

## Message from the President

Dear readers,

It is a great pleasure for the Pharmaceutical Society of Japan (PSJ) to launch the e-mail magazine "Newsletter" of *Biological and Pharmaceutical Bulletin* (BPB). The purpose of the "Newsletter" is to send **the latest graphical abstracts of the journal**. We hope this "Newsletter" will provide informative hot topics to all the readers. Also, all of you are welcome to access the PSJ's scientific papers [through J-STAGE](#) as a reader, and to submit new manuscripts as an author. Finally, we are convinced that BPB will be very effective to the research activities of all the readers.

Best wishes,

Yoshinobu Takakura  
President,  
The Pharmaceutical Society of Japan



## Biological and Pharmaceutical Bulletin

THE PHARMACEUTICAL SOCIETY OF JAPAN

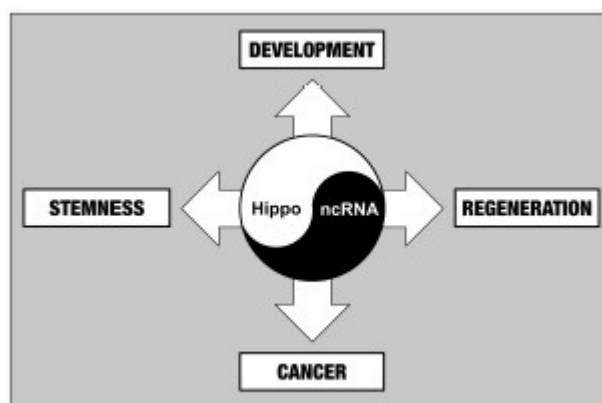


Sent Date: January 1, 2020  
The latest issue of Biol. Pharm. Bull.  
**Vol. 43 No. 1**

### Review

[The Emerging Link between the Hippo Pathway and Non-coding RNA](#)

Mayuko Shimoda and Toshiro Moroishi



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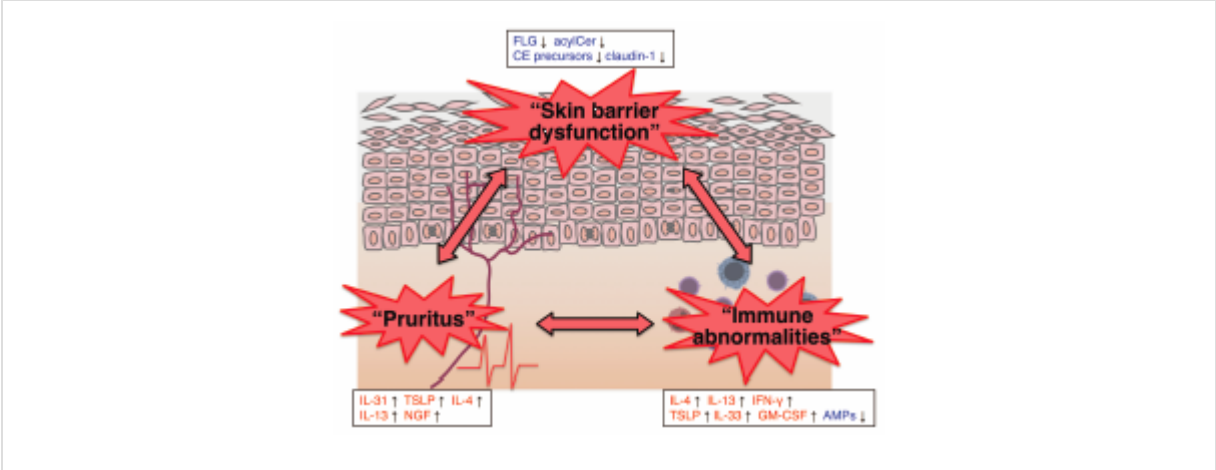
**Current Topics "Recent Advances in Research on the Mechanisms and Regulation of Allergic Diseases"**

Takeshi Nabe

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[Current Understanding of Pathophysiological Mechanisms of Atopic Dermatitis: Interactions among Skin Barrier Dysfunction, Immune Abnormalities and Pruritus](#)

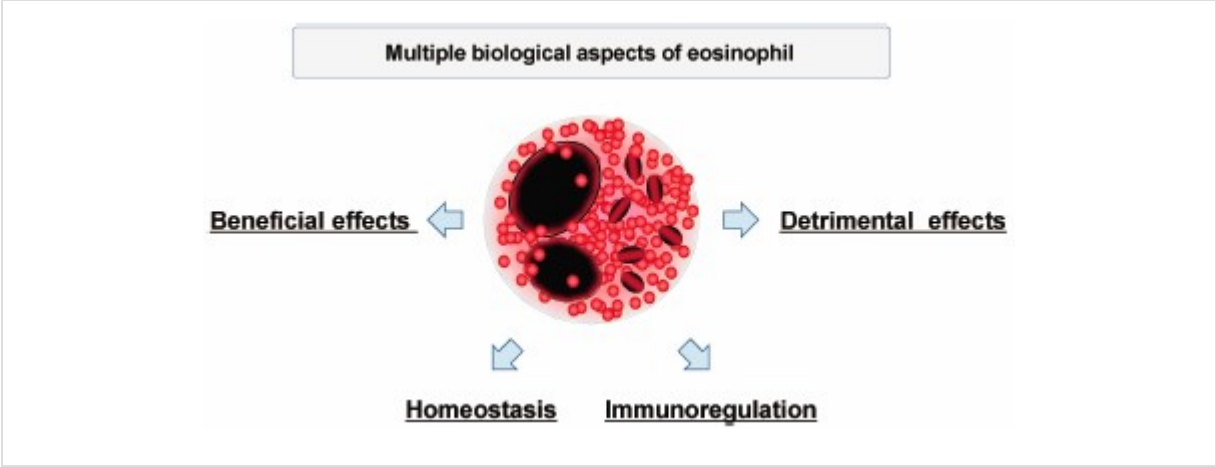
Masanori Fujii



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[Multiple Biological Aspects of Eosinophils in Host Defense, Eosinophil-Associated Diseases, Immunoregulation, and Homeostasis: Is Their Role Beneficial, Detrimental, Regulator, or Bystander?](#)

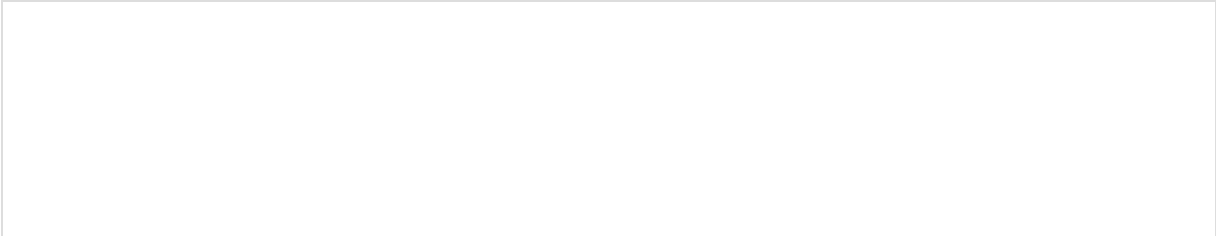
Akira Kanda, Yun Yasutaka, Dan Van Bui, Kensuke Suzuki, Shunsuke Sawada, Yoshiki Kobayashi, Mikiya Asako, and Hiroshi Iwai

