

- crobiota. *FEMS Microbiology Ecology*, **92** (4): fiw055.
- Sun B H, Wang X, Bernstein S, Huffman M A, Xia D P, Gu Z Y, Chen R, Sheeran L K, Wagner R S, Li J H. 2016. Marked variation between winter and spring gut microbiota in free-ranging Tibetan macaques (*Macaca thibetana*). *Scientific Reports*, **6**. DOI: 10.1038/srep26035
- Simpson S, Ash C, Pennisi E, Travis J. 2005. The gut: inside out. *Science*, **307** (5717): 1895
- Turnbaugh P J, Ley R E, Mahowald M A, Magrini V, Mardis E R, Gordon J I. 2006. An obesity-associated gut microbiome with increased capacity for energy harvest. *Nature*, **444** (7122): 1027–1031.
- Turnbaugh P J, Ley R E, Hamady M, Fraser-Liggett C, Knight R, Gordon J I. 2007. The human microbiome project: exploring the microbial part of ourselves in a changing world. *Nature*, **449** (7164): 804–810.
- Tun H M, Mauro N F, San Yuen C, Ho J C W, Wong M T, Leung F C C. 2014. Microbial diversity and evidence of novel homoacetogens in the gut of both geriatric and adult giant pandas (*Ailuropoda melanoleuca*). *PLoS ONE*, **9** (1): e79902.
- Uenishi G, Fujita S, Ohashi G, Kato A, Yamauchi S, Matsuzawa T, Ushida K. 2007. Molecular analyses of the intestinal microbiota of chimpanzees in the wild and in captivity. *American Journal of Primatology*, **69** (4): 367–376.
- Villers L M, Jang S S, Lent C L, Lewin-Koh S C, Norosoarainivo J A. 2008. Survey and comparison of major intestinal flora in captive and wild ring-tailed lemur (*Lemur catta*) populations. *American Journal of Primatology*, **70** (2): 175–184.
- Verberkmoes N C, Russell A L, Shan M, Godzik A, Rosenquist M, Halfvarson J, Lefsrud M G, Apajalahti J, Tysk C, Hettich R L, Jansson J K. 2009. Shotgun metaproteomics of the human distal gut microbiota. *ISME Journal*, **3** (2): 179–189.
- Williams C L, Willard S, Kouba A, Sparks D, Holmes W, Falcone J, Williams C H, Brown A. 2013. Dietary shifts affect the gastrointestinal microflora of the giant panda (*Ailuropoda melanoleuca*). *Journal of Animal Physiology and Animal Nutrition*, **97** (3): 577–585.
- White R A, Callister S J, Moore R J, Baker E S, Jansson J K. 2016. The past, present and future of microbiome analyses. *Nature Protocols*, **11** (11): 2049–2053.
- Xue Z, Zhang W, Wang L, Hou R, Zhang M, Fei L, Zhang X, Huang H, Bridgewater L C, Jiang Y, Zhao L, Pang X, Zhang Z, Jiang C. 2015. The bamboo-eating giant panda harbors a carnivore-like gut microbiota with excessive seasonal variations. *MBio*, **6** (3): 0022–15.
- Yonouelis P G, Gray P L, Brightsmith D, Palculict B, Hoppes S, Steiner J M, Tizard I, Suchodolski J S. 2010. Molecular characterization of the cloacal microbiota of wild and captive parrots. *Veterinary Microbiology*, **146** (3): 320–325.
- Zhang Z, Xu D, Wang L, Hao J, Wang J, Zhou X, Wang W, Qiu Q, Huang X, Zhou J, Zhao F, Shi P, Long R. 2016. Convergent evolution of rumen microbiomes in high-altitude mammals. *Current Biology*, **26** (14): 1873–1879.
- Zhang H H, Liu G S, Chen L, Sha W L. 2015. Composition and diversity of the bacterial community in the distal gut of snow leopard (*Uncia uncia*). *Annals of Microbiology*, **65** (2): 703–711.
- Zhou X, Wang B, Sun Q, Zhang J, Kumar S, Sun X, Liu Z, Pan H, Liu G, Li M, Ren B, Ma X, Ruan H, Cheng C, Wang D, Shi F, Hui Y, Tao Y, Zhang C, Zhu P, Xiang Z, Jiang W, Chang J, Wang H, Cao Z, Jiang Z, Li B, Yang G, Roos C, Garber P A, Bruford M W, Li R, Zhan W, Li M. 2014. Whole-genome sequencing of the snub-nosed monkey provides insights into folivory and evolutionary history. *Nature Genetics*, **46** (12): 1303–1310.
- Zhu L, Wu Q, Dai J, Zhang S, Wei F. 2011. Evidence of cellulose metabolism by the giant panda gut microbiome. *Proceedings of the National Academy of Sciences*, **108** (43): 17714–17719.
- 魏辅文. 2016. 动物适应性进化研究的新视角: 动物肠道微生物组. *中国科学: 生命科学*. DOI: 10.1360/N052016-00247.