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| |  |  | | --- | --- | | Dear Reader,  We are pleased to deliver your requested table of contents alert for **Science China Life Sciences**. [**Volume 60 Number 5**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I12&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=aMawPI5MZEVdS_t5xvlTXc0Q65Yy5by2dlam6OUqMsE&e=) is now available online.  SPECIAL TOPIC: Genome editing in genetic therapy and agriculture |  | |
| Important news |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | **Change the World: Read 180 articles nominated by our Editors-in-Chief**  We asked our Editors-in-Chief to nominate just one journal article published in 2016 that could help humanity and protect and preserve our planet. Read 180 groundbreaking articles that have the potential to change the world! All selected articles are freely accessible!  [» Learn more](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I14&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=A5W4CRP45n0cI1c-c29zNAKKdkyWlnM32dOXhdXI6rg&e=) | |  | | --- | |  | | | |
| In this issue |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Editorial |  |   Anything impossible with CRISPR/Cas9?  Renjie Jiao & Caixia Gao | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I15&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=ZXWizAf4Y3EcpJxp0XowDqyrfV-5IUBTr_5r7s30wdI&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I16&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=1zUol4j4x3kDvBX9EySRrnQMOf7Wam0uTjJV0Xssuwg&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Review |  |   CRISPR/Cas9-mediated correction of human genetic disease  Ke Men, Xingmei Duan, Zhiyao He, Yang Yang, Shaohua Yao & Yuquan Wei | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I17&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=ulQhHd3wDmX-Yql6wRNQbGX_U8rr5okdLrqw_1g8MEI&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I18&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=JZ9WN49SdPjJi6bNrCpkpwaZ26WZu4SWXrL89TYD5oU&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Review |  |   Non-viral and viral delivery systems for CRISPR-Cas9 technology in the biomedical field  Zhi-Yao He, Ke Men, Zhou Qin, Yang Yang, Ting Xu & Yu-Quan Wei | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I19&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=9hHPPgvvAGPbX9Zkf3EoAwnoU2vjnB4rV0XCLDvxo-M&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1a&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=0UN93nZi-M1W2_dsLGq3PrIPfIxgDhSh9qO4PWdjvho&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Review |  |   CRISPR/Cas9 system: a powerful technology for *in vivo* and *ex vivo* gene therapy  Xiaohui Zhang, Liren Wang, Mingyao Liu & Dali Li | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1b&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=SZnCLHbx8BcU14cuHKbKnoggXiH33tqbTvlf-b5hQUw&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1c&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=eG2NbrgLtPRV0wrWb8mfT7_51PXzg1F60xL44fdcRVs&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Review |  |   Genome editing in *Drosophila melanogaster*: from basic genome engineering to the multipurpose CRISPR-Cas9 system  Xingjie Ren, Kristof Holsteens, Haiyi Li, Jin Sun, Yifan Zhang, Lu-Ping Liu, Qingfei Liu & Jian-Quan Ni | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1d&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=OjgjCiBM1oUr-ZdQRo9ZlrL5ySOYo3cmQaLDUjm9by0&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1e&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=pn5C0yR1KJV_Lwk4pQZ0onBC9yFgfk9iGBW_D1dFlAg&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Review |  |   Current and future editing reagent delivery systems for plant genome editing  Yidong Ran, Zhen Liang & Caixia Gao | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1f&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=1Sz1Aat0FmWy_PPMzbqTh756upTwu9H8wPhie2HtfuU&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1g&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=5WvobwepppUUN-zTLaHMkjghQpxEPMZewXySjFprOXw&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Research Paper |  |   Rapid generation of genetic diversity by multiplex CRISPR/Cas9 genome editing in rice  Lan Shen, Yufeng Hua, Yaping Fu, Jian Li, Qing Liu, Xiaozhen Jiao, Gaowei Xin, Junjie Wang, Xingchun Wang, Changjie Yan & Kejian Wang | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1h&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=dA8pFW-7rnvPNrFcToZX_wI64lNSPrC74fvwgpgmkRM&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1i&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=M2Qvs2m7uCZNq3NNCxxAjRP3cnn5yIWvGu8t5131-cM&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Letter to the Editor |  |   A CRISPR/Cas9 toolkit for efficient targeted base editing to induce genetic variations in rice  Bin Ren, Fang Yan, Yongjie Kuang, Na Li, Dawei Zhang, Honghui Lin & Huanbin Zhou | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1j&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=nd_VWOzMjMUw1jwlCZlOTI5p8Qd3zYzjSDY8VkyrRMg&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1k&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=LExaYhXX4C4P5cNM6DyRdpRYXfpteuH01Egf5dpAXsg&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Letter to the Editor |  |   CRISPR/Cas9-mediated base-editing system efficiently generates gain-of-function mutations in *Arabidopsis*  Yiyu Chen, Zhiping Wang, Hanwen Ni, Yong Xu, Qijun Chen & Linjian Jiang | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1l&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=haeltI7ecJbnrf299mYNDx0d80y9dUaKf6UIV_wWrSA&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1m&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=59u3MyQ0qt4jGnCGOmf4pbwZbGep-IG6jm2wfglSlTg&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Letter to the Editor |  |   Increased lateral root formation by CRISPR/Cas9-mediated editing of arginase genes in cotton  Yanling Wang, Zhigang Meng, Chengzhen Liang, Zhaohong Meng, Yuan Wang, Guoqing Sun, Tao Zhu, Yongping Cai, Sandui Guo, Rui Zhang & Yi Lin | |
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| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Research Paper |  |   PSG9 promotes angiogenesis by stimulating VEGFA production and is associated with poor prognosis in hepatocellular carcinoma  Weiqi Rong, Lei Yang, Liyuan Yin, Yanning Gao, Ting Xiao & Shujun Cheng | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1p&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=yOsE1XiIh34XuEGogN49cnl5xvyqWb6sejkI41zbznM&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1q&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=63isGGvY9SZh_mlP8LScQZFRmvwJaL6vsd7QNqLYzc8&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Research Paper |  |   Phylogenetic constrains on mycorrhizal specificity in eight *Dendrobium*(Orchidaceae) species  Xiaoke Xing, Xueting Ma, Jinxin Men, Yanhong Chen & Shunxing Guo | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1r&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=_xK8XCfggxxGADy1LNwln4AH1w6CT2OtN8aMM884Hk8&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1s&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=snleDiAoRr9xOhffNby6Hyj1zHxoFhf7j-F5pmXiHqw&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Insight |  |   Poisoning the pika: must protection of grasslands be at the expense of biodiversity?  Lan Wu & Hao Wang | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1t&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=TQiJq7buU_NbulZFzWa5phcAhblHW48eG_qC0RJ1xdE&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1u&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=svCpQoBOSgBDiPUJIpyXc04pq8VjWVaMQ_N_6rZ__W4&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Insight |  |   Water regulation: a Sword of Damocles for migratory waterbirds in China?  Yifei Jia, Guangchun Lei & Xiubo Yu | |
| |  |  | | --- | --- | | |  | | --- | | [**» Abstract**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1v&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=8tt04XHJGNT7gHodP61xt2vsj8VdDPxqwaVcgvitOms&e=)   [**» Full text PDF**](https://urldefense.proofpoint.com/v2/url?u=http-3A__alerts.springer.com_re-3Fl-3DD0In671gaI6gyt153I1w&d=DwMFaQ&c=ZQs-KZ8oxEw0p81sqgiaRA&r=rOMURTZ4fslq9dKzVxltN4xNU-D2Ru1wiL30akyNmwk&m=enfDvyaiiYaUWojf3nReO0opPhbENekLkem1Ph1A2YE&s=1TKxS9e1EK_nqS_e5elzvReMorgWdseU1U2a0r1i3Zo&e=) | | |
| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Insight |  |   Conservation planning beyond giant pandas: the need for an innovative telecoupling framework  Fang Wang & Jianguo Liu | |
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| |  |  |  | | --- | --- | --- | | |  |  | | --- | --- | | Research Highlight |  |   A novel strategy to generate virus vaccines with expanded genetic codes  Deyin Guo | |
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