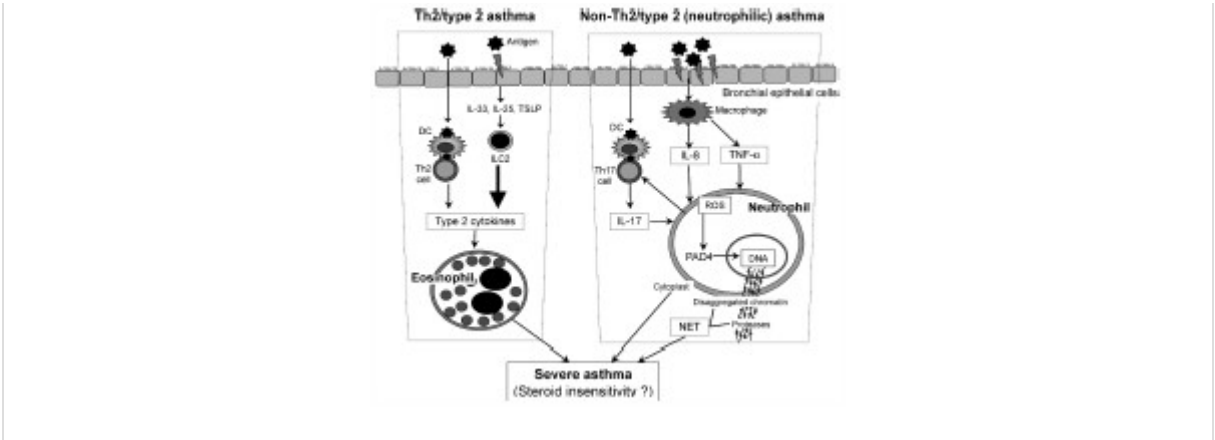


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[Steroid-Resistant Asthma and Neutrophils](#)

Takeshi Nabe

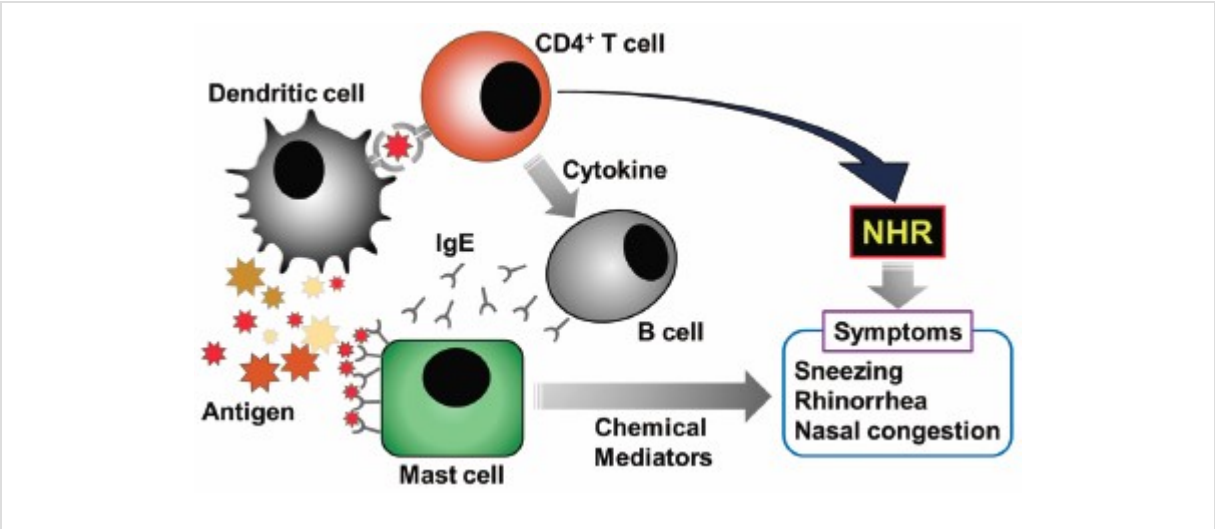




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[T Cell-Mediated Nasal Hyperresponsiveness in Allergic Rhinitis](#)

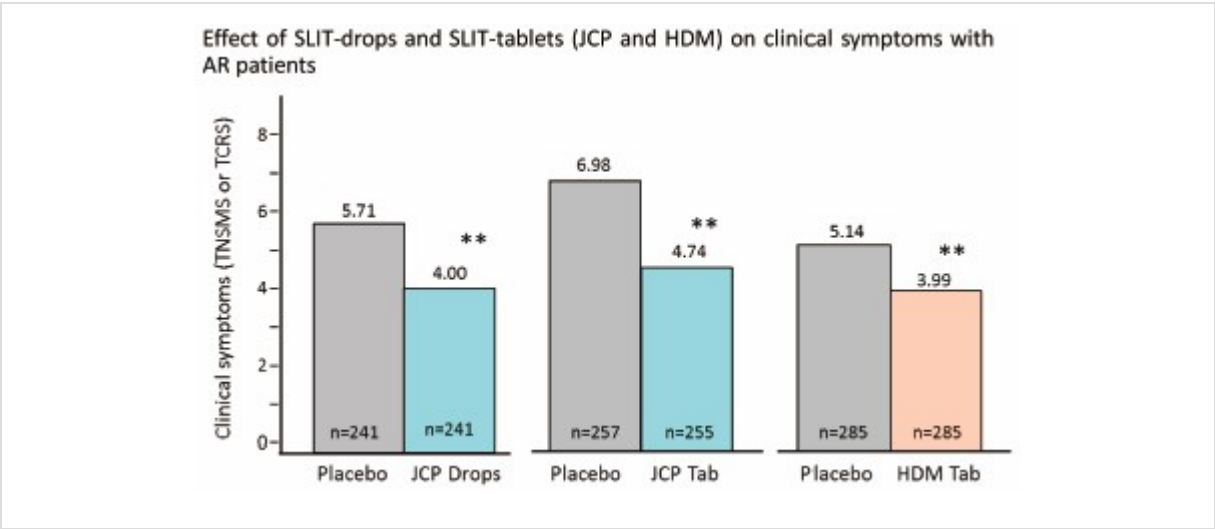
Osamu Kaminuma, Tomoe Nishimura, Mayumi Saeki, Akio Mori, and Takachika Hiroi



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[State of the Art: Development of a Sublingual Allergy Immunotherapy Tablet for Allergic Rhinitis in Japan](#)

Katsuyo Ohashi-Doi, Kaare Lund, Yuko Mitobe, and Kazuhiro Okamiya

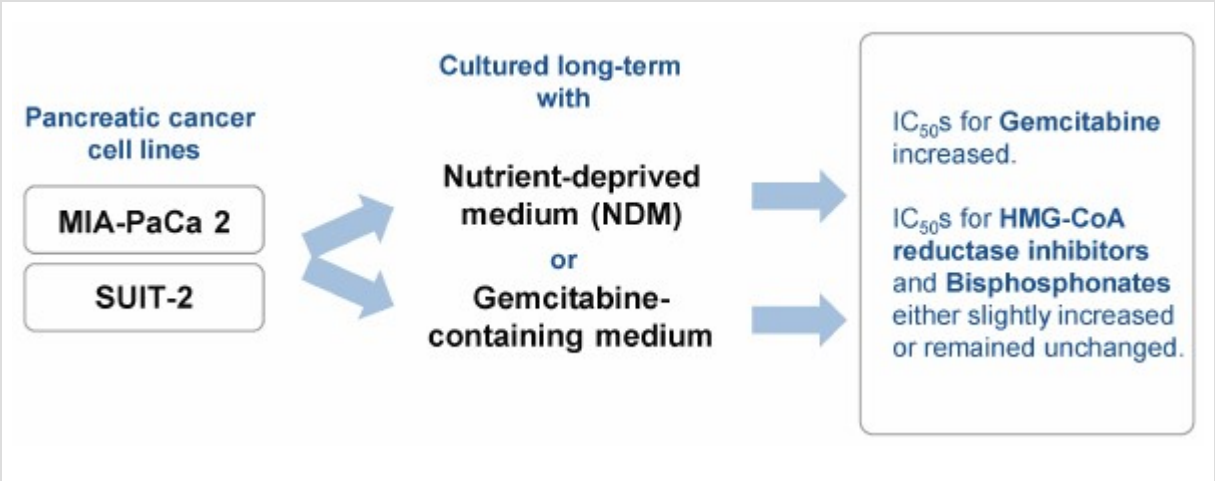


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Regular Articles

[Anti-tumor Activities of 3-Hydroxy-3-methylglutaryl Coenzyme A \(HMG-CoA\) Reductase Inhibitors and Bisphosphonates in Pancreatic Cell Lines Which Show Poor Responses to Gemcitabine](#)

