Interaction with the Infant-Gut Microbiota. 2018 , 9, 429-450 | 64 |
| 1027 | Dietary changes during weaning shape the gut microbiota of red pandas (). 2018 , 6, cox075 | 8 |
| 1026 | Fecal microbiome composition and stability in 4- to 8-year old children is associated with dietary patterns and nutrient intake. 2018 , 56, 165-174 | 33 |
| 1025 | Food additives, contaminants and other minor components: effects on human gut microbiota-a review. 2018 , 74, 69-83 | 89 |
| 1024 | Intestinal Carriage of Third-Generation Cephalosporin-Resistant and Extended-Spectrum β -Lactamase-Producing Enterobacteriaceae in Healthy US Children. 2018 , 7, 234-240 | 20 |
| 1023 | Bifidobacteria and Their Health-Promoting Effects. 2017 , 5, | 126 |
| 1022 | Infant Gut Microbiome Associated With Cognitive Development. 2018 , 83, 148-159 | 207 |
| 1021 | Magnitude and direction of the association between Clostridium difficile infection and proton pump inhibitors in adults and pediatric patients: a systematic review and meta-analysis. 2018 , 53, 84-94 | 34 |
| 1020 | Can the gastrointestinal microbiota be modulated by dietary fibre to treat obesity?. 2018 , 187, 393-402 | 18 |
| 1019 | Intestinal microbiome affects the distinctive flavor of Chinese mitten crabs in commercial farms. 2018 , 483, 38-45 | 21 |

| | | |
|------|--|-----|
| 1018 | Impacts of the Human Gut Microbiome on Therapeutics. 2018 , 58, 253-270 | 51 |
| 1017 | Bifidobacteria and the infant gut: an example of co-evolution and natural selection. 2018 , 75, 103-118 | 81 |
| 1016 | Control of Infection by Defined Microbial Communities. 2017 , 5, | 15 |
| 1015 | Revisiting monosaccharide analysis - quantitation of a comprehensive set of monosaccharides using dynamic multiple reaction monitoring. 2017 , 143, 200-207 | 39 |
| 1014 | A review of metabolic potential of human gut microbiome in human nutrition. 2018 , 200, 203-217 | 107 |
| 1013 | The gut microbiota: An emerging risk factor for cardiovascular and cerebrovascular disease. 2018 , 48, 564-575 | 72 |
| 1012 | Microbial consortia: a critical look at microalgae co-cultures for enhanced biomanufacturing. 2018 , 38, 690-703 | 71 |
| 1011 | Alzheimer's disease and gut microbiota modifications: The long way between preclinical studies and clinical evidence. 2018 , 129, 329-336 | 99 |
| 1010 | Adverse effect of early-life high-fat/high-carbohydrate ("Western") diet on bacterial community in the distal bowel of mice. 2018 , 50, 25-36 | 14 |
| 1009 | Assessing gut microbiota perturbations during the early phase of infectious diarrhea in Vietnamese children. 2018 , 9, 38-54 | 41 |
| 1008 | Impact of nasopharyngeal microbiota on the development of respiratory tract diseases. 2018 , 37, 1-7 | 37 |
| 1007 | Gut-microbiota-on-a-chip: an enabling field for physiological research. 2018 , 2, | 10 |
| 1006 | Microbial structure and function in infant and juvenile rhesus macaques are primarily affected by age, not vaccination status. 2018 , 8, 15867 | 4 |
| 1005 | Strategies for the Preservation, Restoration and Modulation of the Human Milk Microbiota. Implications for Human Milk Banks and Neonatal Intensive Care Units. 2018 , 9, 2676 | 18 |
| 1004 | Demystifying Dysbiosis: Can the Gut Microbiome Promote Oral Tolerance Over IgE-mediated Food Allergy?. 2018 , 14, 156-163 | 12 |
| 1003 | Compositional Dynamics of the Milk Fat Globule and Its Role in Infant Development. 2018 , 6, 313 | 89 |
| 1002 | Gut microbiome composition is associated with spatial structuring and social interactions in semi-feral Welsh Mountain ponies. 2018 , 6, 207 | 43 |
| 1001 | Fecal bacterial microbiota of Canadian commercial mink (<i>Neovison vison</i>): Yearly, life stage, and seasonal comparisons. 2018 , 13, e0207111 | 6 |

| | | |
|------|---|-----|
| 1000 | Dynamic linear models guide design and analysis of microbiota studies within artificial human guts. 2018 , 6, 202 | 30 |
| 999 | Microbiome modulates intestinal homeostasis against inflammatory diseases. 2018 , 205, 97-105 | 17 |
| 998 | Isolated Rearing at Lactation Increases Gut Microbial Diversity and Post-weaning Performance in Pigs. 2018 , 9, 2889 | 12 |
| 997 | The human archaeome: methodological pitfalls and knowledge gaps. 2018 , 2, 469-482 | 14 |
| 996 | Inherited nongenetic influences on the gut microbiome and immune system. 2018 , 110, 1494-1503 | 4 |
| 995 | Comparison of Microbiota Variation in Korean Healthy Adolescents with Adults Suggests Notable Maturity Differences. 2018 , 22, 770-778 | 1 |
| 994 | Microbial Biomarkers of Intestinal Barrier Maturation in Preterm Infants. 2018 , 9, 2755 | 27 |
| 993 | Encapsulation of Polyphenols: An Effective Way To Enhance Their Bioavailability for Gut Health. 2018 , 239-259 | 5 |
| 992 | The Microbiome and Radiation Induced-Bowel Injury: Evidence for Potential Mechanistic Role in Disease Pathogenesis. 2018 , 10, | 49 |
| 991 | Gut Microbiota and Body Weight in School-Aged Children: The KOALA Birth Cohort Study. 2018 , 26, 1767-1776 | 18 |
| 990 | A reverse metabolic approach to weaning: in silico identification of immune-beneficial infant gut bacteria, mining their metabolism for prebiotic feeds and sourcing these feeds in the natural product space. 2018 , 6, 171 | 11 |
| 989 | Human Breast-Milk Feeding Enhances the Humoral and Cell-Mediated Immune Response in Neonatal Piglets. 2018 , 148, 1860-1870 | 15 |
| 988 | Development of the Tonsil Microbiome in Pigs and Effects of Stress on the Microbiome. 2018 , 5, 220 | 9 |
| 987 | Introductory Overview of Statistical Analysis of Microbiome Data. 2018 , 43-75 | 5 |
| 986 | The gut microbiota in infants of obese mothers increases inflammation and susceptibility to NAFLD. 2018 , 9, 4462 | 112 |
| 985 | Neonatal gut and respiratory microbiota: coordinated development through time and space. 2018 , 6, 193 | 38 |
| 984 | Distinct mucosal microbial communities in infants with surgical necrotizing enterocolitis correlate with age and antibiotic exposure. 2018 , 13, e0206366 | 7 |
| 983 | Antibiotics and autoimmune and allergy diseases: Causative factor or treatment?. 2018 , 65, 328-341 | 24 |

| | | |
|-----|---|-----|
| 982 | Temporal development of the gut microbiome in early childhood from the TEDDY study. 2018 , 562, 583-588 | 619 |
| 981 | The human gut microbiome in early-onset type 1 diabetes from the TEDDY study. 2018 , 562, 589-594 | 323 |
| 980 | Gut Microbiota in the First 2 Years of Life and the Association with Body Mass Index at Age 12 in a Norwegian Birth Cohort. 2018 , 9, | 80 |
| 979 | The effect of breastmilk and saliva combinations on the in vitro growth of oral pathogenic and commensal microorganisms. 2018 , 8, 15112 | 24 |
| 978 | Dietary or supplemental fermentable fiber intake reduces the presence of Clostridium XI in mouse intestinal microbiota: The importance of higher fecal bacterial load and density. 2018 , 13, e0205055 | 6 |
| 977 | Microbiome and diabetes: Where are we now?. 2018 , 146, 111-118 | 56 |
| 976 | Competitive lottery-based assembly of selected clades in the human gut microbiome. 2018 , 6, 186 | 26 |
| 975 | The Extended Genotype: Microbially Mediated Olfactory Communication. 2018 , 33, 885-894 | 34 |
| 974 | Breast-feeding as 'personalized nutrition'. 2018 , 72, 1234-1238 | 1 |
| 973 | The variation profile of intestinal microbiota in blunt snout bream (<i>Megalobrama amblycephala</i>) during feeding habit transition. 2018 , 18, 99 | 14 |
| 972 | Child Weight Gain Trajectories Linked To Oral Microbiota Composition. 2018 , 8, 14030 | 23 |
| 971 | The Gut Microbiota in the Pathogenesis and Therapeutics of Inflammatory Bowel Disease. 2018 , 9, 2247 | 258 |
| 970 | Interkingdom Community Interactions in Disease Ecology. 2018 , 3-38 | 1 |
| 969 | Model development: establishing pigs with homogenous microbial profile in the hind gut. 2018 , 98, 498-507 | 2 |
| 968 | [Characterization and impact of respiratory microbiota on viral infections]. 2018 , 22, 161-172 | 0 |
| 967 | Control of Clostridium difficile Infection by Defined Microbial Communities. 2018 , 267-289 | 0 |
| 966 | Bifidobacteria and Their Health-Promoting Effects. 2018 , 73-98 | 11 |
| 965 | American Gut: an Open Platform for Citizen Science Microbiome Research. 2018 , 3, | 336 |

| | | |
|-----|---|-----|
| 964 | The Neuroendocrinology of the Microbiota-Gut-Brain Axis: A Behavioural Perspective. 2018 , 51, 80-101 | 122 |
| 963 | Bariatric surgery drives major rearrangements of the intestinal microbiota including the biofilm composition. 2018 , 10, 495-505 | 9 |
| 962 | Gut Microbiota in Multiple Sclerosis and Experimental Autoimmune Encephalomyelitis: Current Applications and Future Perspectives. 2018 , 2018, 8168717 | 70 |
| 961 | An Overview of the Roles of the Gut Microbiome in Obesity and Diabetes. 2018 , 65-91 | 2 |
| 960 | Toward an Intensive Longitudinal Understanding of Activated Sludge Bacterial Assembly and Dynamics. 2018 , 52, 8224-8232 | 21 |
| 959 | Influence of the Gut Microbiome on Immune Development During Early Life. 2018 , 767-774 | 2 |
| 958 | Juvenile Idiopathic Arthritis. 2018 , 221-237 | |
| 957 | Antibiotics in early life: dysbiosis and the damage done. 2018 , 42, 489-499 | 89 |
| 956 | The controversial role of in colorectal cancer. 2018 , 11, 1756284818783606 | 51 |
| 955 | Early-life antibiotics attenuate regulatory T cell generation and increase the severity of murine house dust mite-induced asthma. 2018 , 84, 426-434 | 12 |
| 954 | Potential Role of the Gut Microbiome in ALS: A Systematic Review. 2018 , 20, 513-521 | 29 |
| 953 | Alternate life history phases of a common seaweed have distinct microbial surface communities. 2018 , 27, 3555-3568 | 16 |
| 952 | Bioactive Lipids. 2018 , 1-61 | 1 |
| 951 | Drivers of Microbiome Biodiversity: A Review of General Rules, Feces, and Ignorance. 2018 , 9, | 120 |
| 950 | Gut Microbes: The Miniscule Laborers in the Human Body. 2018 , 1-31 | 1 |
| 949 | Gut Microbiota as a Missing Link Between Nutrients and Traits of Human. 2018 , 9, 1510 | 12 |
| 948 | Microbiome and Diseases: Pathogen Infection. 2018 , 209-230 | |
| 947 | Microbiome and Early Life. 2018 , 31-47 | 1 |

| | | |
|-----|---|-----|
| 946 | Dynamics of Gut Microbiota Diversity During the Early Development of an Avian Host: Evidence From a Cross-Foster Experiment. 2018 , 9, 1524 | 39 |
| 945 | Gut microbes contribute to variation in solid organ transplant outcomes in mice. 2018 , 6, 96 | 29 |
| 944 | Signatures of ecological processes in microbial community time series. 2018 , 6, 120 | 40 |
| 943 | Metabolomic signatures distinguish the impact of formula carbohydrates on disease outcome in a preterm piglet model of NEC. 2018 , 6, 111 | 15 |
| 942 | Mother's Milk: A Purposeful Contribution to the Development of the Infant Microbiota and Immunity. 2018 , 9, 361 | 195 |
| 941 | A Critical Review of the Bacterial Baptism Hypothesis and the Impact of Cesarean Delivery on the Infant Microbiome. 2018 , 5, 135 | 81 |
| 940 | Predicted Bacterial Interactions Affect Microbial Colonization Dynamics in. 2018 , 9, 728 | 16 |
| 939 | Exposure to Arsenic Alters the Microbiome of Larval Zebrafish. 2018 , 9, 1323 | 31 |
| 938 | Predictive Modeling of Microbiome Data Using a Phylogeny-Regularized Generalized Linear Mixed Model. 2018 , 9, 1391 | 21 |
| 937 | Aluminum Adjuvant-Containing Vaccines in the Context of the Hygiene Hypothesis: A Risk Factor for Eosinophilia and Allergy in a Genetically Susceptible Subpopulation?. 2018 , 15, | 11 |
| 936 | Strain-Level Analysis of Mother-to-Child Bacterial Transmission during the First Few Months of Life. 2018 , 24, 146-154.e4 | 189 |
| 935 | A unified conceptual framework for prediction and control of microbiomes. 2018 , 44, 20-27 | 21 |
| 934 | Intestinal Microbiota Influences Non-intestinal Related Autoimmune Diseases. 2018 , 9, 432 | 92 |
| 933 | Composition of gut microbiota and its influence on the immunogenicity of oral rotavirus vaccines. 2018 , 36, 3427-3433 | 20 |
| 932 | Development of the tonsillar microbiome in pigs from newborn through weaning. 2018 , 18, 35 | 14 |
| 931 | Response of rumen bacterial diversity and fermentation parameters in beef cattle to diets containing supplemental daidzein. 2018 , 17, 643-649 | 5 |
| 930 | Developmental Immunotoxicology Testing (DIT). 2018 , 467-497 | 0 |
| 929 | The gut microbiome as a driver of individual variation in cognition and functional behaviour. 2018 , 373, | 55 |

| | | |
|-----|---|-----|
| 928 | Development of the Pediatric Gut Microbiome: Impact on Health and Disease. 2018 , 356, 413-423 | 45 |
| 927 | The journey of gut microbiome □An introduction and its influence on metabolic disorders. 2018 , 13, 327-341 | 4 |
| 926 | Unhealthy gut, unhealthy brain: The role of the intestinal microbiota in neurodegenerative diseases. 2018 , 120, 149-163 | 118 |
| 925 | Negative Binomial Mixed Models for Analyzing Longitudinal Microbiome Data. 2018 , 9, 1683 | 26 |
| 924 | Innate Immunity of Neonates and Infants. 2018 , 9, 1759 | 107 |
| 923 | Exploring the Impact of the Biofloc Rearing System and an Oral WSSV Challenge on the Intestinal Bacteriome of. 2018 , 6, | 23 |
| 922 | Effect of Diet on Gut Microbiota as an Etiological Factor in Autism Spectrum Disorder. 2018 , 273-297 | 1 |
| 921 | Rebuilding the Gut Microbiota Ecosystem. 2018 , 15, | 144 |
| 920 | Season, age, and sex affect the fecal mycobiota of free-ranging Tibetan macaques (<i>Macaca thibetana</i>). 2018 , 80, e22880 | 14 |
| 919 | Interactions of commensal and pathogenic microorganisms with the intestinal mucosal barrier. 2018 , 16, 457-470 | 226 |
| 918 | Gut bacterial and fungal communities of the domesticated silkworm (<i>Bombyx mori</i>) and wild mulberry-feeding relatives. 2018 , 12, 2252-2262 | 87 |
| 917 | Individuality and convergence of the infant gut microbiota during the first year of life. 2018 , 9, 2233 | 46 |
| 916 | The Microbiome in Psychology and Cognitive Neuroscience. 2018 , 22, 611-636 | 97 |
| 915 | Endospores and other lysis-resistant bacteria comprise a widely shared core community within the human microbiota. 2018 , 12, 2403-2416 | 22 |
| 914 | Modifying and reacting to the environmental pH can drive bacterial interactions. 2018 , 16, e2004248 | 142 |
| 913 | Gut Microbiota, Early Colonization and Factors in its Development that Influence Health. 2018 , 1-35 | |
| 912 | Common ground: shared risk factors for type 1 diabetes and celiac disease. 2018 , 19, 685-695 | 24 |
| 911 | Age-related changes in the gut microbiota of wild House Sparrow nestlings. 2019 , 161, 184-191 | 19 |

