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*Highlighted Papers 2022 selected by Editor-in-Chief*

**Biological and Pharmaceutical Bulletin**

The following twelve articles were selected by the Editor-in-Chief among articles published in the year 2022.

**Impact of Gut Microbiota on the Pharmacokinetics of Glycyrrhizic Acid in Yokukansan, a Kampo Medicine**

T. Ishida, K. Jobu, K. Kawada, S. Morisawa, T. Kawazoe, H. Shiraishi, H. Fujita, S. Nishimura, H. Kanno,
M. Nishiyama, K. Ogawa, Y. Morita, K. Hanazaki, and M. Miyamura ........................................ Vol. 45 No. 1 pp. 104-113

**Effective Anticancer Therapy by Combination of Nanoparticles Encapsulating Chemotherapeutic Agents and Weak Electric Current**


**Activation of Host Immune Cells by Probiotic-Derived Extracellular Vesicles via TLR2-Mediated Signaling Pathways**

M. Morishita, R. Sagayama, Y. Yamawaki, M. Yamaguchi, H. Katsumi, and A. Yamamoto .... Vol. 45 No. 3 pp. 354-359

**Sex, Organ, and Breed Differences in the mRNA Expression of Drug Transporters in the Liver and Kidney of Pigs**

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**Transforming Growth Factor Beta Promotes the Expansion of Cancer Stem Cells via S1PR3 by Ligand-Independent Notch Activation**

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**Difference in Cost-Effectiveness between First-Line and Third-Line or Later Nivolumab Therapy in Patients with HER2-Negative, Unresectable, Advanced or Recurrent Gastric or Gastro-Eosophageal Junction Cancer in Japan**

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**Regulation of Iron-Ion Transporter SLC11A2 by Three Identical miRNAs**

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| Testicular Hypoplasia with Normal Fertility in Neudesin- Knockout Mice |
| H. Hasegawa, M. Kondo, K. Nakayama, T. Okuno, N. Itoh, and M. Konishi | Vol. 45 No. 12 pp. 1791-1797 |

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Editor-in-Chief

Takashi Uehara