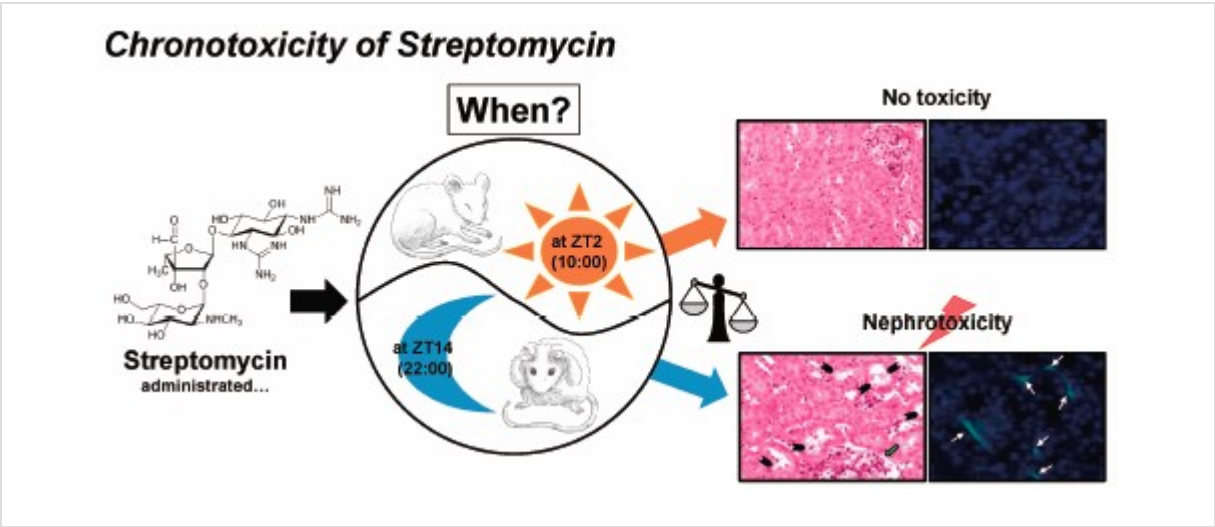
Takehiro Kawashiri, Ayumi Tokunaga, Daisuke Kobayashi, and Takao Shimazoe



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[Chronotoxicity of Streptomycin-Induced Renal Injury in Mice](#)

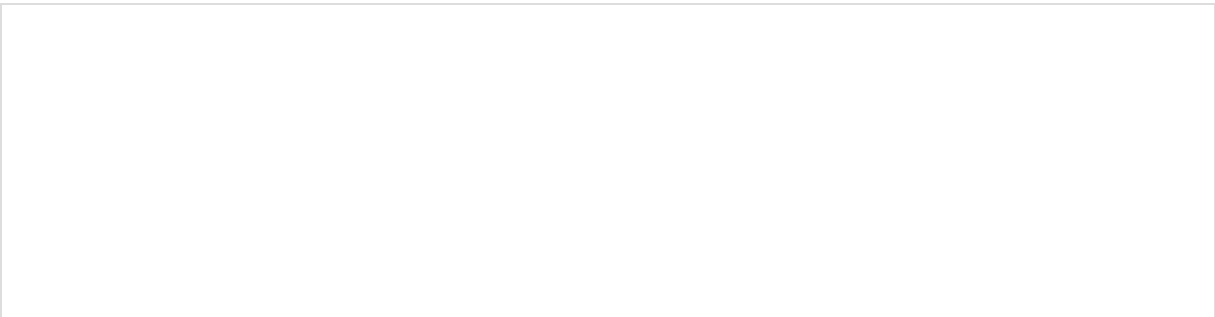
Hiroki Yoshioka, Sarah Tominaga, Yasuro Shinohara, Gi-Wook Hwang, Tohru Maeda, and Nobuhiko Miura

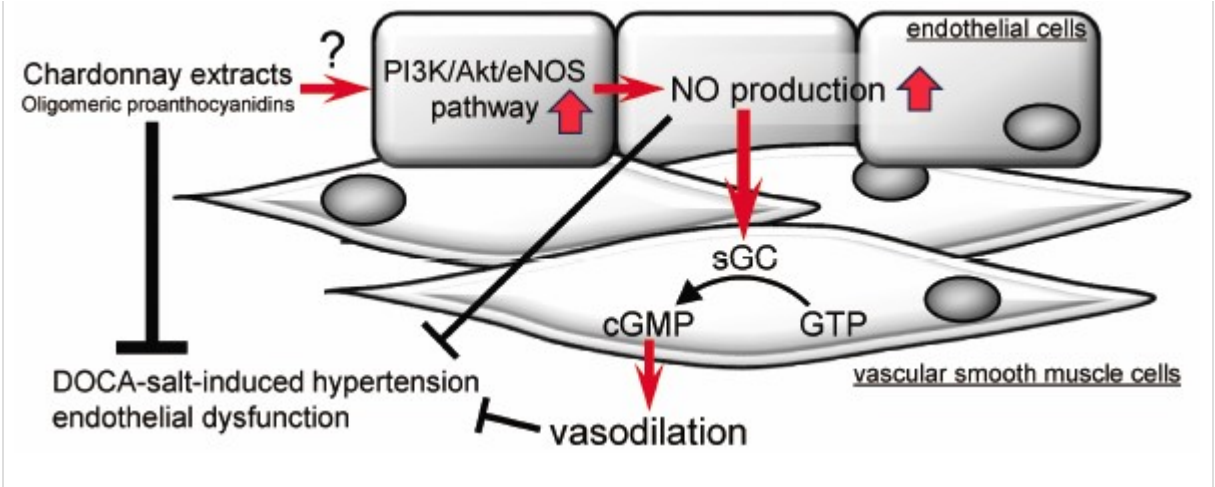


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[Grape Extract from Chardonnay Seeds Restores Deoxycorticosterone Acetate–Salt-Induced Endothelial Dysfunction and Hypertension in Rats](#)

Akihiro Sato, Satoshi Nishioka, Mika Kiuchi, Yuki Imada, Kotaro Makino, Keisuke Nakagawa, Ryosuke Tanaka, Yasuo Matsumura, and Mamoru Ohkita

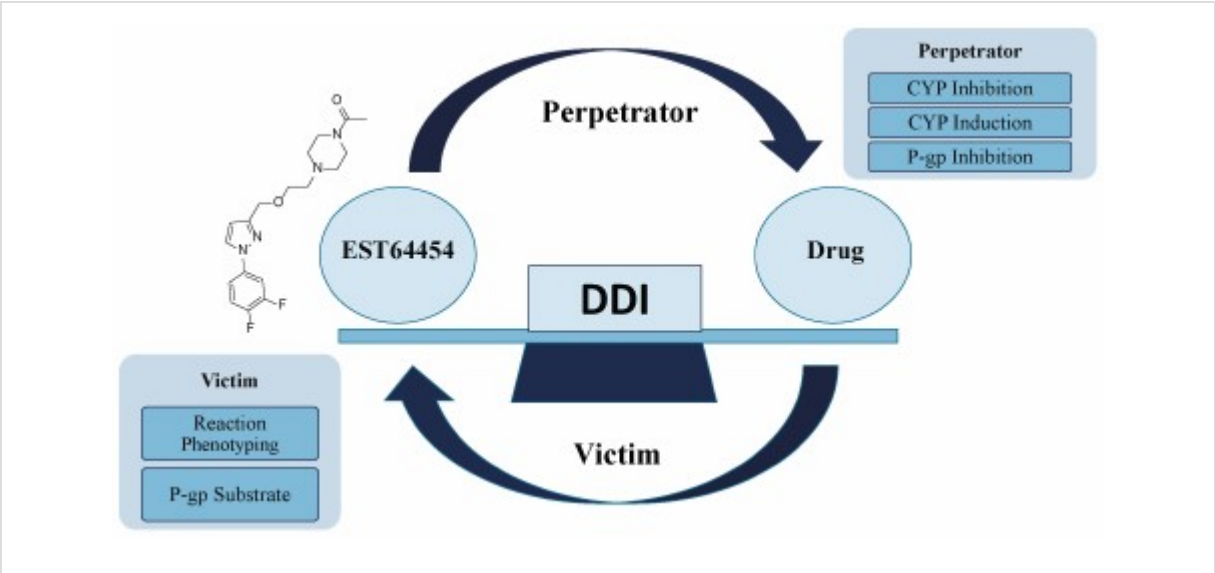




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[Preliminary \*in Vitro\* Assessment of the Potential of EST64454, a Sigma-1 Receptor Antagonist, for Pharmacokinetic Drug–Drug Interactions](#)