| | | |
|-----|---|-----|
| 910 | The Gut Microbiome Alterations and Inflammation-Driven Pathogenesis of Alzheimer's Disease-a Critical Review. 2019 , 56, 1841-1851 | 204 |
| 909 | Microbiota: Novel Gateway Towards Personalised Medicine. 2019 , 107-120 | |
| 908 | Reduced genetic potential for butyrate fermentation in the gut microbiome of infants who develop allergic sensitization. 2019 , 144, 1638-1647.e3 | 46 |
| 907 | What Pediatricians Should Know Before Studying Gut Microbiota. 2019 , 8, | 4 |
| 906 | Global change-driven use of onshore habitat impacts polar bear faecal microbiota. 2019 , 13, 2916-2926 | 15 |
| 905 | Establishing What Constitutes a Healthy Human Gut Microbiome: State of the Science, Regulatory Considerations, and Future Directions. 2019 , 149, 1882-1895 | 91 |
| 904 | Early nutrition and gut microbiome: interrelationship between bacterial metabolism, immune system, brain structure, and neurodevelopment. 2019 , 317, E617-E630 | 17 |
| 903 | Gut dysbiosis and its epigenomic impact on disease. 2019 , 409-422 | 1 |
| 902 | Probiotics for the prevention of pediatric antibiotic-associated diarrhea: Summary of a Cochrane review. 2019 , 15, 382-383 | 2 |
| 901 | Protective Effects of Anthocyanins in Obesity-Associated Inflammation and Changes in Gut Microbiome. 2019 , 63, e1900149 | 28 |
| 900 | Fecal microbiota of different reproductive stages of the central population of the lesser-long nosed bat, <i>Leptonycteris yerbabuenae</i> . 2019 , 14, e0219982 | 7 |
| 899 | Gut Microbiomes and Their Impact on Human Health. 2019 , 355-385 | |
| 898 | Fungal Diversity: Global Perspective and Ecosystem Dynamics. 2019 , 83-113 | 4 |
| 897 | Glycan utilisation system in <i>Bacteroides</i> and <i>Bifidobacteria</i> and their roles in gut stability and health. 2019 , 103, 7287-7315 | 23 |
| 896 | Onset of feed intake of the suckling rabbit and evidence of dietary preferences according to pellet physical properties. 2019 , 255, 114223 | 3 |
| 895 | The Predominant Oral Microbiota Is Acquired Early in an Organized Pattern. 2019 , 9, 10550 | 31 |
| 894 | Protocol for the Emory University African American maternal stress and infant gut microbiome cohort study. 2019 , 19, 246 | 8 |
| 893 | Nexus of Stochastic and Deterministic Processes on Microbial Community Assembly in Biological Systems. 2019 , 10, 1536 | 17 |

| | | |
|-----|--|-----|
| 892 | High spatiotemporal variability of bacterial diversity over short time scales with unique hydrochemical associations within a shallow aquifer. 2019 , 164, 114917 | 12 |
| 891 | Temporal association of the development of oropharyngeal microbiota with early life wheeze in a population-based birth cohort. 2019 , 46, 486-498 | 9 |
| 890 | Phthalate exposure alters gut microbiota composition and IgM vaccine response in human newborns. 2019 , 132, 110700 | 20 |
| 889 | Modeling the temporal dynamics of the gut microbial community in adults and infants. 2019 , 15, e1006960 | 21 |
| 888 | Development of the equine gut microbiota. 2019 , 9, 14427 | 11 |
| 887 | Light-Stress Influences the Composition of the Murine Gut Microbiome, Memory Function, and Plasma Metabolome. 2019 , 6, 108 | 14 |
| 886 | The Gut Microbiome. 2019 , 61-98 | 1 |
| 885 | Age-related compositional and functional changes in micro-pig gut microbiome. 2019 , 41, 935-944 | 10 |
| 884 | Using compositional principal component analysis to describe children's gut microbiota in relation to diet and body composition. 2020 , 111, 70-78 | 8 |
| 883 | Is there any association between gut microbiota and type 1 diabetes? A systematic review. 2019 , 11, 49 | 35 |
| 882 | Perinatal Interactions between the Microbiome, Immunity, and Neurodevelopment. 2019 , 50, 18-36 | 62 |
| 881 | Seasonal Dynamics of Soil Fungal and Bacterial Communities in Cool-Temperate Montane Forests. 2019 , 10, 1944 | 25 |
| 880 | Neonatal Consumption of Oligosaccharides Greatly Increases L-Cell Density without Significant Consequence for Adult Eating Behavior. 2019 , 11, | 5 |
| 879 | The Microbiota-Gut-Brain Axis. 2019 , 99, 1877-2013 | 979 |
| 878 | Maturation of the infant rhesus macaque gut microbiome and its role in the development of diarrheal disease. 2019 , 20, 173 | 19 |
| 877 | Dietary intake influences gut microbiota development of healthy Australian children from the age of one to two years. 2019 , 9, 12476 | 17 |
| 876 | The Gut Microbiota in the First Decade of Life. 2019 , 27, 997-1010 | 151 |
| 875 | Dietary Fatty Acids and Host-Microbial Crosstalk in Neonatal Enteric Infection. 2019 , 11, | 7 |

| | | |
|-----|---|-----|
| 874 | Gut microbiome in serious mental illnesses: A systematic review and critical evaluation. 2021 , 234, 24-40 | 29 |
| 873 | Diet-microbiota interactions and personalized nutrition. 2019 , 17, 742-753 | 274 |
| 872 | New system to examine the activity and water and food intake of germ-free mice in a sealed positive-pressure cage. 2019 , 5, e02176 | 7 |
| 871 | Differences in the bacterial profiles of infant gut by birth process, milk diet, and choice of 16S rRNA gene target region. 2019 , 13, 100062 | 1 |
| 870 | The effect of 2'-fucosyllactose on simulated infant gut microbiome and metabolites; a pilot study in comparison to GOS and lactose. 2019 , 9, 13232 | 30 |
| 869 | An evolutionary signal to fungal succession during plant litter decay. 2019 , 95, | 17 |
| 868 | Rice bran supplementation modulates growth, microbiota and metabolome in weaning infants: a clinical trial in Nicaragua and Mali. 2019 , 9, 13919 | 20 |
| 867 | Impact of a Nomadic Pastoral Lifestyle on the Gut Microbiome in the Fulani Living in Nigeria. 2019 , 10, 2138 | 10 |
| 866 | Bacteriophages: Uncharacterized and Dynamic Regulators of the Immune System. 2019 , 2019, 3730519 | 20 |
| 865 | Beneficial Effects of Dietary Polyphenols on Gut Microbiota and Strategies to Improve Delivery Efficiency. 2019 , 11, | 170 |
| 864 | Taxonomic relatedness and environmental pressure synergistically drive the primary succession of biofilm microbial communities in reclaimed wastewater distribution systems. 2019 , 124, 25-37 | 18 |
| 863 | Close social relationships correlate with human gut microbiota composition. 2019 , 9, 703 | 81 |
| 862 | Bioactive Lipids. 2019 , 467-527 | 5 |
| 861 | Contextual risk factors impacting the colonization and development of the intestinal microbiota: Implications for children in low- and middle-income countries. 2019 , 61, 714-728 | 3 |
| 860 | Trait-based community assembly and succession of the infant gut microbiome. 2019 , 10, 512 | 46 |
| 859 | Utilizing longitudinal microbiome taxonomic profiles to predict food allergy via Long Short-Term Memory networks. 2019 , 15, e1006693 | 11 |
| 858 | Bifidobacterium dentium Fortifies the Intestinal Mucus Layer via Autophagy and Calcium Signaling Pathways. 2019 , 10, | 70 |
| 857 | Genomic and Metagenomic Insights Into the Microbial Community in the Regenerating Intestine of the Sea Cucumber. 2019 , 10, 1165 | 11 |

| | | |
|-----|---|-----|
| 856 | Understanding the Role of the Gut Microbiome and Microbial Metabolites in Obesity and Obesity-Associated Metabolic Disorders: Current Evidence and Perspectives. 2019 , 8, 317-332 | 116 |
| 855 | Surveying Gut Microbiome Research in Africans: Toward Improved Diversity and Representation. 2019 , 27, 824-835 | 30 |
| 854 | Impact of the Gastrointestinal Microbiome in Health and Disease: Co-evolution with the Host Immune System. 2019 , 421, 303-318 | 15 |
| 853 | The Integrative Human Microbiome Project. 2019 , 569, 641-648 | 411 |
| 852 | Diversity and Co-occurrence Pattern Analysis of Cecal Microbiota Establishment at the Onset of Solid Feeding in Young Rabbits. 2019 , 10, 973 | 9 |
| 851 | The intestinal microbiota and cardiovascular disease. 2019 , 115, 1471-1486 | 20 |
| 850 | The Not-so-Sterile Womb: Evidence That the Human Fetus Is Exposed to Bacteria Prior to Birth. 2019 , 10, 1124 | 149 |
| 849 | Molecular Mechanisms of Inflammation: Induction, Resolution and Escape by <i>Helicobacter pylori</i> . 2019 , | 2 |
| 848 | The development and ecology of the Japanese macaque gut microbiome from weaning to early adolescence in association with diet. 2019 , 81, e22980 | 9 |
| 847 | Strong Multivariate Relations Exist Among Milk, Oral, and Fecal Microbiomes in Mother-Infant Dyads During the First Six Months Postpartum. 2019 , 149, 902-914 | 55 |
| 846 | Using fecal microbiota as biomarkers for predictions of performance in the selective breeding process of pedigree broiler breeders. 2019 , 14, e0216080 | 13 |
| 845 | <i>Cutibacterium avidum</i> is phylogenetically diverse with a subpopulation being adapted to the infant gut. 2019 , 42, 506-516 | 5 |
| 844 | Age- and Sex-Dependent Patterns of Gut Microbial Diversity in Human Adults. 2019 , 4, | 110 |
| 843 | Impact of Gut Microbiota Composition on Onset and Progression of Chronic Non-Communicable Diseases. 2019 , 11, | 58 |
| 842 | Correlating Infant Faecal Microbiota Composition and Human Milk Oligosaccharide Consumption by Microbiota of One-Month Old Breastfed Infants. 2019 , 63, e1801214 | 48 |
| 841 | Eradication Treatment Alters Gut Microbiota and GLP-1 Secretion in Humans. 2019 , 8, | 27 |
| 840 | Model selection in biological networks using a graphical EM algorithm. 2019 , 349, 271-280 | 3 |
| 839 | Biologically inspired approaches to enhance human organoid complexity. 2019 , 146, | 53 |

| | | |
|-----|---|----|
| 838 | The Gut Microbiota-Host Partnership as a Potential Driver of Kawasaki Syndrome. 2019 , 7, 124 | 25 |
| 837 | Gut microbiome composition of wild western lowland gorillas is associated with individual age and sex factors. 2019 , 169, 575-585 | 5 |
| 836 | Impact of the microbiome on cancer progression and response to anti-cancer therapies. 2019 , 143, 255-294 | 10 |
| 835 | The role of autophagy in maintaining intestinal mucosal barrier. 2019 , 234, 19406-19419 | 27 |
| 834 | The Microbiome and Food Allergy. 2019 , 37, 377-403 | 58 |
| 833 | The Effects of Fecal Donors with Different Feeding Patterns on Diarrhea in a Patient Undergoing Hematopoietic Stem Cell Transplantation. 2019 , 2019, 4505238 | 5 |
| 832 | Interactions Between Food and Gut Microbiota: Impact on Human Health. 2019 , 10, 389-408 | 29 |
| 831 | Michigan cohorts to determine associations of maternal pre-pregnancy body mass index with pregnancy and infant gastrointestinal microbial communities: Late pregnancy and early infancy. 2019 , 14, e0213733 | 31 |
| 830 | Differential Effects of Breed and Nursing on Early-Life Colonic Microbiota and Immune Status as Revealed in a Cross-Fostering Piglet Model. 2019 , 85, | 11 |
| 829 | Major shifts in gut microbiota during development and its relationship to growth in ostriches. 2019 , 28, 2653-2667 | 31 |
| 828 | Gut Microbial Dynamics during Conventionalization of Germfree Chicken. 2019 , 4, | 14 |
| 827 | Development and Function of the Intestinal Microbiome and Potential Implications for Pig Production. 2019 , 9, | 37 |
| 826 | Subchronic low-dose 2,4-D exposure changed plasma acylcarnitine levels and induced gut microbiome perturbations in mice. 2019 , 9, 4363 | 11 |
| 825 | Microbiome programming of brain development: implications for neurodevelopmental disorders. 2019 , 61, 744-749 | 18 |
| 824 | MNEMONIC: Metagenomic Experiment Mining to create an OTU Network of Inhabitant Correlations. 2019 , 20, 96 | 0 |
| 823 | Effect of maternal diet on select fecal bacteria of foals. 2019 , 3, 204-211 | |
| 822 | Forty-five-year evolution of probiotic therapy. 2019 , 6, 184-196 | 25 |
| 821 | Factors influencing the gut microbiome in children: from infancy to childhood. 2019 , 44, 1 | 30 |

| | | |
|-----|---|-----|
| 820 | Intestinal Microbiota in Early Life and Its Implications on Childhood Health. 2019 , 17, 13-25 | 74 |
| 819 | The Transformative Possibilities of the Microbiota and Mycobiota for Health, Disease, Aging, and Technological Innovation. 2019 , 7, | 18 |
| 818 | A place for taxonomic profiling in the study of the coral prokaryotic microbiome. 2019 , 366, | 5 |
| 817 | The gut virome: the 'missing link' between gut bacteria and host immunity?. 2019 , 12, 1756284819836620 | 81 |
| 816 | Perinatal factors affect the gut microbiota up to four years after birth. 2019 , 10, 1517 | 114 |
| 815 | Gut Microbiome in Health and Disease: Emerging Diagnostic Opportunities. 2019 , 48, 221-235 | 13 |
| 814 | Immunity, microbiota and kidney disease. 2019 , 15, 263-274 | 46 |
| 813 | The effect of prebiotic fortified infant formulas on microbiota composition and dynamics in early life. 2019 , 9, 2434 | 43 |
| 812 | Metformin: A Candidate Drug to Control the Epidemic of Diabetes and Obesity by Way of Gut Microbiome Modification. 2019 , 401-408 | 2 |
| 811 | Deleterious Impact of Smog on the Intestinal Bacteria. 2019 , 409-414 | 1 |
| 810 | Reviews on Biomarker Studies in Psychiatric and Neurodegenerative Disorders. 2019 , | 3 |
| 809 | Role of the Gut Microbiome in Autism Spectrum Disorders. 2019 , 1118, 253-269 | 48 |
| 808 | Longitudinal Microbiome Composition and Stability Correlate with Increased Weight and Length of Very-Low-Birth-Weight Infants. 2019 , 4, | 29 |
| 807 | Psychotropics and the Microbiome: a Chamber of Secrets□ 2019 , 236, 1411-1432 | 65 |
| 806 | A Novel Sparse Compositional Technique Reveals Microbial Perturbations. 2019 , 4, | 137 |
| 805 | Dietary Short Chain Fatty Acids: How the Gut Microbiota Fight Against Autoimmune and Inflammatory Diseases. 2019 , 139-159 | 4 |
| 804 | Establishment of an ideal gut microbiota to boost healthy growth of neonates. 2019 , 45, 118-129 | 9 |
| 803 | A role for the microbiome in mother-infant interaction and perinatal depression. 2019 , 31, 280-294 | 9 |

