

Curriculum Vitae (September 1st, 2022)

Satoshi SHIMIZU, Ph.D.

Research Assistant Professor

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Education

Ph.D. in Pharmaceutical Science, March 2022

University of Shizuoka, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, Shizuoka, Japan (Prof. Tatsuya Morimoto)

Master of Science in Pharmaceutical Science, March 2018

University of Shizuoka, Graduate School of Integrated Pharmaceutical and Nutritional Sciences, Shizuoka, Japan (Prof. Tatsuya Morimoto)

Bachelor of Science of Pharmaceutical Science, March 2016

University of Shizuoka, School of Pharmaceutical Sciences, Shizuoka, Japan (Prof. Tatsuya Morimoto)

Professional Experience

2022/9-present

Assistant Professor, University of Shizuoka, School of Pharmaceutical Sciences, Shizuoka, Japan (Prof. Junko Kurokawa)

2022/4 - 2022/8

Postdoctoral fellow, The Jikei University School Medicine, Department of Laboratory Medicine, Tokyo, Japan (Assoc. Prof. Shushi Nagamori)

Honors and Awards

1. Biofunction and Drug Discovery symposium 2022, Best Presentation Award, 2022
2. 142nd Annual Meeting of the Pharmaceutical Society of Japan, Student Best Presentation Award, 2022
3. The 31st Annual Meeting of Japanese Association of Cardiovascular Pharmacology, Young Investigator Award, 2021
4. Biofunction and Drug Discovery symposium 2021, Poster Presentation Award, 2021
5. The 6th Japan Cardiovascular Association, Young Investigator Award, 2021
6. The 143rd Kanto Regional Meeting of the Japanese Pharmacological Society, Young Investigator Award, 2020
7. The 24th Shizuoka Forum on Health and Longevity, Best Presentation Award, 2019
8. 21st Annual Symposium of Pharmacometrics, Best Poster Presentation Award, 2019
9. Kowa Life Science Foundation, International Association Grand, 2019
10. 139th Annual Meeting of the Pharmaceutical Society of Japan, Student Best Presentation Award, 2019
11. The 23rd Shizuoka Forum on Health and Longevity, Best Presentation Award, 2018
12. The 4th International Conference on Pharma-Food 2018, Poster Presentation Award, 2018
13. The Pharmaceutical Society Japan Tokai Branch together with Japanese Society of Hospital Pharmacists Tokai Block 2018, Best Presentation Award, 2018
14. IUBMB Focused Meeting on GATA Transcription Factors, Travel Award, 2018
15. Asian Pacific Society of Cardiology Congress 2018, First Prize of the Moderated Poster Competition, 2018
16. 1st Japan Circulation Society Council Forum on Basic Cardio Vascular Research, Poster Award, 2018
17. Quantum Beam Science Festa 2016, Student Encouragement Award, 2017

Publications

1. Yoichi Sunagawa, Nobuko Okamura, Yusuke Miyazaki, Kana Shimizu, Mai Genpei, Masafumi Funamoto, **Satoshi Shimizu**, Yasufumi Katanasaka, Eriko Morimoto, Hajime Yamakage, Maki Komiyama, Noriko Satoh-Asahara, Hiromichi Wada, Mika Suzuki, Koji Hasegawa, Tatsuya Morimoto*, Effects of Products Containing Bacillus subtilis var. natto on Healthy Subjects with Neck and Shoulder Stiffness, a Double-Blind, Placebo-Controlled, Randomized Crossover Study, *Biological and Pharmaceutical Bulletin*, 2018, 41, 504-509
2. Yoichi Sunagawa, Masafumi Funamoto, Shogo Sono, Kana Shimizu, **Satoshi Shimizu**, Mai Genpei, Yusuke Miyazaki, Yasufumi Katanasaka, Eriko Morimoto, Morio Ueno, Maki Komiyama, Hideaki Kakeya, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, Curcumin and its demethoxy derivatives possess p300 HAT inhibitory activity and suppress hypertrophic responses in cardiomyocytes, *Journal of Pharmacological Sciences*, 2018, 136, 212-217
3. Kana Shimizu, Masafumi Funamoto, Yoichi Sunagawa, **Satoshi Shimizu**, Yasufumi Katanasaka, Yusuke Miyazaki, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, Anti-inflammatory Action of Curcumin and Its Use in the Treatment of Lifestyle-related Diseases, *European Cardiology Review*, 2019, 14, 117-122
4. Yasufumi Katanasaka, Yusuke Miyazaki, Yoichi Sunagawa, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Nurmila Sari, Yasuo Shimizu, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, Kosencha, a Polymerized Catechin-Rich Green Tea, as a Potential Functional Beverage for the Reduction of Body Weight and Cardiovascular Risk Factors: A Pilot Study in Obese Patients, *Biological and Pharmaceutical Bulletin*, 2020, 43, 675-681
5. Kana Shimizu, Yoichi Sunagawa, Masafumi Funamoto, Hiroki Wakabayashi, Mai Genpei, Yusuke Miyazaki, Yasufumi Katanasaka, Nurmila Sari, **Satoshi Shimizu**, Ayumi Katayama, Hiroyuki Shibata, Yoshiharu Iwabuchi, Hideaki Kakeya, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, The Synthetic Curcumin Analogue GO-Y030 Effectively Suppresses the Development of Pressure Overload-induced Heart Failure in Mice, *Scientific Reports*, 2020, 10, 7172