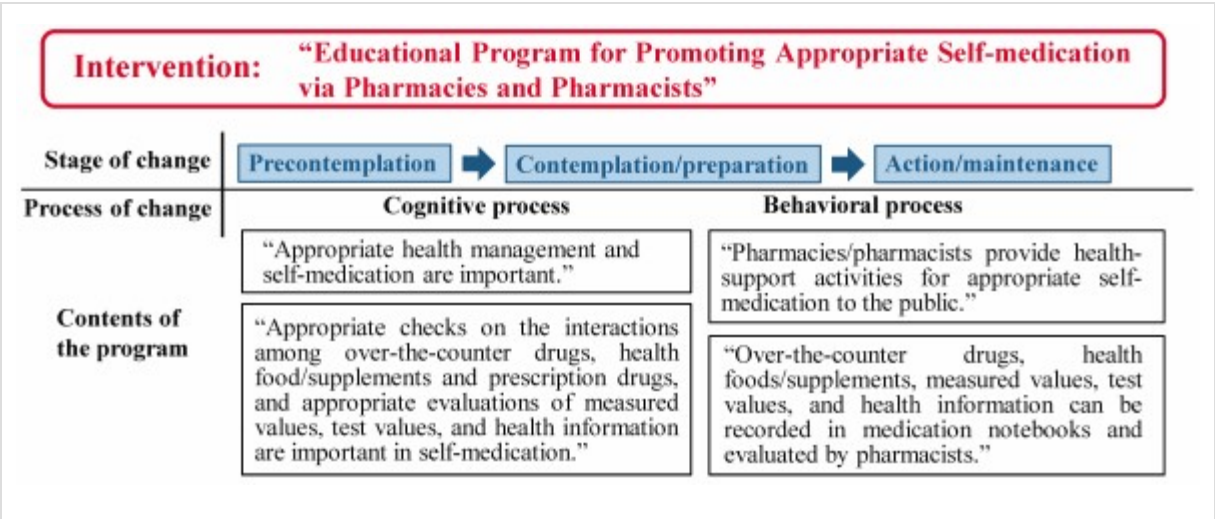
Sandra Yeste, Raquel F. Reinoso, Eva Ayet, Maria José Pretel, Ariadna Balada, and Maria Teresa Serafini



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[Developing and Verifying the Efficacy of “Educational Program for Promoting Appropriate Self-medication via Pharmacies and Pharmacists”: A Randomized Controlled Trial](#)

Tomoya Tachi, Yoshihiro Noguchi, and Hitomi Teramachi








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[Rapid On-Site Monitoring of Bacteria in Freshwater Environments Using a Portable Microfluidic Counting System](#)

Nobuyasu Yamaguchi and Yudai Fujii

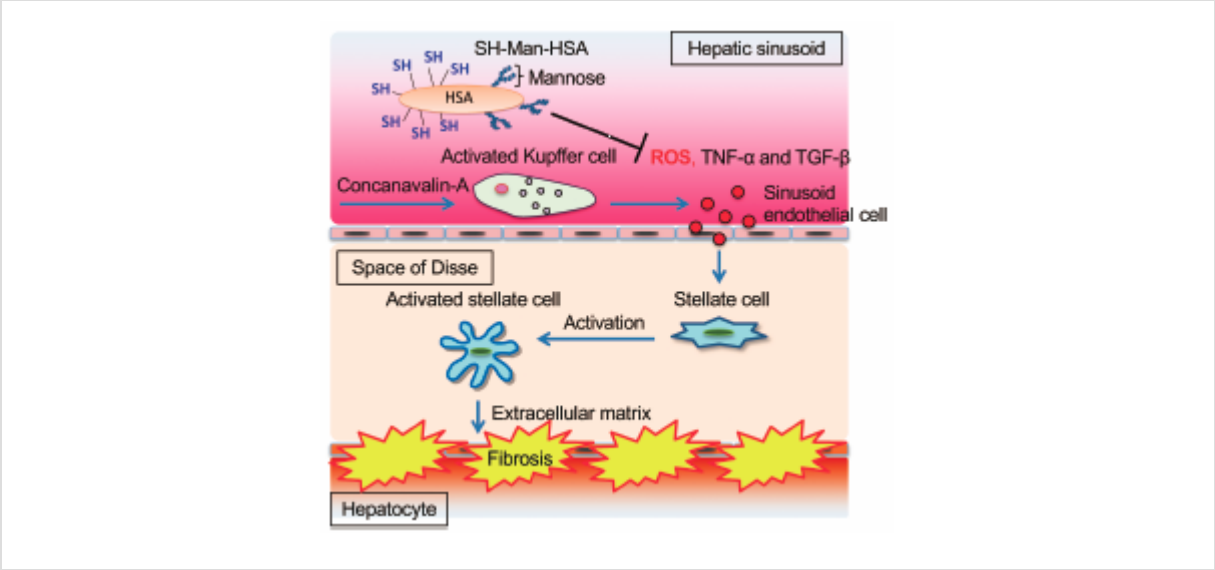
**Significant concern:**  
**Microbiological monitoring is fundamental for the routine evaluation of microbiological water quality**

Culture-dependent	Microscopy	On-chip staining and counting
		
> 7 days to obtain results	labor-consuming	rapid on-site monitoring

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[Repeated Administration of Kupffer Cells-Targeting Nanoantioxidant Ameliorates Liver Fibrosis in an Experimental Mouse Model](#)

Hitoshi Maeda, Yuki Minayoshi, Shota Ichimizu, Yuki Mizuta, Taisei Nagasaki, Kotaro Matsusaka, Shun Oshiro, Kentaro Oniki, Junji Saruwatari, Yu Ishima, Hiroshi Watanabe, Masaki Otagiri, and Toru Maruyama

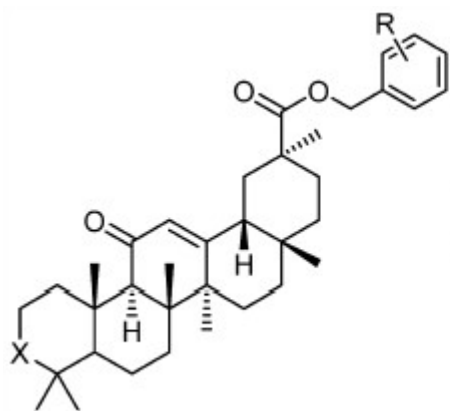


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[Design, Preparation and Studies Regarding Cytotoxic Properties of Glycyrrhetic Acid Derivatives](#)

Qing-Xuan Zheng, Rui Wang, Yan Xu, Chang-Xin He, Cai-Yun Zhao, Zhi-Fang Wang, Rui Zhang, Wim Dehaen, Hui-Jing Li, and Qi-Yong Huai