| | | |
|-----|---|-----|
| 802 | Oral administration of <i>Lactobacillus rhamnosus</i> GG to newborn piglets augments gut barrier function in pre-weaning piglets. 2019 , 20, 180-192 | 17 |
| 801 | Infant Complementary Feeding of Prebiotics for the Microbiome and Immunity. 2019 , 11, | 18 |
| 800 | Gut microbiota development of preterm infants hospitalised in intensive care units. 2019 , 10, 641-651 | 20 |
| 799 | Shielding the Next Generation: Symbiotic Bacteria from a Reproductive Organ Protect Bobtail Squid Eggs from Fungal Fouling. 2019 , 10, | 13 |
| 798 | The Therapeutic Potential of the Yin-Yang Garden in Our Gut. 2019 , | 1 |
| 797 | Exploring Computational Inference of Microbial Interactions and their Dynamics. 2019 , | |
| 796 | Fine-Scale Biogeography and the Inference of Ecological Interactions Among Neutrophilic Iron-Oxidizing Zetaproteobacteria as Determined by a Rule-Based Microbial Network. 2019 , 10, 2389 | 4 |
| 795 | Cooperation Enhances Robustness of Coexistence in Spatially Structured Consortia. 2019 , | 4 |
| 794 | Maternal milk and fecal microbes guide the spatiotemporal development of mucosa-associated microbiota and barrier function in the porcine neonatal gut. 2019 , 17, 106 | 22 |
| 793 | Lung Microbiome in Asthma: Current Perspectives. 2019 , 8, | 28 |
| 792 | The Potential Influence of the Bacterial Microbiome on the Development and Progression of ADHD. 2019 , 11, | 30 |
| 791 | Inter-relationship between diet, lifestyle habits, gut microflora, and the equol-producer phenotype: baseline findings from a placebo-controlled intervention trial. 2019 , 26, 273-285 | 15 |
| 790 | Microbial transmission from mother to child: improving infant intestinal microbiota development by identifying the obstacles. 2019 , 45, 613-648 | 13 |
| 789 | Culture of Methanogenic Archaea from Human Colostrum and Milk. 2019 , 9, 18653 | 26 |
| 788 | Gut Microbiota and Obesity: Prebiotic and Probiotic Effects. 2019 , | 1 |
| 787 | Stunted microbiota and opportunistic pathogen colonization in caesarean-section birth. 2019 , 574, 117-121 | 305 |
| 786 | The Microbiome and Its Potential for Pharmacology. 2019 , 260, 301-326 | 9 |
| 785 | 2. Analysis of lithic microbial communities. 2019 , 23-32 | |

| | | |
|-----|--|-----|
| 784 | Assessing the in vivo data on low/no-calorie sweeteners and the gut microbiota. 2019 , 124, 385-399 | 44 |
| 783 | Assessing the Influence of Dietary History on Gut Microbiota. 2019 , 76, 237-247 | 3 |
| 782 | Microbiota and Food Allergy. 2019 , 57, 83-97 | 45 |
| 781 | Metabolic Basis for Mutualism between Gut Bacteria and Its Impact on the Host. 2019 , 85, | 34 |
| 780 | Metabolic adaptation in the human gut microbiota during pregnancy and the first year of life. 2019 , 39, 497-509 | 17 |
| 779 | The Human Microbiota and Asthma. 2019 , 57, 350-363 | 39 |
| 778 | Breastfeeding: a key modulator of gut microbiota characteristics in late infancy. 2019 , 10, 206-213 | 11 |
| 777 | Connection between gut microbiome and brain development in preterm infants. 2019 , 61, 739-751 | 40 |
| 776 | Superior Dispersal Ability Can Lead to Persistent Ecological Dominance throughout Succession. 2019 , 85, | 5 |
| 775 | Probiotics, prebiotics and amelioration of diseases. 2019 , 26, 3 | 136 |
| 774 | Impact of early events and lifestyle on the gut microbiota and metabolic phenotypes in young school-age children. 2019 , 7, 2 | 82 |
| 773 | Gut microbiome and brain functional connectivity in infants-a preliminary study focusing on the amygdala. 2019 , 236, 1641-1651 | 49 |
| 772 | A great-ape view of the gut microbiome. 2019 , 20, 195-206 | 30 |
| 771 | The role of the gut microbiota in development, function and disorders of the central nervous system and the enteric nervous system. 2019 , 31, e12684 | 95 |
| 770 | The Microbiome in Celiac Disease. 2019 , 48, 115-126 | 22 |
| 769 | The interplay among gut microbiota, hypertension and kidney diseases: The role of short-chain fatty acids. 2019 , 141, 366-377 | 50 |
| 768 | MBase trois: Virus, Host, and Microbiota in Experimental Infection Models. 2019 , 27, 440-452 | 8 |
| 767 | Elective cesarean delivery at term and the long-term risk for endocrine and metabolic morbidity of the offspring. 2019 , 10, 429-435 | 2 |

| | | |
|-----|---|-----|
| 766 | The microbiota-gut-brain axis: A promising avenue to foster healthy developmental outcomes. 2019 , 61, 772-782 | 11 |
| 765 | Gut microbiota in children and altered profiles in juvenile idiopathic arthritis. 2019 , 98, 1-12 | 19 |
| 764 | Ginsenosides, catechins, quercetin and gut microbiota: Current evidence of challenging interactions. 2019 , 123, 42-49 | 57 |
| 763 | The role of obesity in inflammatory bowel disease. 2019 , 1865, 63-72 | 24 |
| 762 | The Human Microbiome and Child Growth - First 1000 Days and Beyond. 2019 , 27, 131-147 | 238 |
| 761 | Metagenomic characterisation of ruminal bacterial diversity in buffaloes from birth to adulthood using 16S rRNA gene amplicon sequencing. 2019 , 19, 237-247 | 8 |
| 760 | Obesity, diabetes, and the gut microbiome: an updated review. 2019 , 13, 3-15 | 70 |
| 759 | Colonization of <i>Cutibacterium avidum</i> during infant gut microbiota establishment. 2019 , 95, | 8 |
| 758 | Geospatial variation in co-occurrence networks of nitrifying microbial guilds. 2019 , 28, 293-306 | 28 |
| 757 | Antenatal Microbial Colonization of Mammalian Gut. 2019 , 26, 1045-1053 | 21 |
| 756 | An insight into gut microbiota and its functionalities. 2019 , 76, 473-493 | 169 |
| 755 | The Human Microbiome in Health and Disease. 2019 , 607-618 | 7 |
| 754 | Recent Developments in the Prevention of Obesity by Using Microorganisms. 2019 , 47-60 | 1 |
| 753 | When can competition and dispersal lead to checkerboard distributions?. 2019 , 88, 269-276 | 17 |
| 752 | The Gut Microbiome in Adult and Pediatric Functional Gastrointestinal Disorders. 2019 , 17, 256-274 | 69 |
| 751 | The mammalian mycobiome: A complex system in a dynamic relationship with the host. 2019 , 11, e1438 | 40 |
| 750 | You are what you eat: diet, health and the gut microbiota. 2019 , 16, 35-56 | 492 |
| 749 | Gut microbiome and its role in obesity and insulin resistance. 2020 , 1461, 37-52 | 87 |

| | | |
|-----|---|----|
| 748 | Dietary iron variably modulates assembly of the intestinal microbiota in colitis-resistant and colitis-susceptible mice. 2020 , 11, 32-50 | 19 |
| 747 | Establishment of the early-life microbiome: a DOHaD perspective. 2020 , 11, 201-210 | 22 |
| 746 | Intestinal dysbiosis and necrotizing enterocolitis: assessment for causality using Bradford Hill criteria. 2020 , 87, 235-248 | 21 |
| 745 | Influence of Commensal Microbiota and Metabolite for Mucosal Immunity. 2020 , 143-164 | 1 |
| 744 | Microbial succession during wheat bran fermentation and colonisation by human faecal microbiota as a result of niche diversification. 2020 , 14, 584-596 | 18 |
| 743 | Reconciling Hygiene and Cleanliness: A New Perspective from Human Microbiome. 2020 , 60, 37-44 | 4 |
| 742 | Dietary Habits of 2- to 9-Year-Old American Children Are Associated with Gut Microbiome Composition. 2020 , 120, 517-534 | 18 |
| 741 | Contrasting Strategies: Human Eukaryotic Versus Bacterial Microbiome Research. 2020 , 67, 279-295 | 11 |
| 740 | Bidirectional gut-microbial-mediated-brain signaling: A new player in stress physiology? (Commentary on O'Mahony et al., 2019). 2020 , 52, 3487-3489 | 0 |
| 739 | Characterization of the gut microbiota of Nicaraguan children in a water insecure context. 2020 , 32, e23371 | 6 |
| 738 | Cotrimoxazole Prophylaxis Increases Resistance Gene Prevalence and Diversity but Decreases Diversity in the Gut Microbiome of Human Immunodeficiency Virus-Exposed, Uninfected Infants. 2020 , 71, 2858-2868 | 11 |
| 737 | Microbiome and hypertension: where are we now?. 2020 , 21, 83-88 | 17 |
| 736 | The connection between microbiome and schizophrenia. 2020 , 108, 712-731 | 29 |
| 735 | The enemy from within: a prophage of Roseburia intestinalis systematically turns lytic in the mouse gut, driving bacterial adaptation by CRISPR spacer acquisition. 2020 , 14, 771-787 | 20 |
| 734 | Neonate gut colonization: The rise of a social brain. 2020 , 32, e13767 | 1 |
| 733 | Use of Fecal Slurry Cultures to Study In Vitro Effects of Bacteriocins on the Gut Bacterial Populations of Infants. 2020 , 12, 1218-1225 | 1 |
| 732 | Annual Research Review: Critical windows - the microbiota-gut-brain axis in neurocognitive development. 2020 , 61, 353-371 | 46 |
| 731 | Drinking water improvements and rates of urinary and gastrointestinal infections in Galápagos, Ecuador: Assessing household and community factors. 2020 , 32, e23358 | 11 |

| | | |
|-----|---|----|
| 730 | Higher frequency of vertebrate-infecting viruses in the gut of infants born to mothers with type 1 diabetes. 2020 , 21, 271-279 | 6 |
| 729 | Acquisition and Development of the Extremely Preterm Infant Microbiota Across Multiple Anatomical Sites. 2020 , 70, 12-19 | 7 |
| 728 | Characterizing the Composition of the Pediatric Gut Microbiome: A Systematic Review. 2019 , 12, | 17 |
| 727 | Contrasting microbiota profiles observed in children carrying either <i>Blastocystis</i> spp. or the commensal amoebas <i>Entamoeba coli</i> or <i>Endolimax nana</i> . 2020 , 10, 15354 | 8 |
| 726 | Comparison of gut microbiota in exclusively breast-fed and formula-fed babies: a study of 91 term infants. 2020 , 10, 15792 | 35 |
| 725 | Nutrition and the Gut Microbiota in 10- to 18-Month-Old Children Living in Urban Slums of Mumbai, India. 2020 , 5, | 9 |
| 724 | Effects of β -Lactam Antibiotics on Gut Microbiota Colonization and Metabolites in Late Preterm Infants. 2020 , 77, 3888-3896 | 4 |
| 723 | Dietary cellulose induces anti-inflammatory immunity and transcriptional programs via maturation of the intestinal microbiota. 2020 , 12, 1-17 | 11 |
| 722 | Individualizing pharmacogenomic test results in the context of the microbiome. 2020 , 17, 459-468 | 1 |
| 721 | The Effect of Transitioning between Feeding Methods on the Gut Microbiota Dynamics of Yaks on the Qinghai-Tibet Plateau. 2020 , 10, | 2 |
| 720 | Dynamic change of the gastrointestinal bacterial ecology in cows from birth to adulthood. 2020 , 9, e1119 | 4 |
| 719 | Application of OU processes to modelling temporal dynamics of the human microbiome, and calculating optimal sampling schemes. 2020 , 21, 450 | |
| 718 | Gut Microbiome in Children from Indigenous and Urban Communities in M \ddot{e} xico: Different Subsistence Models, Different Microbiomes. 2020 , 8, | 4 |
| 717 | Dietary and Microbial Determinants in Food Allergy. 2020 , 53, 277-289 | 18 |
| 716 | Gut microbiota maturation during early human life induces enterocyte proliferation via microbial metabolites. 2020 , 20, 205 | 7 |
| 715 | Does entry to center-based childcare affect gut microbial colonization in young infants?. 2020 , 10, 10235 | 4 |
| 714 | Comparative Studies of the Gut Microbiota in the Offspring of Mothers With and Without Gestational Diabetes. 2020 , 10, 536282 | 4 |
| 713 | Effects of Antibiotics upon the Gut Microbiome: A Review of the Literature. 2020 , 8, | 27 |

| | | |
|-----|--|----|
| 712 | Distinct Stage Changes in Early-Life Colonization and Acquisition of the Gut Microbiota and Its Correlations With Volatile Fatty Acids in Goat Kids. 2020 , 11, 584742 | 3 |
| 711 | Effect of Bifidobacterium crudilactis and 3'-sialyllactose on the toddler microbiota using the SHIME model. 2020 , 138, 109755 | 4 |
| 710 | The Impact of Age and Pathogens Type on the Gut Microbiota in Infants with Diarrhea in Dalian, China. 2020 , 2020, 8837156 | 2 |
| 709 | Vaginal Microbiota Diversity of Patients with Embryonic Miscarriage by Using 16S rDNA High-Throughput Sequencing. 2020 , 2020, 1764959 | 5 |
| 708 | Gut Microbiota of Young Children Living in Four Brazilian Cities. 2020 , 8, 573815 | 2 |
| 707 | Bacterial Diversity in a Dynamic and Extreme Sub-Arctic Watercourse (Pasvik River, Norwegian Arctic). 2020 , 12, 3098 | 2 |
| 706 | The Impact of Oral Sodium Chloride Supplementation on Thrive and the Intestinal Microbiome in Neonates With Small Bowel Ostomies: A Prospective Cohort Study. 2020 , 11, 1421 | 5 |
| 705 | Diversity of Gut Microbiota and Bifidobacterial Community of Chinese Subjects of Different Ages and from Different Regions. 2020 , 8, | 9 |
| 704 | The Infant Gut Microbiota and Risk of Asthma: The Effect of Maternal Nutrition during Pregnancy and Lactation. 2020 , 8, | 8 |
| 703 | Succession of Bifidobacterium longum Strains in Response to a Changing Early Life Nutritional Environment Reveals Dietary Substrate Adaptations. 2020 , 23, 101368 | 11 |
| 702 | Polyphenols, the new frontiers of prebiotics. 2020 , 94, 35-89 | 13 |
| 701 | Alternations of gut microbiota composition in neonates conceived by assisted reproductive technology and its relation to infant growth. 2020 , 12, 1794466 | 1 |
| 700 | Evolving Technologies in Gastrointestinal Microbiome Era and Their Potential Clinical Applications. 2020 , 9, | 2 |
| 699 | Strain-level epidemiology of microbial communities and the human microbiome. 2020 , 12, 71 | 25 |
| 698 | The gut microbiome and potential implications for early-onset colorectal cancer. 2020 , 9, CRC25 | 3 |
| 697 | Host phylogeny and life history stage shape the gut microbiome in dwarf (Kogia sima) and pygmy (Kogia breviceps) sperm whales. 2020 , 10, 15162 | 2 |
| 696 | Multi-population cohort meta-analysis of human intestinal microbiota in early life reveals the existence of infant community state types (ICSTs). 2020 , 18, 2480-2493 | 10 |
| 695 | Intestinal CD8 ⁺ T _H 1s derived from two distinct thymic precursors have staggered ontogeny. 2020 , 217, | 5 |

| | | |
|-----|---|----|
| 694 | Gut-Brain Axis in the Early Postnatal Years of Life: A Developmental Perspective. 2020 , 14, 44 | 18 |
| 693 | Metabolic cross-feeding in imbalanced diets allows gut microbes to improve reproduction and alter host behaviour. 2020 , 11, 4236 | 25 |
| 692 | A toddler SHIME model to study microbiota of young children. 2020 , 367, | 6 |
| 691 | Brain-gut-microbiome interactions in obesity and food addiction. 2020 , 17, 655-672 | 46 |
| 690 | Gut Microbiome and Its Impact on Health and Diseases. 2020 , | 1 |
| 689 | Genotyping and plant-derived glycan utilization analysis of Bifidobacterium strains from mother-infant pairs. 2020 , 20, 277 | 0 |
| 688 | Metrics for Evaluating Inundation Impacts on the Decomposer Communities in a Southern California Coastal Salt Marsh. 2020 , 40, 2443-2459 | 2 |
| 687 | Nutritional Modulation of the Microbiome and Immune Response. 2020 , 205, 1479-1487 | 8 |
| 686 | Gut Microbiota between Environment and Genetic Background in Familial Mediterranean Fever (FMF). 2020 , 11, | 6 |
| 685 | Early Life Stress and the Development of the Infant Gut Microbiota: Implications for Mental Health and Neurocognitive Development. 2020 , 22, 61 | 3 |
| 684 | Differential longitudinal establishment of human fecal bacterial communities in germ-free porcine and murine models. 2020 , 3, 760 | 2 |
| 683 | Comparative Analysis of the Gut Microbial Communities of the Eurasian Kestrel () at Different Developmental Stages. 2020 , 11, 592539 | 3 |
| 682 | Resolving the Paradox of Colon Cancer Through the Integration of Genetics, Immunology, and the Microbiota. 2020 , 11, 600886 | 11 |
| 681 | Determinants of Staphylococcus aureus carriage in the developing infant nasal microbiome. 2020 , 21, 301 | 4 |
| 680 | The impact of early life antibiotic use on atopic and metabolic disorders: Meta-analyses of recent insights. 2020 , 2020, 279-289 | 9 |
| 679 | Evaluating the pathways linking complementary feeding practices to obesity in early life. 2020 , 78, 13-24 | 6 |
| 678 | Microbial Colonization From the Fetus to Early Childhood-A Comprehensive Review. 2020 , 10, 573735 | 10 |
| 677 | Developmental differences in the intestinal microbiota of Chinese 1-year-old infants and 4-year-old children. 2020 , 10, 19470 | 4 |

