

# Contents

Vol. 45 No. 12 December 31, 2022

## Minireviews

### Glyoxalase 1 as a Therapeutic Target in Cancer and Cancer Stem Cells

*Ji-Young Kim, Ji-Hye Jung, Seung-Joon Lee, Seon-Sook Han, and Seok-Ho Hong* ..... 869

### Advances in Optical Tools to Study Taste Sensation

*Gha Yeon Park, Hyeyeong Hwang, and Myunghwan Choi* ..... 877

## Journal Club

### How Does Global Warming Sabotage Plant Immunity?

*Souvik Dhar and Ji-Young Lee* ..... 883

## Research Articles

### RUNX1–Survivin Axis Is a Novel Therapeutic Target for Malignant Rhabdoid Tumors

*Masamitsu Mikami, Tatsuya Masuda, Takuya Kanatani, Mina Noura, Katsutsugu Umeda, Hidefumi Hiramatsu, Hirohito Kubota, Tomoo Daifu, Atsushi Iwai, Etsuko Yamamoto Hattori, Kana Furuichi, Saho Takasaki, Sunao Tanaka, Yasuzumi Matsui, Hidemasa Matsuo, Masahiro Hirata, Tatsuki R. Kataoka, Tatsutoshi Nakahata, Yasumichi Kuwahara, Tomoko Iehara, Hajime Hosoi, Yoichi Imai, Junko Takita, Hiroshi Sugiyama, Souichi Adachi, and Yasuhiko Kamikubo* ..... 886

### Temporal Transcriptome Analysis of SARS-CoV-2-Infected Lung and Spleen in Human ACE2-Transgenic Mice

*Jung Ah Kim, Sung-Hee Kim, Jung Seon Seo, Hyuna Noh, Haengdueng Jeong, Jiseon Kim, Donghun Jeon, Jeong Jin Kim, Dain On, Suhyeon Yoon, Sang Gyu Lee, Youn Woo Lee, Hui Jeong Jang, In Ho Park, Jooyeon Oh, Sang-Hyuk Seok, Yu Jin Lee, Seung-Min Hong, Se-Hee An, Joon-Yong Bae, Jung-ah Choi, Seo Yeon Kim, Young Been Kim, Ji-Yeon Hwang, Hyo-Jung Lee, Hong Bin Kim, Dae Gwin Jeong, Daesub Song, Manki Song, Man-Seong Park, Kang-Seuk Choi, Jun Won Park, Jun-Won Yun, Jeon-Soo Shin, Ho-Young Lee, Jun-Young Seo, Ki Taek Nam, Heon Yung Gee, and Je Kyung Seong* ..... 896

### Glycogen Synthase Kinase-3 Interaction Domain Enhances Phosphorylation of SARS-CoV-2 Nucleocapsid Protein

*Jun Seop Yun, Hyeon Song, Nam Hee Kim, So Young Cha, Kyu Ho Hwang, Jae Eun Lee, Cheol-Hee Jeong, Sang Hyun Song, Seonghun Kim, Eunae Sandra Cho, Hyun Sil Kim, and Jong In Yook* ..... 911

# Contents

---

Vol. 45 No. 12 December 31, 2022

- The Aurora Kinase Inhibitor CYC116 Promotes the Maturation of Cardiomyocytes Derived from Human Pluripotent Stem Cells**  
*Sijia Ji, Wanzhi Tu, Chenwen Huang, Ziyang Chen, Xinyue Ren, Bingqing He, Xiaoyan Ding, Yuelei Chen, and Xin Xie* ..... 923
- Overexpression of *KiSS1* Induces the Proliferation of Hepatocarcinoma and Increases Metastatic Potential by Increasing Migratory Ability and Angiogenic Capacity**  
*Cho-Won Kim, Hong Kyu Lee, Min-Woo Nam, Youngdong Choi, and Kyung-Chul Choi* ..... 935
- Increased Caveolin-2 Expression in Brain Endothelial Cells Promotes Age-Related Neuroinflammation**  
*Hyunju Park, Jung A Shin, Jiwoo Lim, Seulgi Lee, Jung-Hyuck Ahn, Jihee Lee Kang, and Youn-Hee Choi* ..... 950
- SLC3A2 and SLC7A2 Mediate the Exogenous Putrescine-Induced Adipocyte Differentiation**  
*Jin Eom, Juhyun Choi, Sung-Suk Suh, and Jong Bae Seo* ..... 963

## COVER PICTURE

Continuous efforts have been made to help the maturation of human pluripotent stem cell-derived cardiomyocytes (hPSC-CMs). Ji et al. (2022) showed that the inhibition of the aurora kinases with small molecule inhibitors (ball-and-stick model) promotes the maturation of hPSC-CMs, which display better organization of the sarcomere (stained in red) (Ji et al., pp. 923-934).