Eighteen Compounds

For HeLa: **6g** and **8b** show better activity than doxorubicin

For MDA-MB-231: **7a** show better activity than gefitinib

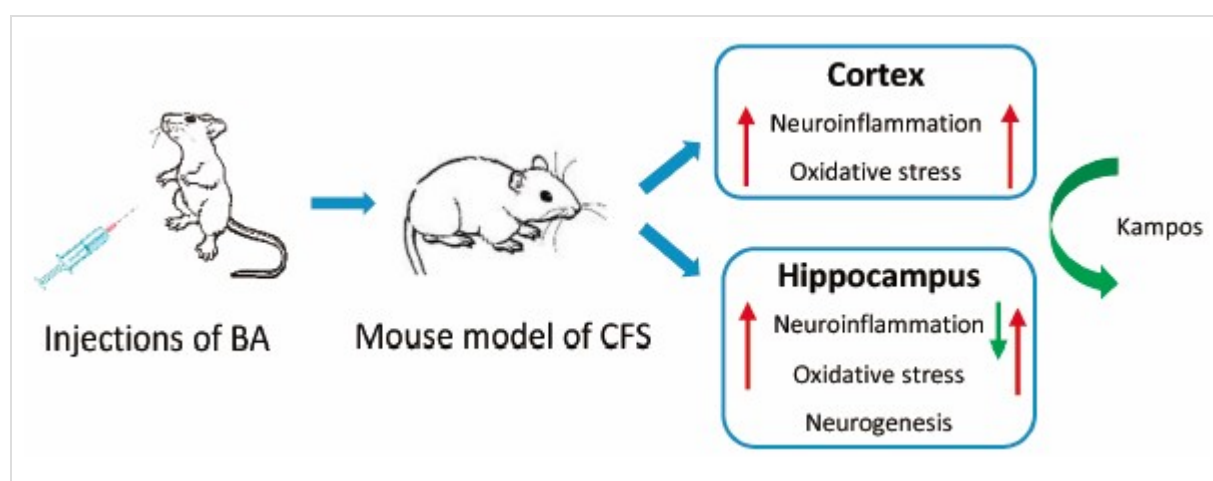
**6g** and **8b** show high selectivity to MDA-MB-231 cells

**6g** induces apoptosis in 44% of MDA-MB-231 cells at 20  $\mu$ M

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## [Neuroinflammation, Oxidative Stress, and Neurogenesis in a Mouse Model of Chronic Fatigue Syndrome, and the Treatment with Kampo Medicine](#)

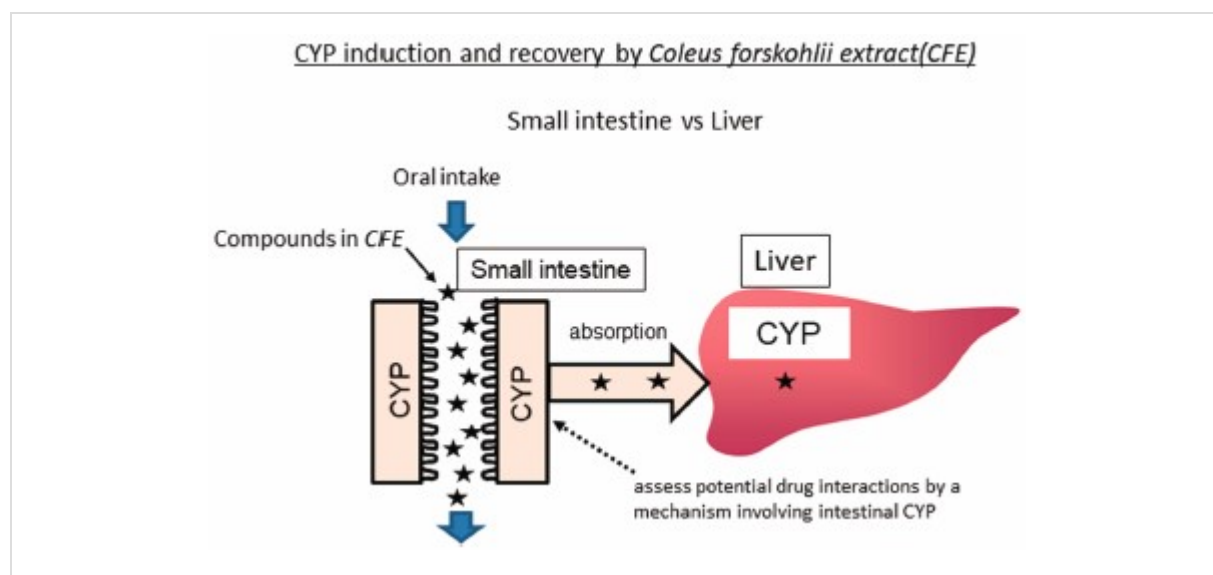
Qiang He, Mio Sawada, Naruhiro Yamasaki, Sumiyo Akazawa, Hisakazu Furuta, Hiroaki Uenishi, Xiangjin Meng, Takeshi Nakahashi, Yasuhito Ishigaki, and Junji Moriya



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## [Comparison of CYP Induction by \*Coleus forskohlii\* Extract and Recovery in the Small Intestine and Liver of Mice](#)

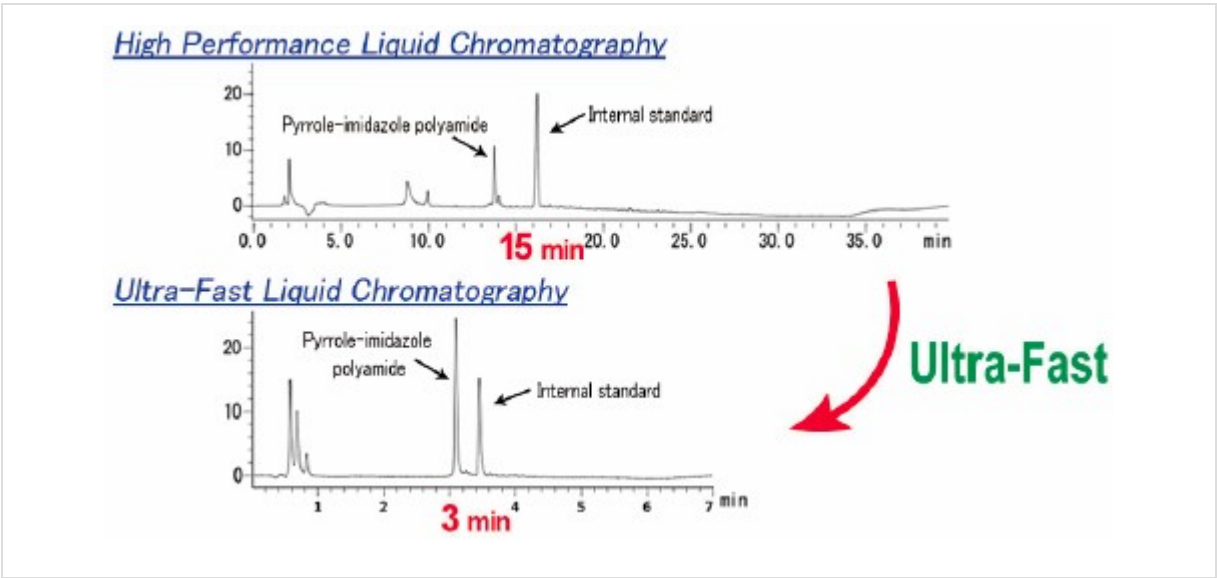
Kaori Yokotani, Yuko Yamazaki, Fumio Shimura, and Keizo Umegaki



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[Method of Determining Pyrrole-Imidazole Polyamide in Rat Plasma Using Ultra-Fast Liquid Chromatography-Ultraviolet Spectrometry](#)