| | | |
|-----|---|-----|
| 676 | Sea Cucumber Intestinal Regeneration Reveals Deterministic Assembly of the Gut Microbiome. 2020 , 86, | 8 |
| 675 | Microbiome Composition and Its Impact on the Development of Allergic Diseases. 2020 , 11, 700 | 32 |
| 674 | The role of the microbiome in the neurobiology of social behaviour. 2020 , 95, 1131-1166 | 30 |
| 673 | Early Introduction of Solid Feeds: Ingestion Level Matters More Than Prebiotic Supplementation for Shaping Gut Microbiota. 2020 , 7, 261 | 3 |
| 672 | Age-related changes in the gut microbiota and the core gut microbiome of healthy Thai humans. 2020 , 10, 276 | 9 |
| 671 | Community-level signatures of ecological succession in natural bacterial communities. 2020 , 11, 2386 | 15 |
| 670 | Prebiotics effects in vitro of polysaccharides from tea flowers on gut microbiota of healthy persons and patients with inflammatory bowel disease. 2020 , 158, 968-976 | 17 |
| 669 | Ethnic diversity in infant gut microbiota is apparent before the introduction of complementary diets. 2020 , 11, 1362-1373 | 12 |
| 668 | Indonesian children fecal microbiome from birth until weaning was different from microbiomes of their mothers. 2020 , 12, 1761240 | 11 |
| 667 | Rhizosphere microbiome functional diversity and pathogen invasion resistance build up during plant development. 2020 , 22, 5005-5018 | 19 |
| 666 | Interaction between microbiota and immunity in health and disease. 2020 , 30, 492-506 | 580 |
| 665 | Human Gut Microbiome Aging Clock Based on Taxonomic Profiling and Deep Learning. 2020 , 23, 101199 | 44 |
| 664 | Correlation and association analyses in microbiome study integrating multiomics in health and disease. 2020 , 171, 309-491 | 24 |
| 663 | In Vitro Fermentation of Sheep and Cow Milk Using Infant Fecal Bacteria. 2020 , 12, | 3 |
| 662 | Fat-Shaped Microbiota Affects Lipid Metabolism, Liver Steatosis, and Intestinal Homeostasis in Mice Fed a Low-Protein Diet. 2020 , 64, e1900835 | 7 |
| 661 | Subspecies () in Pediatric Nutrition: Current State of Knowledge. 2020 , 12, | 15 |
| 660 | Differences in Compositions of Gut Bacterial Populations and Bacteriophages in 5-11 Year-Olds Born Preterm Compared to Full Term. 2020 , 10, 276 | 6 |
| 659 | Microbiota and Lifestyle: A Special Focus on Diet. 2020 , 12, | 42 |

| | | |
|-----|---|----|
| 658 | Maternal and infant factors that shape neonatal gut colonization by bacteria. 2020 , 14, 651-664 | 4 |
| 657 | Different Roles of Environmental Selection, Dispersal, and Drift in the Assembly of Intestinal Microbial Communities of Freshwater Fish With and Without a Stomach. 2020 , 8, | 5 |
| 656 | Links between Nutrition, Infectious Diseases, and Microbiota: Emerging Technologies and Opportunities for Human-Focused Research. 2020 , 12, | 9 |
| 655 | Timing of complementary feeding is associated with gut microbiota diversity and composition and short chain fatty acid concentrations over the first year of life. 2020 , 20, 56 | 32 |
| 654 | The Response of the Gut Microbiota to Dietary Changes in the First Two Years of Life. 2020 , 11, 334 | 15 |
| 653 | The association between breastmilk oligosaccharides and faecal microbiota in healthy breastfed infants at two, six, and twelve weeks of age. 2020 , 10, 4270 | 37 |
| 652 | The Application of Metabolomics to Probiotic and Prebiotic Interventions in Human Clinical Studies. 2020 , 10, | 7 |
| 651 | An Integrated Multi-Disciplinary Perspective for Addressing Challenges of the Human Gut Microbiome. 2020 , 10, | 7 |
| 650 | The gut microbiome in Parkinson's disease: A culprit or a bystander?. 2020 , 252, 357-450 | 27 |
| 649 | Development and Functions of the Infant Gut Microflora: Western . Indian Infants. 2020 , 2020, 7586264 | 2 |
| 648 | Neonatal gut microbiome and immunity. 2020 , 56, 30-37 | 23 |
| 647 | Challenges and emerging systems biology approaches to discover how the human gut microbiome impact host physiology. 2020 , 12, 851-863 | 5 |
| 646 | Interaction of dietary polyphenols and gut microbiota: Microbial metabolism of polyphenols, influence on the gut microbiota, and implications on host health. 2020 , 1, 109-133 | 74 |
| 645 | Exposure to chemicals formed from natural processes is ubiquitous. 2020 , 4, 239784732092294 | |
| 644 | Considering the Microbiome in Stress-Related and Neurodevelopmental Trajectories to Schizophrenia. 2020 , 11, 629 | 7 |
| 643 | Gut microbiota: A target for heavy metal toxicity and a probiotic protective strategy. 2020 , 742, 140429 | 48 |
| 642 | Examination of Carbohydrate Products in Feces Reveals Potential Biomarkers Distinguishing Exclusive and Nonexclusive Breastfeeding Practices in Infants. 2020 , 150, 1051-1057 | |
| 641 | Gut microbiota composition during infancy and subsequent behavioural outcomes. 2020 , 52, 102640 | 23 |

| | | |
|-----|--|----|
| 640 | A phylogenetic model for the recruitment of species into microbial communities and application to studies of the human microbiome. 2020 , 14, 1359-1368 | 12 |
| 639 | Temporal dynamics of earthworm (<i>Eisenia fetida</i>) microbial communities after cadmium stress based on a compound mathematical model. 2020 , 27, 16326-16338 | 5 |
| 638 | Bacteriophages Isolated from Stunted Children Can Regulate Gut Bacterial Communities in an Age-Specific Manner. 2020 , 27, 199-212.e5 | 48 |
| 637 | Developing infant gut microflora and complementary nutrition. 2020 , 50, 384-396 | 2 |
| 636 | Autism Spectrum Disorder as a Brain-Gut-Microbiome Axis Disorder. 2020 , 65, 818-828 | 31 |
| 635 | High levels of fucosylation and sialylation of milk N-glycans from mothers with gestational diabetes mellitus alter the offspring gut microbiome and immune balance in mice. 2020 , 34, 3715-3731 | 5 |
| 634 | Beyond Our Genes. 2020 , | 1 |
| 633 | Fecal metatranscriptomics and glycomics suggest that bovine milk oligosaccharides are fully utilized by healthy adults. 2020 , 79, 108340 | 5 |
| 632 | Microbial Degradation of Zearalenone by a Novel Microbial Consortium, NZDC-6, and Its Application on Contaminated Corncob by Semisolid Fermentation. 2020 , 68, 1634-1644 | 3 |
| 631 | Microbiome Composition in Pediatric Populations from Birth to Adolescence: Impact of Diet and Prebiotic and Probiotic Interventions. 2020 , 65, 706-722 | 37 |
| 630 | Effects of Early Intervention with Antibiotics and Maternal Fecal Microbiota on Transcriptomic Profiling Ileal Mucosa in Neonatal Pigs. 2020 , 9, | 3 |
| 629 | The Epigenetic Connection Between the Gut Microbiome in Obesity and Diabetes. 2019 , 10, 1329 | 50 |
| 628 | Gut Microbiome as a Potential Factor for Modulating Resistance to Cancer Immunotherapy. 2019 , 10, 2989 | 47 |
| 627 | The infant gut microbiome as a microbial organ influencing host well-being. 2020 , 46, 16 | 49 |
| 626 | 16S rRNA gene sequencing reveals the relationship between gut microbiota and ovarian development in the swimming crab <i>Portunus trituberculatus</i> . 2020 , 254, 126891 | 10 |
| 625 | Oral microbiome: possible harbinger for children's health. 2020 , 12, 12 | 35 |
| 624 | Evolution of the Gut Microbiome in Early Childhood: A Cross-Sectional Study of Chinese Children. 2020 , 11, 439 | 18 |
| 623 | Gut microbiota derived metabolites contribute to intestinal barrier maturation at the suckling-to-weaning transition. 2020 , 11, 1268-1286 | 37 |

| | | |
|-----|--|----|
| 622 | Human behavior, not race or geography, is the strongest predictor of microbial succession in the gut bacteriome of infants. 2020 , 11, 1143-1171 | 8 |
| 621 | Intestinal Flora and Disease Mutually Shape the Regional Immune System in the Intestinal Tract. 2020 , 11, 575 | 34 |
| 620 | Understanding the Elements of Maternal Protection from Systemic Bacterial Infections during Early Life. 2020 , 12, | 3 |
| 619 | Neonatal diet alters fecal microbiota and metabolome profiles at different ages in infants fed breast milk or formula. 2020 , 111, 1190-1202 | 19 |
| 618 | Early-Life Gut Microbiome-The Importance of Maternal and Infant Factors in Its Establishment. 2020 , 35, 386-405 | 24 |
| 617 | Role of Microbiome and Antibiotics in Autoimmune Diseases. 2020 , 35, 406-416 | 15 |
| 616 | Prenatal and postnatal determinants in shaping offspring's microbiome in the first 1000 days: study protocol and preliminary results at one month of life. 2020 , 46, 45 | 15 |
| 615 | Editorial: Infection-Related Immune-Mediated Diseases and Microbiota. 2020 , 8, 108 | 4 |
| 614 | Inflammatory bowel disease: A key role for microbiota?. 2020 , 25, 100713 | 5 |
| 613 | Stochasticity in microbiology: managing unpredictability to reach the Sustainable Development Goals. 2020 , 13, 829-843 | 9 |
| 612 | UCC2003 Exopolysaccharide Modulates the Early Life Microbiota by Acting as a Potential Dietary Substrate. 2020 , 12, | 8 |
| 611 | Clinical Management of the Microbiome in Irritable Bowel Syndrome. 2021 , 4, 36-43 | 8 |
| 610 | Age-related changes in intestinal immunity and the microbiome. 2021 , 109, 1045-1061 | 9 |
| 609 | Dietary pattern, colonic microbiota and immunometabolism interaction: new frontiers for diabetes mellitus and related disorders. 2021 , 38, e14415 | 13 |
| 608 | IBDs and the pediatric age: Their peculiarities and the involvement of the microbiota. 2021 , 53, 17-25 | 2 |
| 607 | Investigating the gut microbial community and genes in children with differing levels of change in serum asparaginase activity during pegaspargase treatment for acute lymphoblastic leukemia. 2021 , 62, 927-936 | 1 |
| 606 | Aging, Frailty, and the Microbiome-How Dysbiosis Influences Human Aging and Disease. 2021 , 160, 507-523 | 16 |
| 605 | Age Patterning in Wild Chimpanzee Gut Microbiota Diversity Reveals Differences from Humans in Early Life. 2021 , 31, 613-620.e3 | 11 |

| | | |
|-----|---|----|
| 604 | Cross-feeding between and on lactose and human milk oligosaccharides. 2021 , 12, 69-83 | 8 |
| 603 | The intestinal microbiome of Australian abalone, <i>Haliotis laevigata</i> and <i>Haliotis laevigata</i> [Haliotis rubra, over a 1-year period in aquaculture.. 2021 , 534, 736245 | 1 |
| 602 | First permanent molars with accentuated line patterns: Assessment of childhood health in an urban complex of the fifth millennium before the present. 2021 , 123, 104969 | |
| 601 | The relationship between the oxidative stress reaction and the microbial community by a combinative method of PA and CCA. 2021 , 763, 143042 | 2 |
| 600 | Major Depressive Disorder and gut microbiota - Association not causation. A scoping review. 2021 , 106, 110111 | 14 |
| 599 | The Microbiome in Health and Disease. 2021 , 232-246 | 1 |
| 598 | COVID-19 and the neonatal microbiome: will the pandemic cost infants their microbes?. 2021 , 13, 1-7 | 6 |
| 597 | Evidence for Differentiation of Colon Tissue Microbiota in Patients with and without Postoperative Hirschsprung's Associated Enterocolitis: A Pilot Study. 2021 , 24, 30-37 | 2 |
| 596 | Phageome Analysis of Bifidobacteria-Rich Samples. 2021 , 2278, 71-85 | |
| 595 | Hologenomics: The Interaction Between Host, Microbiome and Diet. 2021 , 212-228 | 1 |
| 594 | Infant gut strain persistence is associated with maternal origin, phylogeny, and functional potential including surface adhesion and iron acquisition. | 3 |
| 593 | The Gut Microbiome in Serious Mental Illnesses. 2021 , 243-263 | |
| 592 | Microbial Diversity and Classification. 2021 , | |
| 591 | The inflammation during colorectal cancer: A friend or a foe?. 2021 , 103-129 | 0 |
| 590 | The Microbiome-Gut-Brain Axis: A New Window to View the Impact of Prenatal Stress on Early Neurodevelopment. 2021 , 165-191 | |
| 589 | Microorganisms. 2021 , 11-21 | |
| 588 | Early life gut microbiota is associated with rapid infant growth in Hispanics from Southern California. 2021 , 13, 1961203 | 6 |
| 587 | Early Life Microbiota Impact of Delivery Mode and Infant Feeding. 2021 , 25-25 | 1 |