6. Nurmila Sari, Yasufumi Katanasaka, Hiroki Honda, Yusuke Miyazaki, Yoichi Sunagawa, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, Cacao Bean Polyphenols Inhibit Cardiac Hypertrophy and Systolic Dysfunction in Pressure Overload-induced Heart Failure Model Mice, *Plants Medica*, 2020, 86, 1304-1312
7. Masafumi Funamoto, Yoichi Sunagawa, Yasufumi Katanasaka, Kana Shimizu, Yusuke Miyazaki, Nurmila Sari, **Satoshi Shimizu**, Kiyoshi Mori, Hidemichi Wada, Koji Hasegawa, Tatsuya Morimoto*, Histone Acetylation Domains Are Differentially Induced during Development of Heart Failure in Dahl Salt-Sensitive Rats, *International Journal of Molecular Sciences*, 2021, 22, 1771
8. Yoichi Sunagawa, Kiyotaka Shimizu, Ayumi Katayama, Masafumi Funamoto, Kana Shimizu, Sari Nurmila, **Satoshi Shimizu**, Yusuke Miyazaki, Yasufumi Katanasaka, Koji Hasegawa, Tatsuya Morimoto*, Metformin suppresses phenylephrine-induced hypertrophic responses by inhibiting p300-HAT activity in cardiomyocytes, *Journal of Pharmacological Sciences*, 2021, 147, 169-175
9. Yoichi Sunagawa, Yusuke Miyazaki, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Sari Nurmila, Yasufumi Katanasaka, Masashi Ito, Tatsuya Ogawa, Hitomi Ozawa-Umeta, Koji Hasegawa, Tatsuya Morimoto*, A novel amorphous preparation improved curcumin bioavailability in healthy volunteers: A single-dose, double-blind, two-way crossover study, *Journal of Functional Foods*, 2021, 81, 104443
10. Yoichi Sunagawa, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Nurmila Sari, Yasufumi Katanasaka, Yusuke Miyazaki, Hideaki Kakeya, Koji Hasegawa, Tatsuya Morimoto*, Curcumin, an Inhibitor of p300-HAT Activity, Suppresses the Development of Hypertension-Induced Left Ventricular Hypertrophy with Preserved Ejection Fraction in Dahl Rats, *Nutrients*, 2021, 13, 2608
11. Nurmila Sari, Yasufumi Katanasaka, Yuga Sugiyama, Yoichi Sunagawa, Yusuke Miyazaki, Masafumi Funamoto, **Satoshi Shimizu**, Kana Shimizu, Akira Murakami, Kiyoshi Mori, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, Zerumbone prevents pressure overload-induced left ventricular systolic dysfunction by inhibiting cardiac hypertrophy and fibrosis, *Phytomedicine*, 2021, 92, 153744