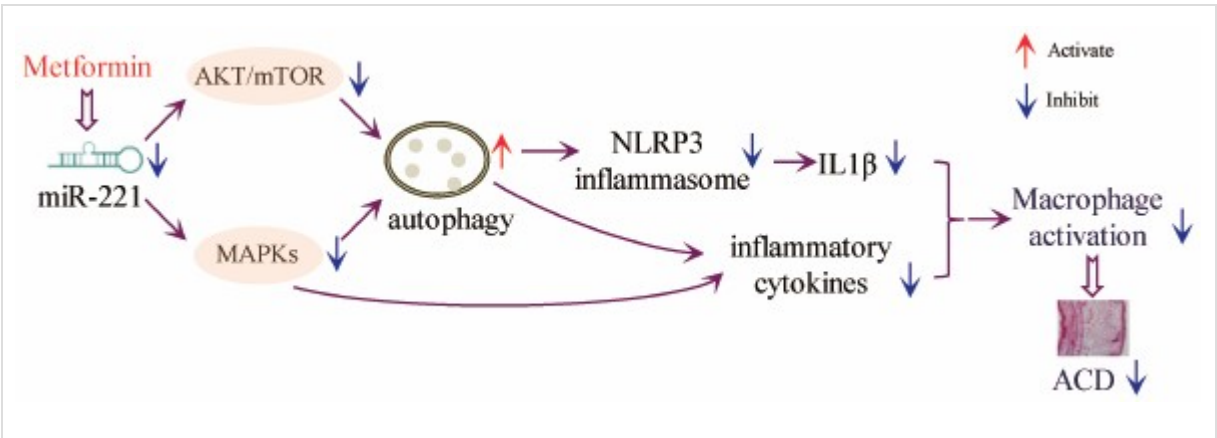
Aoi Miyamoto, Kouta Yagishita, Takahiko Aoyama, Masanori Abe, Noboru Fukuda, and Yoshiaki Matsumoto



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[Metformin Suppresses LPS-Induced Inflammatory Responses in Macrophage and Ameliorates Allergic Contact Dermatitis in Mice via Autophagy](#)

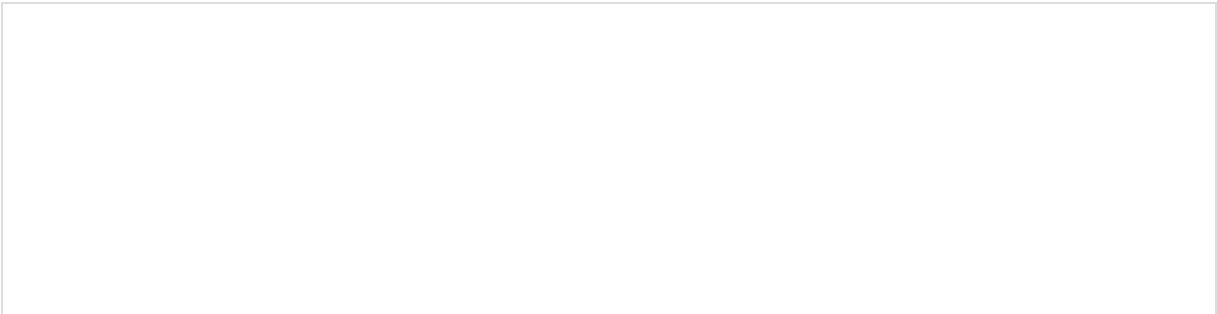
Mengjie Wang, Shulan Qu, Jun Ma, Xiaoyu Wang, and Yifu Yang



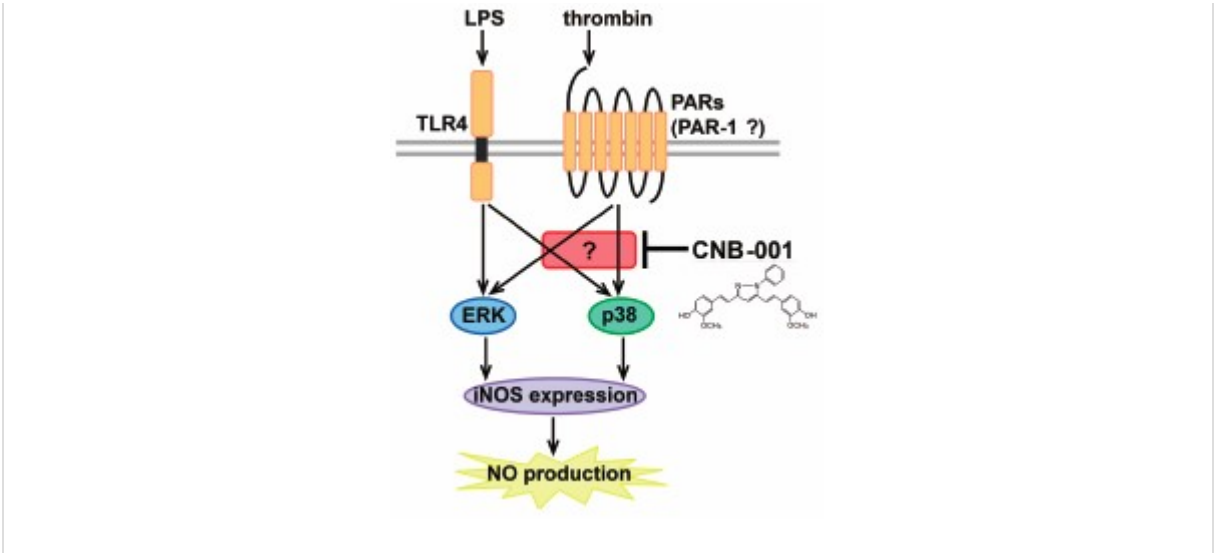
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[The Synthetic Curcumin Derivative CNB-001 Attenuates Thrombin-Stimulated Microglial Inflammation by Inhibiting the ERK and p38 MAPK Pathways](#)

Tatsuhiro Akaishi, Shohei Yamamoto, and Kazuho Abe



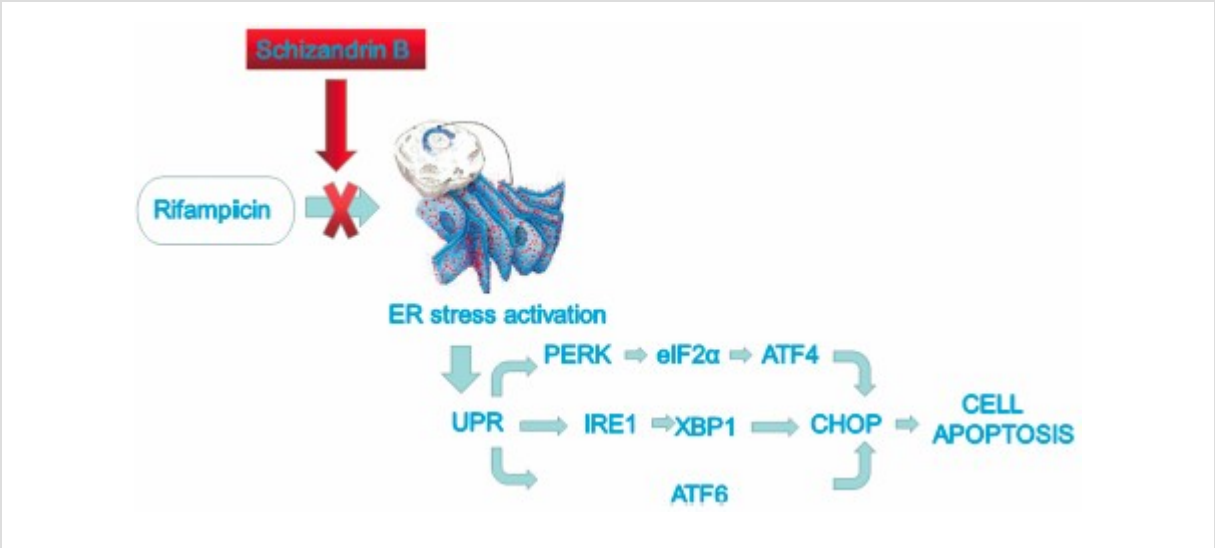




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[Schizandrin B Mitigates Rifampicin-Induced Liver Injury by Inhibiting Endoplasmic Reticulum Stress](#)