- 586 Modification of the gut microbiome in an attempt to reduce the risk of child disease: Clinical data from prenatal interventions. **2021**, 269-286
- 585 Regulation of oral antigen delivery early in life: Implications for oral tolerance and food allergy. **2021**, 51, 518-526 3
- 584 Human Milk Oligosaccharides and Microbiome Homeostasis. **2021**, 372-388
- 583 The "weanling's dilemma" revisited: Evolving bodies of evidence and the problem of infant paleodietary interpretation. **2021**, 175 Suppl 72, 57-78 2
- 582 Gut microbiota: Implications on human health and diseases. **2021**, 1-27 1
- 581 The Gut Microbiome in Pediatrics. **2021**, 32-39.e3
- 580 Gut Microbiome, Diabetes, and Obesity: Complex Interplay of Physiology. **2021**, 169-181
- 579 The compositional development of the microbiome in early life. **2021**, 177-195 0
- 578 Bone and the microbiome. **2021**, 969-988
- 577 Comparison of gut microbiota structure and Actinobacteria abundances in healthy young adults and elderly subjects: a pilot study. **2021**, 21, 13 4
- 576 Diversity-Function Relationships and the Underlying Ecological Mechanisms in Host-Associated Microbial Communities. **2021**, 297-326
- 575 Characterization of the gut DNA and RNA Viromes in a Cohort of Chinese Residents and Visiting Pakistanis. **2021**, 7, veab022 3
- 574 Microbiota in utero? When and Where Microbial Establishment Starts?. **2021**, 13-13
- 573 Interplay of Good Bacteria and Central Nervous System: Cognitive Aspects and Mechanistic Considerations. **2021**, 15, 613120 16
- 572 The Multiomics Analyses of Fecal Matrix and Its Significance to Coeliac Disease Gut Profiling. **2021**, 22, 1
- 571 IL-22 promotes the formation of a MUC17 glyocalyx barrier in the postnatal small intestine during weaning. **2021**, 34, 108757 6
- 570 Gut Microbiome: A Potential Modifiable Risk Factor in Biliary Atresia. **2021**, 72, 184-193 5
- 569 Constipation: A real problem in pregnancy. 1, 33-38

| | | |
|-----|--|----|
| 568 | Multiomics analysis reveals the presence of a microbiome in the gut of fetal lambs. 2021 , 70, 853-864 | 19 |
| 567 | Changes in the gut microbial community of the eastern newt (<i>Notophthalmus viridescens</i>) across its three distinct life stages. 2021 , 97, | 1 |
| 566 | The intervention of unique plant polysaccharides - Dietary fiber on depression from the gut-brain axis. 2021 , 170, 336-342 | 8 |
| 565 | Metagenomic analysis of the gut microbiome composition associated with vitamin D supplementation in Taiwanese infants. 2021 , 11, 2856 | 4 |
| 564 | Is Metagenomic Analysis an Effective Way to Analyze Fish Feeding Habits? A Case of the Yellowfin Sea Bream <i>Acanthopagrus latus</i> (Houttuyn) in Daya Bay. 8, | 0 |
| 563 | Antimicrobial Prophylaxis and Modifications of the Gut Microbiota in Children with Cancer. 2021 , 10, | 2 |
| 562 | Gut microbiota development during infancy: Impact of introducing allergenic foods. 2021 , 147, 613-621.e9 | 10 |
| 561 | Ecological rules for the assembly of microbiome communities. 2021 , 19, e3001116 | 11 |
| 560 | The Development of Early Life Microbiota in Human Health and Disease. 2021 , | |
| 559 | Insights into the Impact of Microbiota in the Treatment of NAFLD/NASH and Its Potential as a Biomarker for Prognosis and Diagnosis. 2021 , 9, | 7 |
| 558 | Age and sex-associated variation in the multi-site microbiome of an entire social group of free-ranging rhesus macaques. 2021 , 9, 68 | 11 |
| 557 | What can we expect from emerging technologies in microbiome era?. 2021 , 33, | 0 |
| 556 | The Role of Enterobacteriaceae in Gut Microbiota Dysbiosis in Inflammatory Bowel Diseases. 2021 , 9, | 23 |
| 555 | Key bacterial taxa and metabolic pathways affecting gut short-chain fatty acid profiles in early life. 2021 , 15, 2574-2590 | 31 |
| 554 | Paediatric Inflammatory Bowel Disease and its Relationship with the Microbiome. 2021 , 82, 833-844 | 2 |
| 553 | Microbiota, renal disease and renal transplantation. 2021 , 11, 16-36 | 3 |
| 552 | Toward a Generalizable Framework of Disturbance Ecology Through Crowdsourced Science. 2021 , 9, | 11 |
| 551 | Groundwater bacterial communities evolve over time, exhibiting oscillating similarity patterns in response to recharge. | |

| | | |
|-----|--|----|
| 550 | Wastewater treatment works change the intestinal microbiomes of insectivorous bats. 2021 , 16, e0247475 | 1 |
| 549 | Gut microbiome and Mediterranean diet in the context of obesity. Current knowledge, perspectives and potential therapeutic targets. 2021 , 9, 100081 | 11 |
| 548 | The Life-Long Role of Nutrition on the Gut Microbiome and Gastrointestinal Disease. 2021 , 50, 77-100 | 2 |
| 547 | Adaptive ecological processes and metabolic independence drive microbial colonization and resilience in the human gut. | 7 |
| 546 | Gut microbiota in nonalcoholic fatty liver diseases with and without type-2 diabetes mellitus. 2021 , | 7 |
| 545 | Association Between the Mode of Delivery and Infant Gut Microbiota Composition Up to 6 Months of Age: A Systematic Literature Review Considering the Role of Breastfeeding. 2021 , 80, 113-127 | 3 |
| 544 | Intrauterine Hypoxia Changed the Colonization of the Gut Microbiota in Newborn Rats. 2021 , 9, 675022 | 3 |
| 543 | Gene-Phenotype Associations Involving Human-Residential Bifidobacteria (HRB) Reveal Significant Species- and Strain-Specificity in Carbohydrate Catabolism. 2021 , 9, | 1 |
| 542 | Effects of dietary fibers, micronutrients, and phytonutrients on gut microbiome: a review. 2021 , 64, | 2 |
| 541 | Bovine Milk Oligosaccharides and Human Milk Oligosaccharides Modulate the Gut Microbiota Composition and Volatile Fatty Acid Concentrations in a Preclinical Neonatal Model. 2021 , 9, | 4 |
| 540 | How biological sex of the host shapes its gut microbiota. 2021 , 61, 100912 | 18 |
| 539 | Effects of Whole-Grain and Sugar Content in Infant Cereals on Gut Microbiota at Weaning: A Randomized Trial. 2021 , 13, | 1 |
| 538 | Global climate change, diet, and the complex relationship between human host and microbiome: Towards an integrated picture. 2021 , 43, e2100049 | 3 |
| 537 | A Healthy Gut for a Healthy Brain: Preclinical, Clinical and Regulatory Aspects. 2021 , 19, 610-628 | 7 |
| 536 | A Comparative Pilot Study of Bacterial and Fungal Dysbiosis in Neurodevelopmental Disorders and Gastrointestinal Disorders: Commonalities, Specificities and Correlations with Lifestyle. 2021 , 9, | 1 |
| 535 | Human Milk Microbiota in an Indigenous Population Is Associated with Maternal Factors, Stage of Lactation, and Breastfeeding Practices. 2021 , 5, nzab013 | 1 |
| 534 | The Microbiota-Gut-Brain Axis: From Motility to Mood. 2021 , 160, 1486-1501 | 69 |
| 533 | Investigating colonization patterns of the infant gut microbiome during the introduction of solid food and weaning from breastmilk: A cohort study protocol. 2021 , 16, e0248924 | 3 |

| | | |
|-----|---|---------|
| 532 | Neurodevelopment correlates with gut microbiota in a cross-sectional analysis of children at 3 years of age in rural China. 2021 , 11, 7384 | 2 |
| 531 | SW178 sp. nov., an intestinal bacterium of feral chicken. 2021 , 9, e11050 | 0 |
| 530 | Microbiota, Epigenetics, and Trained Immunity. Convergent Drivers and Mediators of the Asthma Trajectory from Pregnancy to Childhood. 2021 , 203, 802-808 | 10 |
| 529 | Evolutionary Significance of the Neuroendocrine Stress Axis on Vertebrate Immunity and the Influence of the Microbiome on Early-Life Stress Regulation and Health Outcomes. 2021 , 12, 634539 | 7 |
| 528 | Do Antibiotics Cause Obesity Through Long-term Alterations in the Gut Microbiome? A Review of Current Evidence. 2021 , 10, 244-262 | 11 |
| 527 | Developmental trajectory of the healthy human gut microbiota during the first 5 years of life. 2021 , 29, 765-776.e3 | 55 |
| 526 | Proteobacteria abundance during nursing predicts physical growth and brain volume at one year of age in young rhesus monkeys. 2021 , 35, e21682 | 1 |
| 525 | Early life stress in mice alters gut microbiota independent of maternal microbiota inheritance. 2021 , 320, R663-R674 | 3 |
| 524 | Gut microbiota profiles of young South Indian children: Child sex-specific relations with growth. 2021 , 16, e0251803 | 0 |
| 523 | Evolving Interplay Between Dietary Polyphenols and Gut Microbiota-An Emerging Importance in Healthcare. 2021 , 8, 634944 | 12 |
| 522 | Megasphaera in the Stool Microbiota Is Negatively Associated With Diarrheal Cryptosporidiosis. 2021 , 73, e1242-e1251 | 8 |
| 521 | Gut Microbiota, in the Halfway between Nutrition and Lung Function. 2021 , 13, | 12 |
| 520 | Maternal Microbiota, Early Life Colonization and Breast Milk Drive Immune Development in the Newborn. 2021 , 12, 683022 | 10 |
| 519 | Microbial Glycoside Hydrolases in the First Year of Life: An Analysis Review on Their Presence and Importance in Infant Gut. 2021 , 12, 631282 | 5 |
| 518 | Developmental intestinal microbiome alterations in canine fading puppy syndrome: a prospective observational study. 2021 , 7, 52 | 2 |
| 517 | Infant gut microbiome composition is associated with non-social fear behavior in a pilot study. 2021 , 12, 3294 | 10 |
| 516 | A catalog of tens of thousands of viruses from human metagenomes reveals hidden associations with chronic diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118, | 11,5 22 |
| 515 | Successional Stages in Infant Gut Microbiota Maturation. | 2 |

| | | |
|-----|--|---|
| 514 | Association and Occurrence of Bifidobacterial Phylotypes Between Breast Milk and Fecal Microbiomes in Mother-Infant Dyads During the First 2 Years of Life. 2021 , 12, 669442 | 3 |
| 513 | Perinatal Nutritional and Metabolic Pathways: Early Origins of Chronic Lung Diseases. 2021 , 8, 667315 | 3 |
| 512 | New Insights Into Microbiota Modulation-Based Nutritional Interventions for Neurodevelopmental Outcomes in Preterm Infants. 2021 , 12, 676622 | 3 |
| 511 | Role of the Gut Microbiota in Regulating Non-alcoholic Fatty Liver Disease in Children and Adolescents. 2021 , 8, 700058 | 6 |
| 510 | Microbiome profiles are associated with cognitive functioning in 45-month-old children. | |
| 509 | Gut microbiota mediates cognitive impairment in young mice after multiple neonatal exposures to sevoflurane. 2021 , 13, 16733-16748 | 1 |
| 508 | Gut microbiota-microRNA interactions in ankylosing spondylitis. 2021 , 20, 102827 | 3 |
| 507 | Prophages in the infant gut are largely induced, and may be functionally relevant to their hosts. | 3 |
| 506 | Neonatal Immune System Ontogeny: The Role of Maternal Microbiota and Associated Factors. How Might the Non-Human Primate Model Enlighten the Path?. 2021 , 9, | 2 |
| 505 | The microbiome: A heritable contributor to bone morphology?. 2021 , | 2 |
| 504 | Infants' First Solid Foods: Impact on Gut Microbiota Development in Two Intercontinental Cohorts. 2021 , 13, | 3 |
| 503 | Dietary Selection Pressures and Their Impact on the Gut Microbiome. 2021 , 13, 7-18 | 5 |
| 502 | Nutritional Interventions and the Gut Microbiome in Children. 2021 , 41, 479-510 | 5 |
| 501 | Multifaceted Impacts of Periodontal Pathogens in Disorders of the Intestinal Barrier. 2021 , 12, 693479 | 1 |
| 500 | Longitudinal Characterization of the Gut Bacterial and Fungal Communities in Yaks. 2021 , 7, | 2 |
| 499 | Bacterial and Fungal Gut Community Dynamics Over the First 5 Years of Life in Predominantly Rural Communities in Ghana. 2021 , 12, 664407 | 0 |
| 498 | Maternal effects in mammals: Broadening our understanding of offspring programming. 2021 , 62, 100924 | 5 |
| 497 | Phages in the infant gut: a framework for virome development during early life. 2021 , | 5 |

| | | |
|-----|--|----|
| 496 | Malnutrition and Gut Microbiota in Children. 2021 , 13, | 9 |
| 495 | Associations between the gut microbiome and metabolome in early life. 2021 , 21, 238 | 3 |
| 494 | Microbiomes and Childhood Malnutrition: What Is the Evidence?. 2021 , 1-13 | 0 |
| 493 | Novel insights on gut microbiota manipulation and immune checkpoint inhibition in cancer (Review). 2021 , 59, | 4 |
| 492 | Groundwater bacterial communities evolve over time in response to recharge. 2021 , 201, 117290 | 6 |
| 491 | Influence of gut microbiome on the human physiology. 1 | 1 |
| 490 | How Early-Life Gut Microbiota Alteration Sets Trajectories for Health and Inflammatory Bowel Disease?. 2021 , 8, 690073 | 2 |
| 489 | Association between clinical and environmental factors and the gut microbiota profiles in young South African children. 2021 , 11, 15895 | 0 |
| 488 | Individuals with substance use disorders have a distinct oral microbiome pattern. 2021 , 15, 100271 | 3 |
| 487 | The oral microbiome: Role of key organisms and complex networks in oral health and disease. 2021 , 87, 107-131 | 41 |
| 486 | A Modern-World View of Host-Microbiota-Pathogen Interactions. 2021 , 207, 1710-1718 | 3 |
| 485 | The Many Faces of spp.-Commensal, Probiotic and Opportunistic Pathogen. 2021 , 9, | 9 |
| 484 | Infant gut strain persistence is associated with maternal origin, phylogeny, and traits including surface adhesion and iron acquisition. 2021 , 2, 100393 | 8 |
| 483 | The Gut Microbiome of Youth Who Have Behavioral and Mental Health Problems: A Scoping Review. | |
| 482 | The Endocannabinoid System: A Bridge between Alzheimer's Disease and Gut Microbiota. 2021 , 11, | 3 |
| 481 | Modern opportunities of pharmacological effect on gut microbiome and motor activity. 2021 , 200-208 | |
| 480 | Building Robust Assemblages of Bacteria in the Human Gut in Early Life. 2021 , 87, e0144921 | 5 |
| 479 | Social groups constrain the spatiotemporal dynamics of wild sifaka gut microbiomes. 2021 , 30, 6759-6775 | 3 |

| | | |
|-----|---|----|
| 478 | Single-Cell Transcriptome Sequencing and Proteomics Reveal Neonatal Ileum Dynamic Developmental Potentials. 2021 , 6, e0072521 | 0 |
| 477 | Intestinal microbiota profiles in infants with acute gastroenteritis caused by rotavirus and norovirus infection: a prospective cohort study. 2021 , 111, 76-84 | 2 |
| 476 | The role of the pediatric cutaneous and gut microbiomes in childhood disease: A review. 2021 , 45, 151452 | 1 |
| 475 | Relationship between sleep disorders and gut dysbiosis: what affects what?. 2021 , 87, 1-7 | 5 |
| 474 | Microbiome profiles are associated with cognitive functioning in 45-month-old children. 2021 , 98, 151-160 | 3 |
| 473 | Gut Bacterial Dysbiosis and Its Clinical Implications. 2021 , 1-27 | |
| 472 | Gut microbiota and the immune system and inflammation. 2021 , 311-333 | |
| 471 | The Impact of Gut Microbiota on the Immune Response to Vaccination. 2021 , 145-145 | |
| 470 | The gut microbiome in neurodegenerative disorders. 2021 , 101-121 | |
| 469 | Gut microbial composition of elderly women born in the Japanese longevity village Ogimi. 2021 , 40, 75-79 | 0 |
| 468 | Characterization of intestinal microbiota and fecal cortisol, T3, and IgA in forest musk deer (<i>Moschus berezovskii</i>) from birth to weaning. 2021 , 16, 300-312 | 3 |
| 467 | Impact of delivery mode in early life microbiome and risk of disease. 2021 , 109-133 | |
| 466 | Microbes, human milk, and prebiotics. 2021 , 197-237 | 0 |
| 465 | Feeding practices of infants. 2021 , 57-86 | |
| 464 | Enhancing Pathogen Resistance: The Gut Microbiota and Malaria. 2021 , 143-143 | 0 |
| 463 | Das menschliche Mikrobiom. 2021 , 897-908 | |
| 462 | Maternal exposures and the infant gut microbiome: a systematic review with meta-analysis. 2021 , 13, 1-30 | 19 |
| 461 | Maternal n-3 polyunsaturated fatty acids restructure gut microbiota of offspring mice and decrease their susceptibility to mammary gland cancer. 2021 , 12, 8154-8168 | 1 |

| | | |
|-----|--|----|
| 460 | Evolution of gut Bifidobacterium population in healthy Japanese infants over the first three years of life: a quantitative assessment. 2017 , 7, | 1 |
| 459 | Microbiome of Barrier Organs in Allergy: Who Runs the World? Germs!. 2022 , 268, 53-65 | 1 |
| 458 | The Commensal Microbiota. 2012 , 3-11 | 3 |
| 457 | The Ecology of Breastfeeding and Mother-Infant Immune Functions. 2020 , 85-101 | 2 |
| 456 | Early Gut Microbiome: A Good Start in Nutrition and Growth May Have Lifelong Lasting Consequences. 2019 , 239-258 | 2 |
| 455 | The Gut Microbiota and Inflammatory Bowel Disease. 2017 , 45-54 | 5 |
| 454 | Probiotics and Prebiotics for the Health of Pigs and Horses. 2018 , 109-126 | 2 |
| 453 | The New Antigenic Ecospace of the Globalized World and its Impact on the Immune System: The Battleground of Trade-off and Antagonistic Pleiotropy. 2014 , 125-144 | 1 |
| 452 | Lactic Acid Bacteria and the Human Gastrointestinal Tract. 2014 , 375-441 | 1 |
| 451 | Invasions of Host-Associated Microbiome Networks. 2017 , 201-281 | 12 |
| 450 | Gut microbiome and multiple sclerosis: New insights and perspective. 2020 , 88, 107024 | 10 |
| 449 | The prevalence and risk factors of atopic dermatitis in 6-8 year-old first graders in Taipei. 2019 , 60, 166-171 | 5 |
| 448 | Gut microbiota and aging. 2020 , 1-56 | 5 |
| 447 | Necrotizing Enterocolitis and the Microbiome: Current Status and Future Directions. 2021 , 223, S257-S263 | 3 |
| 446 | Hierarchical social networks shape gut microbial composition in wild Verreaux's sifaka. 2017 , 284, | 50 |
| 445 | An overview of the bacterial contribution to Crohn disease pathogenesis. 2016 , 65, 1049-1059 | 38 |
| 444 | Metabolic networks of the human gut microbiota. 2020 , 166, 96-119 | 13 |
| 443 | The power and pitfalls of Dirichlet-multinomial mixture models for ecological count data. | 8 |