12. Nurmila Sari, Yasufumi Katanasaka, Yuga Sugiyama, Yusuke Miyazaki, Yoichi Sunagawa, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Koji Hasegawa, Tatsuya Morimoto*, Alpha Mangostin Derived from *Garcinia magostana* Linn Ameliorates Cardiomyocyte Hypertrophy and Fibroblast Phenotypes in Vitro, *Biological and Pharmaceutical Bulletin*, 2021, 44, 1465-1472
13. Yasufumi Katanasaka, Naoki Yoshida, Hirotaka Naitou, Ryuya Naruta, Yusuke Miyazaki, Yoichi Sunagawa, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Nurmila Sari, Hajime Yamakage, Noriko Satoh-Asahara, Koji Hasegawa, Tatsuya Morimoto*, Effect of Theaflavin on Oral Bacteria in Japanese Subjects: A Randomized, Placebo-Controlled, Double-Blind Study, *Journal of Medicinal Food*, 2021, 24, 1186-1190
14. Yasufumi Katanasaka, Sae Hirano, Yoichi Sunagawa, Yusuke Miyazaki, Hikaru Sato, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Nurmila Sari, Koji Hasegawa, Tatsuya Morimoto*, Clinically Administered Doses of Pitavastatin and Rosuvastatin, *International Heart Journal*, 2021, 62, 1379-1386
15. Kana Shimizu, Yoichi Sunagawa, Masafumi Funamoto, Hiroki Honda, Yasufumi Karanasaka, Noriyuki Murai, Yuto Kawase, Yuta Hirako, Takahiro Katagiri, Harumi Yabe, **Satoshi Shimizu**, Nurmila Sari, Hiromichi Wada, Koji Hasegawa, Tatsuya Morimoto*, The Selective Serotonin 2A Receptor Antagonist Sarpogrelate Prevents Cardiac Hypertrophy and Systolic Dysfunction via Inhibition of the ERK1/2-GATA4 Signaling Pathway, *Pharmaceuticals(Basel)*, 2021, 14, 1268
16. **Satoshi Shimizu**, Yoichi Sunagawa, Naruto Hajika, Natsumi Yorimitsu, Yasufumi Katanasaka, Masafumi Funamoto, Yusuke Miyazaki, Nurmila Sari, Kana Shimizu, Koji Hasegawa, Tatsuya Morimoto*, Multimerization of the GATA4 transcription factor regulates transcriptional activity and cardiomyocyte hypertrophic response, *International Journal of Biological Sciences*, 2022, 18, 1079-1095 [cover future]
17. Masaya Ono, Yoichi Sunagawa, Saho Mochizuki, Takahiro Katagiri, Hidemichi Takai, Sonoka Iwashimizu, Kyoko Inai, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Yasufumi Katanasaka, Maki Komiyama, Philip Hawke, Hideo Hara, Yoshiko Arakawa, Kiyoshi Mori,

- Akira Asai, Koji Hasegawa, Tatsuya Morimoto*, Chrysanthemum morifolium Extract Ameliorates Doxorubicin-Induced Cardiotoxicity by Decreasing Apoptosis, *Cancers(Basel)*, 2022, 14, 683
18. Takahiro Katagiri, Yoichi Sunagawa, Tatsuya Maekawa, Masafumi Funamoto, **Satoshi Shimizu**, Kana Shimizu, Yasufumi Katanasaka, Maki Komiyama, Philip Hawke, Hideo Hara, Kiyoshi Mori, Koji Hasegawa, Tatsuya Morimoto*, Ecklonia stolonifera Okamura Extract Suppresses Myocardial Infarction-Induced Left Ventricular Systolic Dysfunction by Inhibiting p300-HAT Activity, *Nutrients*, 2022, 14, 580
 19. Yoichi Sunagawa, Ayumi Katayama, Masafumi Funamoto, Kana Shimizu, **Satoshi Shimizu**, Sari Nurmila, Yasufumi Katanasaka, Yusuke Miyazaki, Ryota Hosomi, Koji Hasegawa, Tatsuya Morimoto, The Polyunsaturated Fatty Acids, EPA and DHA, Ameliorate Myocardial Infarction-induced Heart Failure by Inhibiting p300-HAT Activity in Rats, *The Journal of Nutritional Biochemistry*, 2022, 106, 109031
 20. Masafumi Funamoto, Yoichi Sunagawa, Mai Gempei, Kana Shimizu, Yasufumi Katanasaka, **Satoshi Shimizu**, Toshihide Hamabe-Horiike, Giovanni Appendino, Alberto Minassi, Andreas Koeberle, Maki Komiyama, Kiyoshi Mori, Koji Hasegawa, Tatsuya Morimoto, Pyrazole-Curcumin Suppresses Cardiomyocyte Hypertrophy by Disrupting the CDK9/CyclinT1 Complex, *Pharaceutics*, 2022, 14, 1269