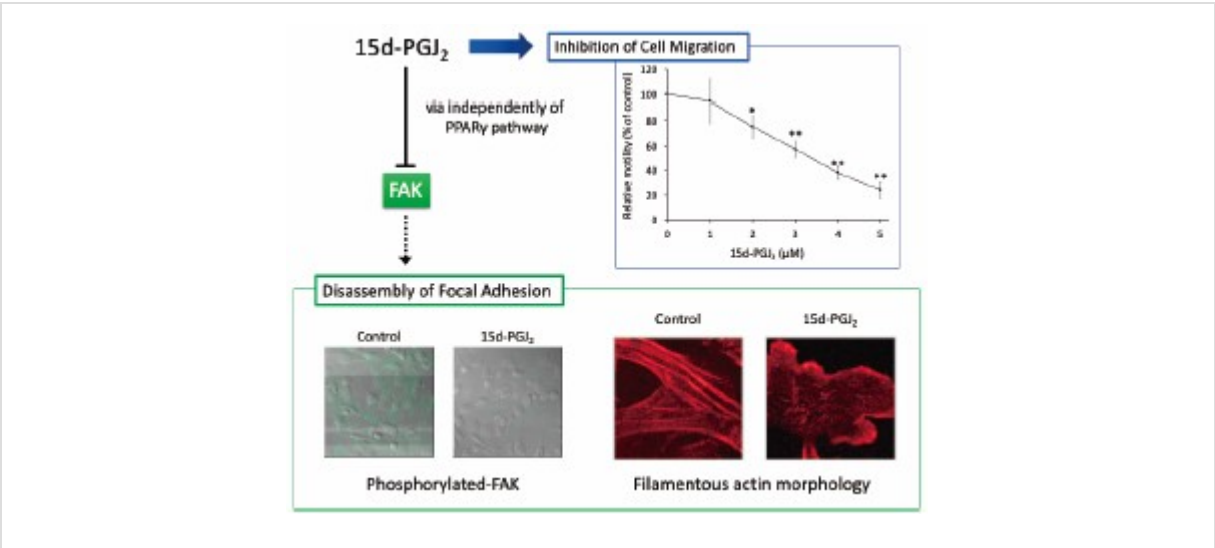
Ling Cheng, Zhizhou Yang, Zhaorui Sun, Wei Zhang, Yi Ren, Mengmeng Wang, Xiaoqin Han, Libo Fei, Yang Zhao, Hui Pan, Ji Xie, and Shinan Nie



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[15-Deoxy- \$\Delta^{12,14}\$ -prostaglandin J<sub>2</sub> Inhibits Cell Migration on Renal Cell Carcinoma via Down-Regulation of Focal Adhesion Kinase Signaling](#)

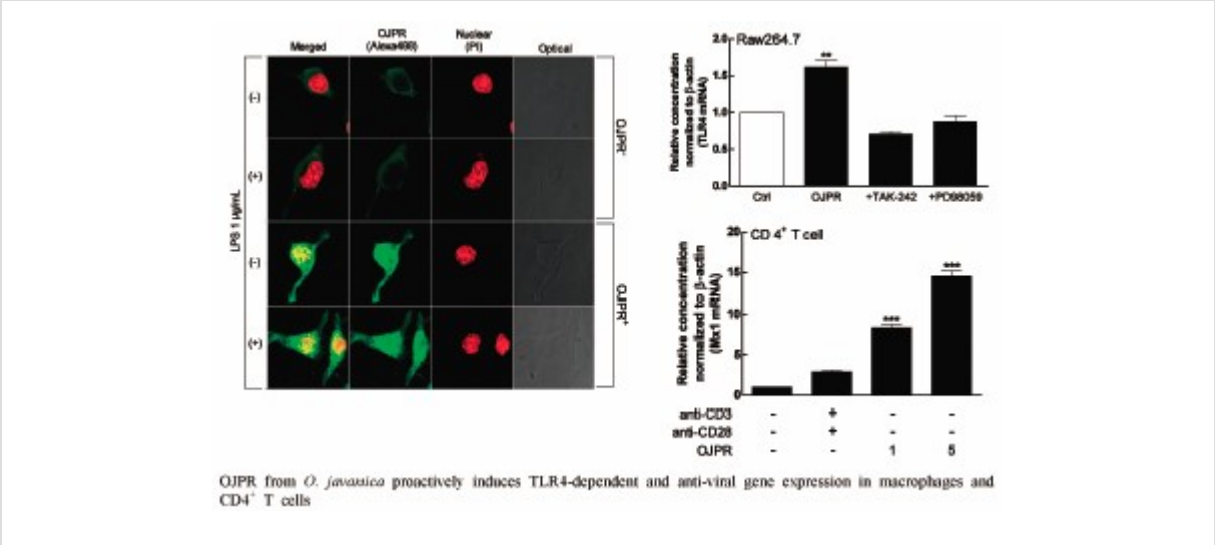
Yasuhiro Yamamoto, Hiromi Koma, and Tatsurou Yagami



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Cloning, Expression, and Purification of a Pathogenesis-Related Protein from *Oenanthe javanica* and Its Biological Properties

Bo Ram Jo, Jung Min Yu, Sukil Jang, Jeong Won Ahn, Hyun Soo Kim, Eun A Seoung, Hee Yong Park, Deuk Hee Jin, and Seong Soo Joo

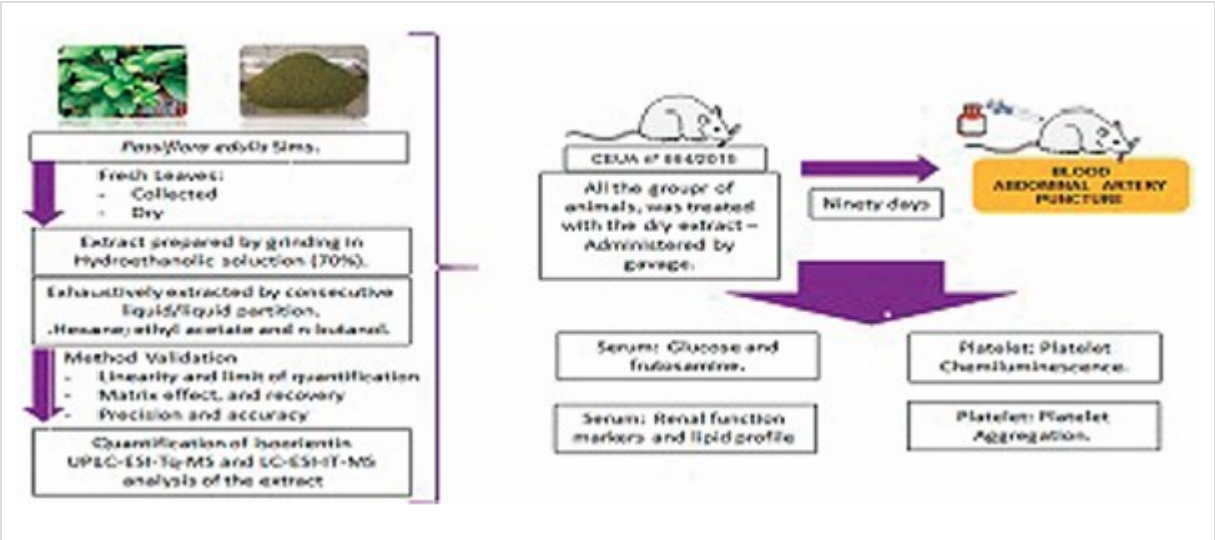


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Notes

*Passiflora edulis* Leaf Extract: Evidence of Antidiabetic and Antiplatelet Effects in Rats