| | | |
|-----|---|----|
| 442 | Longitudinal differential abundance analysis of microbial marker-gene surveys using smoothing splines. | 12 |
| 441 | Modifying and reacting to the environmental pH drives bacterial interactions. | 5 |
| 440 | <i>Bifidobacterium breve</i> UCC2003 exopolysaccharide modulates the early life microbiota by acting as a dietary substrate. | 0 |
| 439 | Gut microbes and their genes are associated with brain development and cognitive function in healthy children. | 1 |
| 438 | Succession of <i>Bifidobacterium longum</i> strains in response to the changing early-life nutritional environment reveals specific adaptations to distinct dietary substrates. | 0 |
| 437 | Children Developing Celiac Disease Have a Distinct and Proinflammatory Gut Microbiota in the First 5 Years of Life. | 3 |
| 436 | Bacterial modification of the host glycosaminoglycan heparan sulfate modulates SARS-CoV-2 infectivity. 2020 , | 14 |
| 435 | A New Comprehensive Catalog of the Human Virome Reveals Hidden Associations with Chronic Diseases. | 0 |
| 434 | Antenatal microbial colonisation of mammalian gut. | 1 |
| 433 | The development of gut microbiota in ostriches and its association with juvenile growth. | 4 |
| 432 | Dynamic linear models guide design and analysis of microbiota studies within artificial human guts. | 2 |
| 431 | ARGs-OSP: online searching platform for antibiotic resistance genes distribution in metagenomic database and bacterial whole genome database. | 3 |
| 430 | Social relationships, social isolation, and the human gut microbiota. | 2 |
| 429 | Cooperation Enhances Robustness of Coexistence in Spatially Structured Consortia. | 2 |
| 428 | Functional potential of bacterial strains in the premature infant gut microbiome is associated with gestational age. | 2 |
| 427 | Age and sex-dependent patterns of gut microbial diversity in human adults. | 1 |
| 426 | Metabolic cross-feeding allows a gut microbial community to overcome detrimental diets and alter host behaviour. | 2 |
| 425 | Dynamic Bayesian networks for integrating multi-omics time-series microbiome data. | 1 |

| | | |
|-----|--|-----|
| 424 | Gut microbiota metagenomics in aquaculture: factors influencing gut microbiome and its physiological role in fish. 2020 , 12, 1903 | 38 |
| 423 | Interkingdom Ecological Interactions of Carrion Decomposition. 2015 , 448-475 | 3 |
| 422 | Soil is a key factor influencing gut microbiota and its effect is comparable to that exerted by diet for mice. 7, 1588 | 7 |
| 421 | Early and frequent exposure to antibiotics in children and the risk of obesity: systematic review and meta-analysis of observational studies. 2020 , 9, 711 | 1 |
| 420 | Stochastic colonization of hosts with a finite lifespan can drive individual host microbes out of equilibrium. 2020 , 16, e1008392 | 2 |
| 419 | Resources and costs for microbial sequence analysis evaluated using virtual machines and cloud computing. 2011 , 6, e26624 | 58 |
| 418 | 454 pyrosequencing analysis on faecal samples from a randomized DBPC trial of colicky infants treated with <i>Lactobacillus reuteri</i> DSM 17938. 2013 , 8, e56710 | 71 |
| 417 | Pediatric fecal microbiota harbor diverse and novel antibiotic resistance genes. 2013 , 8, e78822 | 116 |
| 416 | Development of HuMiChip for functional profiling of human microbiomes. 2014 , 9, e90546 | 13 |
| 415 | Mucosa-associated bacterial diversity in necrotizing enterocolitis. 2014 , 9, e105046 | 60 |
| 414 | Rumen bacterial diversity of 80 to 110-day-old goats using 16S rRNA sequencing. 2015 , 10, e0117811 | 52 |
| 413 | Long Term Development of Gut Microbiota Composition in Atopic Children: Impact of Probiotics. 2015 , 10, e0137681 | 38 |
| 412 | Early-Life Events, Including Mode of Delivery and Type of Feeding, Siblings and Gender, Shape the Developing Gut Microbiota. 2016 , 11, e0158498 | 236 |
| 411 | Using Dendritic Heat Maps to Simultaneously Display Genotype Divergence with Phenotype Divergence. 2016 , 11, e0161292 | 5 |
| 410 | Characterisation of Early-Life Fecal Microbiota in Susceptible and Healthy Pigs to Post-Weaning Diarrhoea. 2017 , 12, e0169851 | 107 |
| 409 | Characterization of the fecal microbiome during neonatal and early pediatric development in puppies. 2017 , 12, e0175718 | 26 |
| 408 | A 3-dimensional mathematical model of microbial proliferation that generates the characteristic cumulative relative abundance distributions in gut microbiomes. 2017 , 12, e0180863 | 4 |
| 407 | How Knowledge on Microbiota may be Helpful to Establish an Optimal Diet for Health Maintenance. 2018 , 3, 6-12 | 2 |

| | | |
|-----|--|-----|
| 406 | Dysbiosis of gut microbiota in inflammatory bowel disease: Current therapies and potential for microbiota-modulating therapeutic approaches. 2021 , 21, 270-283 | 8 |
| 405 | Early-life vancomycin treatment promotes airway inflammation and impairs microbiome homeostasis. 2019 , 11, 2071-2081 | 8 |
| 404 | The gut microbiota in neuropsychiatric disorders. 2018 , 78, 69-81 | 31 |
| 403 | The impact of intestinal microbiota on bio-medical research: definitions, techniques and physiology of a "new frontier". 2018 , 89, 52-59 | 7 |
| 402 | MICROBIOTA-GUT-BRAIN SIGNALING: A MINIREVIEW. 2020 , 89, 41-51 | 2 |
| 401 | The mind-body-microbial continuum. 2011 , 13, 55-62 | 85 |
| 400 | The Role of Short-Chain Fatty Acids From Gut Microbiota in Gut-Brain Communication. 2020 , 11, 25 | 428 |
| 399 | Exploring the Ecology of Bifidobacteria and Their Genetic Adaptation to the Mammalian Gut. 2020 , 9, | 8 |
| 398 | Changes in the colon microbiota and intestinal cytokine gene expression following minimal intestinal surgery. 2015 , 21, 4150-8 | 26 |
| 397 | Healthy effects of prebiotics and their metabolites against intestinal diseases and colorectal cancer. 2015 , 1, 48-71 | 23 |
| 396 | Microbiome Study of Initial Gut Microbiota from Newborn Infants to Children Reveals that Diet Determines Its Compositional Development. 2020 , 30, 1067-1071 | 8 |
| 395 | Role of Intestinal Microbiota in Inflammatory Bowel Diseases. 2013 , 11, 161 | 2 |
| 394 | Bacterial colonization and intestinal mucosal barrier development. 2013 , 2, 46-53 | 29 |
| 393 | Type 2 diabetes mellitus-related environmental factors and the gut microbiota: emerging evidence and challenges. 2020 , 75, e1277 | 11 |
| 392 | The human gut and groundwater harbor non-photosynthetic bacteria belonging to a new candidate phylum sibling to Cyanobacteria. 2013 , 2, e01102 | 247 |
| 391 | Aging and serum MCP-1 are associated with gut microbiome composition in a murine model. 2016 , 4, e1854 | 59 |
| 390 | Salivary microbiomes of indigenous Tsimane mothers and infants are distinct despite frequent pre-mastication. 2016 , 4, e2660 | 13 |
| 389 | Ananke: temporal clustering reveals ecological dynamics of microbial communities. 2017 , 5, e3812 | 10 |

| | | |
|-----|---|---|
| 388 | Similarity of salivary microbiome in parents and adult children. 2020 , 8, e8799 | 5 |
| 387 | Changes in the gut microbiota during Asian particolored bat () development. 2020 , 8, e9003 | 2 |
| 386 | Faecal transplantation and Clostridioides difficile infection. 2021 , 52, 215-223 | |
| 385 | Neonatal Piglets Are Protected from Clostridioides difficile Infection by Age-Dependent Increase in Intestinal Microbial Diversity. 2021 , 9, e0124321 | 0 |
| 384 | Gut Microbiome and Alzheimer’s Disease. 2021 , 39, 94-103 | |
| 383 | Risk Factors for Gut Dysbiosis in Early Life. 2021 , 9, | 6 |
| 382 | The contrasting human gut microbiota in early and late life and implications for host health and disease. 2021 , 1-22 | 1 |
| 381 | Rapid methicillin resistance diversification in Staphylococcus epidermidis colonizing human neonates. 2021 , 12, 6062 | 1 |
| 380 | The Role of Microbiota in Infant Health: From Early Life to Adulthood. 2021 , 12, 708472 | 9 |
| 379 | Association of Cesarean Delivery and Formula Supplementation with the Stool Metabolome of 6-Week-Old Infants. 2021 , 11, | 1 |
| 378 | Nurturing the Early Life Gut Microbiome and Immune Maturation for Long Term Health. 2021 , 9, | 4 |
| 377 | Complementary Food Ingredients Alter Infant Gut Microbiome Composition and Metabolism In Vitro. 2021 , 9, | 0 |
| 376 | Impact of the ileal microbiota on colon cancer. 2021 , | 2 |
| 375 | The Role of Microbiota in the Development of Cancer Tumour Cells and Lymphoma of B and T Cells. 2021 , 13, e19047 | |
| 374 | SynTracker: a synteny based tool for tracking microbial strains. | 3 |
| 373 | Shaping the gut microbiota by bioactive phytochemicals: An emerging approach for the prevention and treatment of human diseases. 2021 , 193, 38-38 | 5 |
| 372 | Insights into Oropharyngeal Microbiota, Biofilms and Associated Diseases from Metagenomics and Transcriptomic Approaches. | |
| 371 | Alterations in children’s sub-dominant gut microbiota by HIV infection and anti-retroviral therapy. 2021 , 16, e0258226 | 0 |

- 370 Gut Microbiota, Obesity and Metabolic Dysfunction. **2011**, 3, 150
- 369 Encyclopedia of Metagenomics. **2012**, 1-6
- 368 Encyclopedia of Metagenomics. **2013**, 1-10
- 367 Encyclopedia of Metagenomics. **2013**, 1-7
- 366 Insights into the Human Microbiome from Animal Models. 273-288
- 365 Wastewater, wheat and table wipes: adventures in culture-independent microbiology. **2014**, 35, 188
- 364 Intestinal Microbial Community Profiles of a Newborn Preterm Infant Using Pyrosequencing Analysis: Pilot Study. **2014**, 21, 144
- 363 Pathophysiological responses from human gut microbiome. **2014**, 3, 133
- 362 Encyclopedia of Metagenomics. **2014**, 1-7
- 361 Gastrointestinal Tract. **2014**, 7-45
- 360 Metabonomics in Neonatal and Paediatric Research: Studying and Modulating Gut Functional Ecology for Optimal Growth and Development. **2015**, 125-146
- 359 The microbiome in rheumatic diseases. **2015**, 145-151
- 358 Gut Microbiome in the Critically Ill. **2015**, 169-184
- 357 The Aging Superorganism. **2016**, 265-290
- 356 Early Microbe Contact in Defining Child Metabolic Health and Obesity Risk. **2016**, 369-389
- 355 Potential Role of the Microbiome in the Development of Childhood Obesity. **2016**, 235-241
- 354 Linking the development and functioning of a carnivorous pitcher plant's microbial digestive community.
- 353 Microbiota: A Key for Healthy Aging. **2016**, 20, 168-176

- 352 Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium.
- 351 A Review on Bifidobacteria for Human Health. **2017**, 35, 73-83
- 350 Compositional shifts in the root microbiota track the life-cycle of field-grown rice plants.
- 349 Relationships between and formation dynamics of the microbiota of consumers, producers, and the environment in an abalone aquatic system. **2017**, 12, e0182590
- 348 Infant Weight Gain Trajectories Linked to Oral Microbiome Composition.
- 347 Gut Microbiota in Elderly Health. **2018**, 1-32
- 346 Modeling the temporal dynamics of the gut microbial community in adults and infants. 2
- 345 Endospores and other lysis-resistant bacteria comprise a widely shared core community within the human microbiota.
- 344 Growth and Life Course Health Development. **2018**, 405-429 0
- 343 Neonatal gut and respiratory microbiota: coordinated development through time and space.
- 342 Bifidobacterial key genetic factors for development of infant gut ecosystems. **2018**, 29, 19-25
- 341 Cross-feeding between *Bifidobacterium infantis* and *Anaerostipes caccae* on lactose and human milk oligosaccharides.
- 340 The role of gut microbiota in forming a response to immunotherapy of malignant neoplasms: problem state. **2018**, 128-133
- 339 Gut Microbial succession during conventionalization of germfree chicken. 0
- 338 Superior dispersal ability leads to persistent ecological dominance by *Candida pseudoglebosa* in the *Sarracenia purpurea* metacommunity.
- 337 Good Health and Well-Being. **2019**, 1-9
- 336 The Aging Gut Microbiota. **2019**, 285-307
- 335 Rice bran supplementation modulates growth, microbiome and metabolome in weaning infants: a clinical trial in Nicaragua and Mali.

- 334 Dietary Screening Questioning Adolescent Dietary Trends and Providing Evidence-Based Dietary Recommendations. **2019**, 21-32
- 333 The Gut Microbiome in Inflammatory Bowel Disease. **2019**, 347-377
- 332 Gut Microbiota in Elderly Health. **2019**, 2607-2638
- 331 Human Microbiome and Malignancy: Principles, Mechanisms, and Challenges. **2019**, 317-335
- 330 CHAPTER 14:Diet, Gut Microbiome and Multiple Sclerosis. **2019**, 302-326
- 329 Impacts of diets fed after weaning on gut microbiota and susceptibility to DSS-induced colitis in mice.
- 328 The enemy from within: a prophage of *Roseburia intestinalis* systematically turns lytic in the mouse gut, driving bacterial adaptation by CRISPR spacer acquisition. 2
- 327 Intestinal Microbiota and Allergy. Probiotics and Prebiotics in Prevention and Treatment of Allergic Diseases. **2019**, 16, 7-18 4
- 326 Community-level signatures of ecological succession in natural bacterial communities. 2
- 325 A phylogenetic model for the recruitment of species into microbial communities and application to studies of the human microbiome.
- 324 *Akkermansia muciniphila*: Obezite ve Diyabetten Korunmada Yeni Bir Alternatif Olabilir mi?. 533-543 0
- 323 Description of *Ruminococcus catenae* SW178 sp. nov., a new anaerobic species isolated from feral chicken.
- 322 Good Health and Well-Being. **2020**, 246-253
- 321 An accurate aging clock developed from the largest dataset of microbial and human gene expression reveals molecular mechanisms of aging. 0
- 320 Altering Early Life Gut Microbiota Has Long-Term Effect on Immune System and Hypertension in Spontaneously Hypertensive Rats. **2021**, 12, 752924 1
- 319 Microbiota and nanoparticles: Description and interactions. **2021**, 169, 220-240 1
- 318 Holobionts. **2020**, 93-101
- 317 Microbiome establishment and maturation: early life environmental factors. **2020**, 21-41

316 The indoor environment - a potential source for intact human-associated anaerobes.

315 Human milk oligosaccharides and infant gut microbiota: Molecular structures, utilization strategies and immune function. **2022**, 276, 118738 8