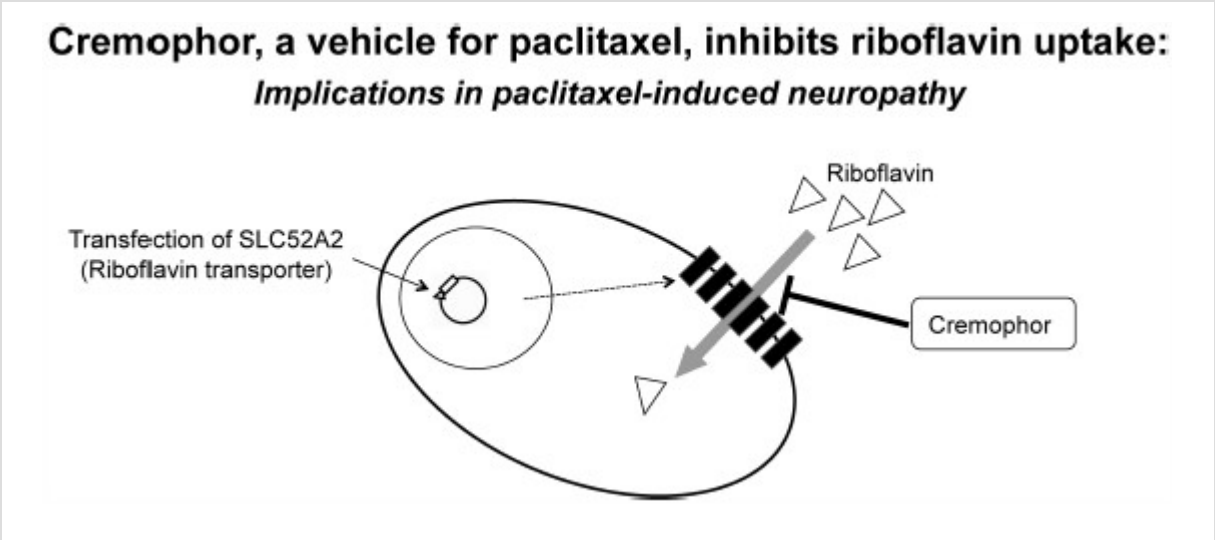
Bruno Cesar Correa Salles, Marcelo Aparecido da Silva, Lara Taniguthi, Juliane Naiara Ferreira, Claudia Quintino da Rocha, Wagner Vilegas, Pollyana Hammoud Dias, Paula Comune Pennacchi, Stella Maris da Silveira Duarte, Maria Rita Rodrigues, Maísa Ribeiro Pereira Lima Brigagão, and Fernanda Borges de Araújo Paula



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*In Vitro* Effects of Paclitaxel and Cremophor EL on Human Riboflavin Transporter SLC52A2

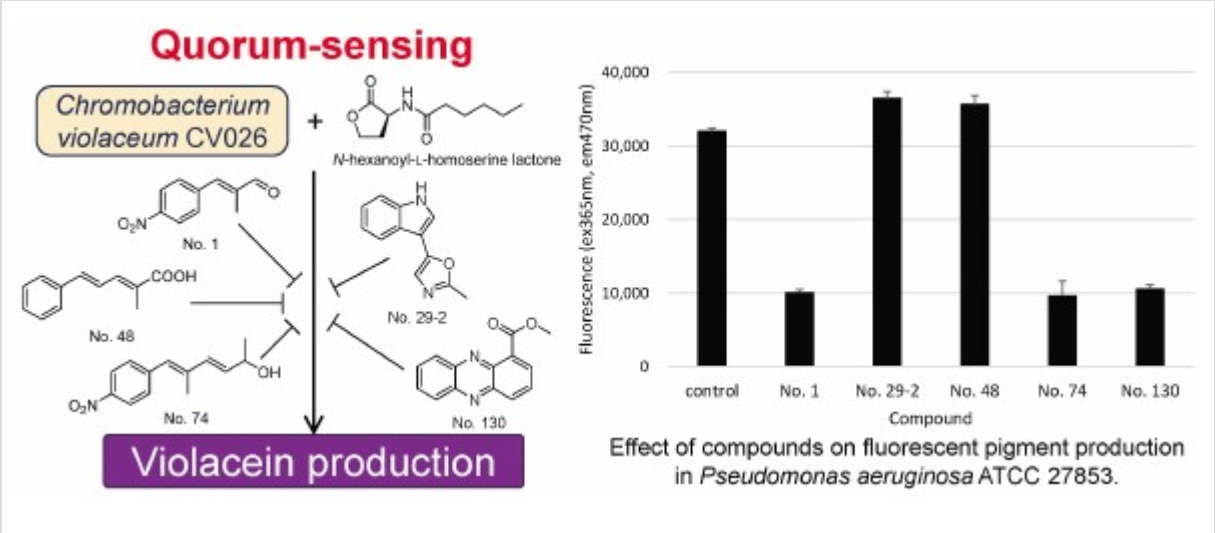
Hitomi Hino, Mingdong Yang, Pooja Dalvi, Tongtong Chen, Linda Sun, Patricia A. Harper, and Shinya Ito



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[Quorum Sensing Inhibitors against \*Chromobacterium violaceum\* CV026 Derived from an Actinomycete Metabolite Library](#)

Toshiko Ohta, Atsushi Fukumoto, Yohei Iizaka, Fumio Kato, Yasumasa Koyama, and Yojiro Anzai

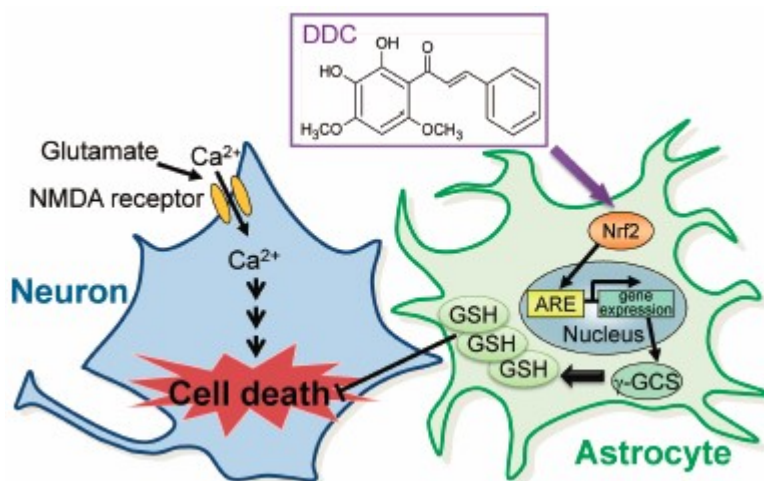


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[Protective Effect of 2',3'-Dihydroxy-4',6'-dimethoxychalcone on Glutamate-Induced Neurotoxicity in Primary Cortical Cultures](#)

Kazuya Taguchi, Yasuhiko Izumi, Yuki Takada-Takatori, Akinori Akaike, and Toshiaki Kume

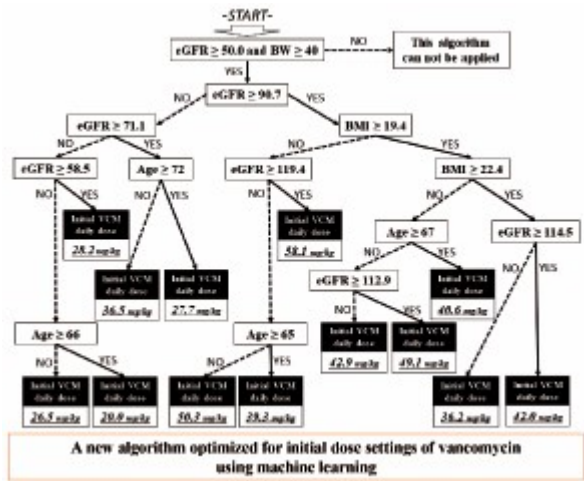




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[A New Algorithm Optimized for Initial Dose Settings of Vancomycin Using Machine Learning](#)

Shungo Imai, Yoh Takekuma, Takayuki Miyai, and Mitsuru Sugawara



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