314 Gut Microbiota and Health. **2020**, 31-79

313 Future Perspectives in Epigenetic Inheritance. **2020**, 231-259 1

312 Skin microbiome and its role in human health and pathology. **2020**, 4, 16

311 Influence of Antimicrobials on the Gut Microbiota. **2020**, 53-79

310 Gut Microbiome and Its Role in Enteric Infections with Microbial Pathogens. **2020**, 187-208

309 Determinants of the Gut Microbiota. **2020**, 19-62

308 . **2021**, 5

307 Maternal effects on early-life gut microbiome maturation in a wild nonhuman primate. 1

306 Characterization of the gut DNA and RNA viromes in a cohort of Chinese residents and visiting Pakistanis.

305 Megasphaera in the stool microbiota is negatively associated with diarrheal cryptosporidiosis. 1

304 The Gut Microbiota: A Promising Target in the Relation between Complementary Feeding and Child Undernutrition. **2021**, 12, 969-979 3

303 Biotechnology of Plant-Associated Microbiomes. **2020**, 243-277

302 Shaping the (auto)immune response in the gut: the role of intestinal immune regulation in the prevention of type 1 diabetes. **2013**, 2, 156-71 23

301 Gut bacteria in health and disease. **2013**, 9, 560-9 101

300 Breathing Better Through Bugs: Asthma and the Microbiome. **2016**, 89, 309-324 13

299 The Hoops, Hopes, and Hypes of Human Microbiome Research. **2016**, 89, 363-373 23

| | | |
|-----|--|----|
| 298 | A Complementary Approach in the Analysis of the Human Gut Microbiome Applying Self-organizing Maps and Random Forest. 2021 , 97-110 | |
| 297 | Developmental Stage, Solid Food Introduction and Suckling Cessation Differentially Influence the Co-maturation of the Gut Microbiota and Intestinal Epithelium in Rabbits. 2021 , | 1 |
| 296 | Will intestinal flora therapy become a new target in type-2 diabetes mellitus? A review based on 13 clinical trials. 2021 , | 0 |
| 295 | Age-Dependent Intestinal Repair: Implications for Foals with Severe Colic.. 2021 , 11, | 0 |
| 294 | Dairy products as sources of methanogens for humans. | |
| 293 | Next steps after 15 stimulating years of human gut microbiome research. 2021 , 15, 164 | 2 |
| 292 | The Emerging Scenario of the Gut-Brain Axis: The Therapeutic Actions of the New Actor Kefir against Neurodegenerative Diseases. 2021 , 10, | 2 |
| 291 | Therapeutic Advances in Gut Microbiome Modulation in Patients with Inflammatory Bowel Disease from Pediatrics to Adulthood. 2021 , 22, | 5 |
| 290 | The Population-based Microbiome Research Core: a longitudinal infrastructure for assessment of household microbiome and human health research. | 1 |
| 289 | Synchronizing Our Clocks as We Age: The Influence of the Brain-Gut-Immune Axis on the Sleep-Wake Cycle Across the Lifespan. 2021 , | 2 |
| 288 | Effect of stocking density and age on physiological performance and dynamic gut bacterial and fungal communities in Langya hens. 2021 , 20, 218 | 2 |
| 287 | Das Mikrobiom: Einfluss auf Adipositas und Diabetes. | |
| 286 | GutBrain Axis: Role of the Gut Microbiome on Human Health. 2022 , 187-211 | |
| 285 | Antibiotics in early life and childhood pre-B-ALL. Reasons to analyze a possible new piece in the puzzle.. 2022 , 13, 5 | |
| 284 | Microbiome-based therapeutics.. 2022 , | 14 |
| 283 | Trust Your Gut: The Human Gut Microbiome in Health and Disease. 2022 , 53-96 | 0 |
| 282 | Characterization of Microbiomes Associated With the Early Life Stages of Sea Cucumber <i>Apostichopus japonicus</i> Selenka. 2022 , 9, | |
| 281 | The Mediating Role of the Gut Microbiota in the Physical Growth of Children.. 2022 , 12, | 2 |

| | | |
|-----|--|----|
| 280 | Gut Microbiome Alterations following Postnatal Iron Supplementation Depend on Iron Form and Persist into Adulthood.. 2022 , 14, | 1 |
| 279 | Do gastrointestinal microbiomes play a role in bats' unique viral hosting capacity?. 2022 , | 0 |
| 278 | Living Lab for Citizens' Wellness: A Case of Maintaining and Improving a Healthy Diet under the COVID-19 Pandemic.. 2022 , 19, | 0 |
| 277 | Beneficial microbes from human and animal intestines. 2022 , 55-76 | |
| 276 | Gut microbiome-immune system interaction in reptiles.. 2022 , | 1 |
| 275 | Epithelial MHC class II directs microbiota-specific intestinal immune homeostasis. | |
| 274 | Arresting microbiome development limits immune system maturation and resistance to infection. | 0 |
| 273 | Mutual Links between the Endocannabinoidome and the Gut Microbiome, with Special Reference to Companion Animals: A Nutritional Viewpoint.. 2022 , 12, | 0 |
| 272 | Multifactorial Mechanism of Sarcopenia and Sarcopenic Obesity. Role of Physical Exercise, Microbiota and Myokines.. 2022 , 11, | 4 |
| 271 | Human Microbiome: Implication of Age and External Factors. 2022 , 1-26 | |
| 270 | Bacterial colonization and TH17 immunity are shaped by intestinal sialylation in neonatal mice.. 2022 , | 3 |
| 269 | Non-invasive monitoring of multiple wildlife health factors by fecal microbiome analysis.. 2022 , 12, e8564 | 2 |
| 268 | The crewed journey to Mars and its implications for the human microbiome.. 2022 , 10, 26 | 2 |
| 267 | A mini-review of advances in intestinal flora and necrotizing enterocolitis.. 2022 , | 1 |
| 266 | Factors influencing development of the infant microbiota: From prenatal period to early infancy.. 2021 , | 0 |
| 265 | [Gut microbiota and osteoporosis]. 2016 , 37, 278-282 | 1 |
| 264 | Factors influencing the gut microbiome in children: from infancy to childhood. 2019 , 44, | 18 |
| 263 | The Gut Microbiome. 2022 , | |

- 262 Succession of founding microbiota in an anaerobic baffled bioreactor treating low-temperature raw domestic wastewater. **2022**, 8, 792-806 0
- 261 The Development of the Gut Microbiota in Childhood and Its Distortion by Lifestyle Changes. **2022**, 197-219
- 260 Ecological Processes Shaping Microbiomes of Extremely Low Birthweight Infants.. **2022**, 13, 812136
- 259 Development of the gut microbiota in healthy children in the first ten years of life: associations with internalizing and externalizing behavior.. **2022**, 14, 2038853 1
- 258 Host microbiome responses to the Snake Fungal Disease pathogen (*Ophidiomyces ophidiicola*) are driven by changes in microbial richness.. **2022**, 12, 3078 1
- 257 A Parallel Tracking of Salivary and Gut Microbiota Profiles Can Reveal Maturation and Interplay of Early Life Microbial Communities in Healthy Infants.. **2022**, 10, 0
- 256 To Probiotic or Not to Probiotic: A Metagenomic Comparison of the Discharge Gut Microbiome of Infants Supplemented With Probiotics in NICU and Those Who Are Not.. **2022**, 10, 838559 0
- 255 Parallel-Meta Suite: Interactive and rapid microbiome data analysis on multiple platforms. **2022**, 1, 3
- 254 Relationships Between Diurnal Changes of Tongue Coating Microbiota and Intestinal Microbiota.. **2022**, 12, 813790 0
- 253 A commensal-encoded genotoxin drives restriction of colonization and host gut microbiome remodeling.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2121180119 11.5 3
- 252 CCFM8724 Reduces the Amounts of Oral Pathogens and Alters the Oral Microbiota in Children With Dental Caries: a Randomized, Double-Blind, Placebo-Controlled Trial.. **2022**, 1-10
- 251 Investigating natural attenuation of PAHs by soil microbial communities: insights by a machine learning approach. 0
- 250 An integrative analysis of the biological clock hypothesis in human gut microbiome.
- 249 Environmental and Human Microbiome for Health.. **2022**, 12, 0
- 248 Microbiota, IgA and Multiple Sclerosis.. **2022**, 10, 1
- 247 Fire as a driver of fungal diversity - A synthesis of current knowledge.. **2022**, 1-27 1
- 246 Nutrition in Asthma.. **2022**,
- 245 Viewing Bacterial Colonization through the Lens of Systems Biology.. **2022**, e0138321 1

| | | |
|-----|--|---|
| 244 | Interpretable prediction of necrotizing enterocolitis from machine learning analysis of premature infant stool microbiota.. 2022 , 23, 104 | 2 |
| 243 | Socioeconomic disparities and household crowding in association with the fecal microbiome of school-age children.. 2022 , 8, 10 | 0 |
| 242 | Changes in the gut microbiota of Nigerian infants within the first year of life.. 2022 , 17, e0265123 | 2 |
| 241 | Insights into E-manno-oligosaccharide uptake and metabolism in <i>Bifidobacterium adolescentis</i> DSMZ 20083 from whole-genome microarray analysis. | |
| 240 | Evaluation of fecal microbiota and its correlation with inflammatory, hormonal, and nutritional profiles in women.. 2022 , 1 | 0 |
| 239 | Gut microbe <i>Lactiplantiballus plantarum</i> undergoes different evolutionary trajectories between insects and mammals. | |
| 238 | Gut microbiota in gastrointestinal diseases during pregnancy. 2022 , 10, 2976-2989 | 1 |
| 237 | Successional Stages in Infant Gut Microbiota Maturation.. 2021 , e0185721 | 7 |
| 236 | Tree-based Analysis of Dietary Diversity Captures Associations between Fiber Intake and Gut Microbiota Composition in a Healthy U.S. Adult Cohort.. 2021 , | 3 |
| 235 | Multivariate log-contrast regression with sub-compositional predictors: Testing the association between preterm infants' gut microbiome and neurobehavioral outcomes.. 2021 , | |
| 234 | Understanding the Role of the Gut Microbiome in Brain Development and Its Association With Neurodevelopmental Psychiatric Disorders.. 2022 , 10, 880544 | 3 |
| 233 | Maternal vaccination against Group B <i>Streptococcus</i> glyceraldehyde-3-phosphate dehydrogenase leads to gut dysbiosis in the offspring.. 2022 , | 1 |
| 232 | PRObiotics and SYNbiotics to improve gut health and growth in infants in western Kenya (PROSYNK Trial): study protocol for a 4-arm, open-label, randomised, controlled trial.. 2022 , 23, 284 | 0 |
| 231 | Data_Sheet_1.PDF. 2020 , | |
| 230 | Table_1.DOCX. 2020 , | |
| 229 | Data_Sheet_1.PDF. 2018 , | |
| 228 | Data_Sheet_2.PDF. 2018 , | |
| 227 | Data_Sheet_3.CSV. 2018 , | |

226 Data_Sheet_4.FASTA. 2018,

225 Data_Sheet_5.FASTA. 2018,

224 Image_1.PDF. 2018,

223 Image_2.PDF. 2018,

222 Image_3.PDF. 2018,

221 Image_4.PDF. 2018,

220 Image_5.PDF. 2018,

219 Table_1.CSV. 2018,

218 Table_10.DOC. 2018,

217 Table_2.CSV. 2018,

216 Table_3.CSV. 2018,

215 Table_4.DOC. 2018,

214 Table_5.DOC. 2018,

213 Table_6.CSV. 2018,

212 Table_7.DOC. 2018,

211 Table_8.DOC. 2018,

210 Table_9.DOC. 2018,

209 Presentation_1.pdf. 2018,

208 Data_Sheet_1.xlsx. **2020,**

207 Data_Sheet_2.doc. **2020,**

206 Data_Sheet_1.PDF. **2020,**

205 Image_1.TIFF. **2020,**

204 Data_Sheet_1.docx. **2018,**

203 Data_Sheet_2.XLSX. **2018,**

202 Data_Sheet_3.XLSX. **2018,**

201 Data_Sheet_1.docx. **2019,**

200 Image_1.pdf. **2018,**

199 Image_2.PDF. **2018,**

198 Image_3.PDF. **2018,**

197 Image_4.PDF. **2018,**

196 Table_1.XLSX. **2018,**

195 Data_Sheet_1.PDF. **2019,**

194 Presentation_1.PDF. **2018,**

193 Image_1.JPEG. **2019,**

192 Image_2.JPEG. **2019,**

191 Table_1.xlsx. **2019,**

190 Data_Sheet_1.docx. **2019**,

189 Data_Sheet_1.PDF. **2019**,

188 Data_Sheet_1.docx. **2019**,

187 Table_1.XLSX. **2019**,

186 Table_2.XLSX. **2019**,

185 Data_Sheet_1.zip. **2018**,

184 Table_1.XLSX. **2018**,

183 Table_2.XLSX. **2018**,

182 Data_Sheet_1.PDF. **2020**,

181 Data_Sheet_2.ZIP. **2020**,

180 Image_1.pdf. **2020**,

179 Table_1.XLSX. **2020**,

178 Table_2.DOCX. **2020**,

177 Table_3.XLSX. **2020**,

176 Table_4.XLSX. **2020**,

175 Table_1.pdf. **2018**,

174 Table_2.pdf. **2018**,

173 Table_3.pdf. **2018**,

172 Table_4.pdf. **2018**,

171 Table_5.pdf. **2018**,

170 Image_1.png. **2019**,

169 Data_Sheet_1.docx. **2019**,

168 Data_Sheet_1.PDF. **2020**,

167 Table_1.docx. **2020**,

166 Image_1.TIFF. **2020**,

165 Image_2.TIFF. **2020**,

164 Table_1.XLSX. **2020**,

163 Table_2.XLSX. **2020**,

162 Table_3.XLSX. **2020**,

161 Table_4.XLSX. **2020**,

160 Table_5.XLSX. **2020**,

159 Table_6.XLSX. **2020**,

158 Data_Sheet_1.docx. **2020**,

157 The role of diet and physical activity in influencing the microbiota/microbiome. **2022**, 693-745

156 White Matter Injury in Preterm Infants: Pathogenesis and Potential Therapy From the Aspect of the Gut-Brain Axis.. **2022**, 16, 849372

2

155 Diet-Based Microbiome Modulation: You are What You Eat. **2022**, 1-46

- 154 Point-of-use carbon-block drinking water filters change gut microbiome of larval zebrafish.. **2022,**
- 153 Gut Microbial Antigenic Mimicry in Autoimmunity.. **2022, 13, 873607** 3
- 152 The effect of intrinsic factors and mechanisms in shaping human gut microbiota. **2022, 100054**
- 151 Supplementation with a probiotic mixture accelerates gut microbiome maturation and reduces intestinal inflammation in extremely preterm infants.. **2022, 30, 696-711.e5** 7
- 150 Gut Microbiome as a Mediator of Stress Resilience: A Reactive Scope Model Framework.. **2022,** 0
- 149 The developing infant gut microbiome: A strain-level view.. **2022, 30, 627-638** 3
- 148 The pediatric virome in health and disease.. **2022, 30, 639-649** 2
- 147 Association between gut Microbiota, GROWth and Diet in peripubertal children from the TARGET Kids! cohort (The MiGrowD) study: protocol for studying gut microbiota at a community-based primary healthcare setting.. **2022, 12, e057989**
- 146 Rapid evolution and strain turnover in the infant gut microbiome.. **2022,** 2
- 145 Microbiomes of the Sydney Rock Oyster are acquired through both vertical and horizontal transmission.. **2022, 4, 32** 0
- 144 A comparative study of the fecal microbiota of gray seal pups and yearlings - a marine mammal sentinel species. **2022, 11,** 1
- 143 Minimal Effects of Medium-Chain Triglyceride Supplementation on the Intestinal Microbiome Composition of Premature Infants: A Single-Center Pilot Study. **2022, 14, 2159**
- 142 Roles of Secretory Immunoglobulin A in Host-Microbiota Interactions in the Gut Ecosystem. **2022, 13,** 3
- 141 Multiomic Analyses of Nascent Preterm Infant Microbiomes Differentiation Suggest Opportunities for Targeted Intervention. 2101313 0
- 140 Gastrointestinal colonization of Extended-Spectrum Beta lactamase producing bacteria among children below five years of age hospitalized with fever in Dar es Salaam, Tanzania. **2022,** 0
- 139 Microbiome assembly and maintenance across the lifespan of bumble bee workers.
- 138 Neonatal Programming of Microbiota Composition: A Plausible Idea That Is Not Supported by the Evidence. 13, 0
- 137 How Metabolomics Provides Novel Insights on Celiac Disease and Gluten-Free Diet: A Narrative Review. 13, 1

- 136 Temporal Alignment of Longitudinal Microbiome Data. 13,
- 135 Effect of Artificial Sweeteners on Gut Microbiota in Mice and Rats: A Systematic Review of Randomized Controlled Studies. **2022**, 31, 99-110
- 134 Babies, Bugs, and Barriers: Dietary Modulation of Intestinal Barrier Function in Early Life. **2022**, 42, 0
- 133 The Gut Microbiota (Microbiome) in Cardiovascular Disease and Its Therapeutic Regulation. 12, 4
- 132 Intersections of the microbiome and early neurodevelopment. **2022**,
- 131 Early Introduction of Plant Polysaccharides Drives the Establishment of Rabbit Gut Bacterial Ecosystems and the Acquisition of Microbial Functions. **2022**, 7,
- 130 Association of human milk oligosaccharides and nutritional status of young infants among Bangladeshi mother/infant dyads. **2022**, 12, 1
- 129 Analysis of 16S rRNA gene sequence of nasopharyngeal exudate from healthy donors reveals changes in key microbial communities associated with aging.
- 128 Association between intestinal microbiota and inflammatory bowel disease. 0
- 127 The Ameliorating Effect of Lizhong-Tang on Antibiotic-Associated Imbalance in the Gut Microbiota in Mouse. **2022**, 12, 6943
- 126 Breastfeeding Affects Concentration of Faecal Short Chain Fatty Acids During the First Year of Life: Results of the Systematic Review and Meta-Analysis. 9, 1
- 125 The First 1000 Days: Assembly of the Neonatal Microbiome and Its Impact on Health Outcomes. **2022**, 1, 219-226 0
- 124 Symbiosis: the other cells in development. **2022**, 149, 0
- 123 Multi-Omics Uncover Neonatal Cecal Cell Development Potentials. 10,
- 122 Adaptation of the infant gut microbiome during the complementary feeding transition. **2022**, 17, e0270213 2
- 121 Associations Between Gut Microbes and Social Behavior in Healthy 2-Year-Old Children. Publish Ahead of Print,
- 120 The Core Human Microbiome: Does It Exist and How Can We Find It? A Critical Review of the Concept. **2022**, 14, 2872 3
- 119 Antibiotic and antifungal use in pediatric leukemia and lymphoma patients are associated with increasing opportunistic pathogens and decreasing bacteria responsible for activities that enhance colonic defense. 12, 0

| | | |
|-----|--|---|
| 118 | Impact of indigenous microbiota in gut inflammatory disorders. 2022 , 179-209 | |
| 117 | Microbiota-Gut-Brain Axis and Neurodegenerative Disorder. 2022 , 27-46 | |
| 116 | Revealing In Silico that Bacteria's Outer Membrane Proteins may Help our Bodies Replicate and Carry Severe Acute Respiratory Syndrome Coronavirus 2. 2022 , 16, 117793222211163 | 0 |
| 115 | Stepwise establishment of functional microbial groups in the infant gut between 6 months and 2 years: A prospective cohort study. 9, | 1 |
| 114 | A pilot study characterizing longitudinal changes in fecal microbiota of patients with Hirschsprung-associated enterocolitis. | 1 |
| 113 | The Effects of Physical Activity on the Gut Microbiota and the Gut-Brain Axis in Preclinical and Human Models: A Narrative Review. 2022 , 14, 3293 | 2 |
| 112 | Cronos: A Machine Learning Pipeline for Description and Predictive Modeling of Microbial Communities Over Time. 2, | |
| 111 | Autism: genetics, environmental stressors, maternal immune activation, and the male bias in autism. | |
| 110 | Temporal variation in skin microbiota of cohabitating amphibians. | 1 |
| 109 | Tenets in Microbial Endocrinology: A New Vista in Teleost Reproduction. 13, | |
| 108 | Age as a primary driver of the gut microbial composition and function in wild harbor seals. 2022 , 12, | 0 |
| 107 | Psoriasis: Interplay between dysbiosis and host immune system. 2022 , 21, 103169 | 2 |
| 106 | First Steps into Ruminal Microbiota Robustness. 2022 , 12, 2366 | 0 |
| 105 | The gut microbiome, human nutrition, and immunity: visualizing the future. 2022 , 41-51 | 0 |
| 104 | Dietary Fatty Acids, Gut Microbiome, and Gut-Brain Communication: A Current Perspective. 2022 , 121-138 | 0 |
| 103 | Aging: Impact of Gut Microbiota. 2022 , 71-82 | 0 |
| 102 | Early colonization of the human gut. 2022 , 15-36 | 0 |
| 101 | The Complex Link and Disease Between the Gut Microbiome and the Immune System in Infants. 12, | 0 |

- 100 Gut microbe metabolism of small molecules supports human development across the early stages of life. 13, 1
- 99 Die Bedeutung des Darm-Mikrobioms für die Alzheimer-Demenz. **2022**, 41, 601-608 0
- 98 Maternal effects on early-life gut microbiota maturation in a wild nonhuman primate. **2022**, 0
- 97 Insights into D-manno-oligosaccharide uptake and metabolism in *Bifidobacterium adolescentis* DSMZ 20083 from whole-genome microarray analysis. **2022**, 127215 0
- 96 Considering humans as habitat reveals evidence of successional disease ecology among human pathogens. **2022**, 20, e3001770 0
- 95 Infant nutrition affects the microbiota-gut-brain axis: Comparison of human milk vs. infant formula feeding in the piglet model. 9, 0
- 94 Associations of Region and Lactation Stage with Odd-Chain Fatty Acid Profile in Triglycerides of Breast Milk in China. **2022**, 27, 6324 0
- 93 Association between diet and fecal microbiota along the first year of life. **2022**, 111994 0
- 92 Gut microbiota and growth performance of offspring are influenced by wet nurse in pigs using cross-fostering trial. 0
- 91 Tutorial: Microbiome studies in drug metabolism. 0
- 90 A child is not an adult: development of a new in vitro model of the toddler colon. 0
- 89 Apoptotic factors and mitochondrial complexes assist determination of strain-specific susceptibility of mice to Parkinsonian neurotoxin MPTP. 0
- 88 Signatures of Microbial Diversity at Multiple Scales of Resolution within Engineered Enrichment Communities. 0
- 87 The Human Gut Microbiome in Health, Disease, and Therapeutics. **2022**, 249-260 0
- 86 The microbiota-gut-brain axis in Huntington's disease. **2022**, 0
- 85 Neonatal development of intestinal neuroimmune interactions. **2022**, 0
- 84 Benefits and Risks of Early Life Iron Supplementation. **2022**, 14, 4380 0
- 83 Prokaryotic Pangenomes Act as Evolving Ecosystems. 0

- 82 Nutrition, Gut Microbiota, and Allergy Development in Infants. **2022**, 14, 4316
- 81 Personalized nutrition, microbiota, and metabolism: A triad for eudaimonia. 9,
- 80 The Influence of the Gut Microbiome in Paediatric Cancer Origin and Treatment. **2022**, 11, 1521
- 79 Farmen i tarmen DEL 1 AV 2. **2017**, 15, 14-22
- 78 Human Milk Oligosaccharides: New Ways to Shape the Gut Microbiome in Cow Milk Protein Allergy. 48-54
- 77 Impact of intestinal dysbiosis on breast cancer metastasis and progression. 12,
- 76 Gut microbial response to host metabolic phenotypes. 9,
- 75 The Impacts of Iron Overload and Ferroptosis on Intestinal Mucosal Homeostasis and Inflammation. **2022**, 23, 14195
- 74 Microbiome assembly and maintenance across the lifespan of bumble bee workers.
- 73 Assessment of infant outgrowth of cow milk allergy in relation to the faecal microbiome and metaproteome.
- 72 Fatty acid profile driven by maternal diet is associated with the composition of human milk microbiota. 1,
- 71 Functional Gastrointestinal Disorders with Psychiatric Symptoms: Involvement of the Microbiome-Gut-Brain Axis in the Pathophysiology and Case Management. **2022**, 10, 2199
- 70 Anaerobic Bacteria. **2023**, 1004-1013.e3
- 69 Identification of key bacterial taxa and metabolic pathways affecting gut organic acid profiles in early life. **2021**, 32, 107-118
- 68 The Potential Role of Human Milk Oligosaccharides in Irritable Bowel Syndrome. **2022**, 10, 2338
- 67 Sex, puberty, and the gut microbiome. **2022**,
- 66 Perspective Chapter: Emergency COVID-19 Guidelines Impacts on the Human Microbiome and Immune System.
- 65 Minocycline-induced disruption of the intestinal FXR-FGF15 axis impairs osteogenesis in mice.

| | | |
|----|--|---|
| 64 | Ruminococcaceae_UCG-013 Promotes Obesity Resistance in Mice. 2022 , 10, 3272 | 1 |
| 63 | Early-life exposure to per- and polyfluoroalkyl substances and infant gut microbial composition. 2023 , 7, e238 | 0 |
| 62 | The contribution of maternal oral, vaginal, and gut microbiota to the developing offspring gut. | 0 |
| 61 | The Role of the Gut Microbiome in Pediatric Obesity and Bariatric Surgery. 2022 , 23, 15421 | 0 |
| 60 | The gut microbiota is an emerging target for improving brain health during ageing. 1-43 | 0 |
| 59 | Effect of proton pump inhibitors in infants with esophageal atresia on the gut microbiome: a pilot cohort. 2022 , 14, | 0 |
| 58 | The gut microbiome in human health and diseaseWhere are we and where are we going? A bibliometric analysis. 13, | 1 |
| 57 | Multi-omic interactions in the gut of children at the onset of islet autoimmunity. 2022 , 10, | 2 |
| 56 | Effects of microbiota-directed supplementary foods on gut microbiota in fecal colonized mice of healthy infants. 2022 , 99, 105346 | 0 |
| 55 | Autoimmune Diseases of the GI Tract Part I: Etiology and Pathophysiology. | 0 |
| 54 | Intestinal epithelial HDAC3 and MHC class II coordinate microbiota-specific immunity. | 0 |
| 53 | The Microbiome in Neurogastroenterology. 2022 , 73-93 | 0 |
| 52 | Analysis of Fecal Short-Chain Fatty Acids (SCFAs) in Healthy Children during the First Two Years of Life: An Observational Prospective Cohort Study. 2023 , 15, 367 | 0 |
| 51 | A Reciprocal Link between Oral, Gut Microbiota during Periodontitis: The Potential Role of Probiotics in Reducing Dysbiosis-Induced Inflammation. 2023 , 24, 1084 | 1 |
| 50 | Metabolically-targeted dCas9 expression in bacteria. | 0 |
| 49 | Age influences the temporal dynamics of microbiome and antimicrobial resistance genes among fecal bacteria in a cohort of production pigs. 2023 , 5, | 0 |
| 48 | Study of altered gut microbial dynamics and their association with gestational diabetes mellitus. | 0 |
| 47 | Beyond the Gut, Emerging Microbiome Areas of Research: A Focus on Early-Life Microbial Colonization. 2023 , 11, 239 | 0 |

- 46 Compositional Differences of Meconium Microbiomes of Preterm and Term Infants, and Infants That Developed Necrotizing Enterocolitis or Feeding Intolerance. **2023**, 12, 55 ○
- 45 Distinct Gut Microbiome Induced by Different Feeding Regimes in Weaned Piglets. **2023**, 14, 49 ○
- 44 Gut microbe *Lactiplantibacillus plantarum* undergoes different evolutionary trajectories between insects and mammals. **2022**, 20, 1
- 43 Comparative Analysis of Rumen Bacterial Profiles and Functions during Adaption to Different Phenology (Regreen vs. Grassy) in Alpine Merino Sheep with Two Growing Stages on an Alpine Meadow. **2023**, 9, 16 ○
- 42 Gut Microbiota: Modulate its Complexity to Restore the Balance. 66-71 ○
- 41 A single dietary factor, daily consumption of a fermented beverage, can modulate the gut microbiome within the same ethnic community. ○
- 40 Symbiotic association of gut microbiome in health and diseases at ageing. **2023**, 551-571 ○
- 39 Effects of Perinatal Antibiotic Exposure and Neonatal Gut Microbiota. **2023**, 12, 258 ○
- 38 Disease mechanisms as subtypes: Microbiome. **2023**, 107-131 ○
- 37 Impacts of age on the gut microbiota in captive giant pandas. ○
- 36 Host Factors Associated with Gut Mycobiome Structure. 1
- 35 Dietary effects of *Gmelina arborea* [*Panicum maximum* forages on digestibility and haematological characteristics of rams. **2023**, 55, ○
- 34 Innova 2020: A Follow-Up Study of the Fecal Microbiota of Infants Using a Novel Infant Formula between 6 Months and 12 Months of Age. **2023**, 24, 7392 ○
- 33 Metabolic independence drives gut microbial colonization and resilience in health and disease. **2023**, 24, ○
- 32 Microorganisms in the Pathogenesis and Management of Crohn's Disease (CD). **2022**, 255-269 ○
- 31 Microorganisms in Pathogenesis and Management of Multiple Sclerosis (MS). **2022**, 151-175 ○
- 30 Tracing human life trajectory using gut microbial communities by context-aware deep learning. **2023**, 24, ○
- 29 Comparison of Human gut Microbiota with other Animals. **2022**, 5541-5547 ○

- 28 Comparative seasonal analysis of Eri silkworm (*Samia ricini* Donovan) gut composition: implications for lignocellulose degradation. ○
- 27 Weanling gut microbiota composition of a mouse model selectively bred for high voluntary wheel-running behavior. **2023**, 226, ○
- 26 Gut Microbiota and Coronary Artery Disease: Current Therapeutic Perspectives. **2023**, 13, 256 ○
- 25 Conversations in the Gut: The Role of Quorum Sensing in Normobiosis. **2023**, 24, 3722 ○
- 24 Analysis of 16S rRNA Gene Sequence of Nasopharyngeal Exudate Reveals Changes in Key Microbial Communities Associated with Aging. **2023**, 24, 4127 ○
- 23 The role of diet in shaping human gut microbiota. **2023**, 101828 ○
- 22 Genetic-Phenotype Analysis of *Bifidobacterium bifidum* and Its Glycoside Hydrolase Gene Distribution at Different Age Groups. **2023**, 12, 922 ○
- 21 *Fusobacterium nucleatum* Infection Induces Malignant Proliferation of Esophageal Squamous Cell Carcinoma Cell by Putrescine Production. **2023**, 11, ○
- 20 Core-predominant gut fungus *Kazachstania slooffiae* promotes intestinal epithelial glycolysis via lysine desuccinylation in pigs. **2023**, 11, ○
- 19 What the Gut Tells the Brain: There a Link between Microbiota and Huntington's Disease?. **2023**, 24, 4477 ○
- 18 The Gut Microbiota and Inflammatory Bowel Disease. **2023**, 49-59 ○
- 17 Longitudinal Analysis of the Intestinal Microbiota among a Cohort of Children in Rural and Urban Areas of Pakistan. **2023**, 15, 1213 ○
- 16 Impacts of age on the gut microbiota in captive giant pandas. ○
- 15 Prolonged Antibiotic Exposure during Adolescence Dysregulates Liver Metabolism and Promotes Adiposity in Mice. **2023**, ○
- 14 Individual variation in the avian gut microbiota: The influence of host state and environmental heterogeneity. ○
- 13 Development of the Anaerobic Microbiome in the Infant Gut. Publish Ahead of Print, ○
- 12 The impact of prenatal dog keeping on infant gut microbiota development. ○
- 11 Exploration of lung mycobiome in the patients with non-small-cell lung cancer. **2023**, 23, ○

- 10 Constipation-Predominant Irritable Bowel Syndrome (IBS-C): Effects of Different Nutritional Patterns on Intestinal Dysbiosis and Symptoms. **2023**, 15, 1647
- 9 Arresting microbiome development limits immune system maturation and resistance to infection in mice. **2023**, 31, 554-570.e7
- 8 Maturation state of colonization sites promotes symbiotic resiliency in the *Euprymna scolopes*-*Vibrio fischeri* partnership. **2023**, 11,
- 7 Belkten Mezara Yaŕm Boyu Devam Eden Mikrobiyota. **2023**, 32, 10-15
- 6 Non-Human Peptides Revealed in Blood Reflect the Composition of Small Intestine Microbiota.
- 5 State of the art: Intrapartum antibiotics in cesarean section, the infant microbiota and allergic diseases.
- 4 Human milk-associated bacterial communities associate with the infant gut microbiome over the first year of life. 14,
- 3 Development of the gut microbiota in the first 14 years of life and its relations to internalizing and externalizing difficulties and social anxiety during puberty.
- 2 The Diversity of Gut Bacteria and Psychological Disorders.
- 1 Gut-Œver axis: barriers and functional circuits.