

Curriculum Vitae

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1. Birth

June 6, 1995 (29)

2. Education

Ph.D.	Pharmacy	University of Shizuoka	2025
M.Ps.	Pharmaceutical Sciences	University of Shizuoka	2020
B.Ps.	Pharmaceutical Sciences	University of Shizuoka	2018

3. Job/Research Experience

2020-Present	University of Shizuoka (Research assistant professor, School of Pharmaceutical Sciences)
2020-2020	JSPS Research fellow (DC1)

4. Recent research interests

My current research interests include (1) controlling drug absorption at mucosal tissue such as gastrointestinal tract, respiratory tract, and nasal cavity, (2) establishing *in silico* modeling and simulation for drug absorption at mucosal tissue, and (3) oral peptide delivery.

5. Publication list (As of March 12th, 2025)

1. **Yamada K.**, Kihara T., Shinsato K., Yasui H., Shino M., Sato H., Onoue S. Nasal powder formulation employing microenvironmental pH-modifier for rapid absorption of mirtazapine. *Pharmaceutical Science Advances*, 100068 (2025)
2. Ueno K., Sugihara M., Matsushita T., **Yamada K.**, Sato H., Onoue S. Nanodispersion of lutein with use of metastable polymorph for improved dissolution and oral absorption. *Pharmaceutical Science Advances*, 100067 (2025)
3. **Yamada K.**, Kihara T., Hayashi Y., Sonobe K., Oozeki T., Okawara M., Uchida A., Sato H., Onoue

- S. Beclomethasone dipropionate-loaded colon-targeting UniORV[®] for effective treatment of colitis. *J. Drug Deliv. Sci. Technol.*, **95**: 105624 (2024)
4. **Yamada K.**, Hirata A., Sato H., Onoue S. Nanocarriers with long-term retention in the respiratory system. *Pharm. Dev. Technol.*, **29(5)**: 477-481 (2024)
 5. **Yamada K.**, Ristroph K.D., Kaneko Y., Lu H.D., Prud'homme R.K., Sato H., Onoue S. Pharmacokinetic control of orally dosed cyclosporine A with mucosal drug delivery system. *Biopharm. Drug Dispos.*, **45(3)**: 117-126 (2024)
 6. Sato H., **Yamada K.**, Miyake M., Onoue S. Recent advancements in the development of nanocarriers for mucosal drug delivery systems to control oral absorption. *Pharmaceutics*, **15(12)**: 2708 (2024)
 7. Ghosh A., Banik S., **Yamada K.**, Misaka S., Prud'homme R.K., Sato H., Onoue S. Stabilized astaxanthin nanoparticles developed using flash nanoprecipitation to improve oral bioavailability and hepatoprotective effects] *Pharmaceutics*, **15(11)**: 2562 (2024)
 8. Ueno K., Matsushita T., Sugihara M., **Yamada K.**, Sato H., Onoue S. Solid lipid nanoparticles of lutein with improved dissolution behavior and oral absorption. *Pharm. Dev. Technol.*, **28(9)**: 877–883 (2023)
 9. Makino K., Tsukada R., Kambayashi A., **Yamada K.**, Sato H., Onoue S. Self-micellizing solid dispersion of tacrolimus: Physicochemical and pharmacokinetic characterization. *Biopharm. Drug Dispos.*, **44(6)**: 387-395 (2023)
 10. Higuchi K., **Yamada K.**, Kihara T., Makino K., Sasaki K., Shindo T., Shikama H., Sato H., Onoue S. Polylysine-containing hydrogel formulation of fuzapladib, inhibitor of leukocyte function associated antigen-1 (LFA-1) activation, for sustained release. *Molecules*, **28(14)**: 5325 (2023)
 11. **Yamada K.**, Kambayashi A., Sato H., Onoue S. Control and prediction of drug absorption at mucosal tissues. *YAKUGAKU ZASSHI*, **143(4)**: 349–352 (2023)
 12. Onoue S., Higuchi K., Yamane C., Tsukada R., **Yamada K.**, Sasaki K., Yoshida C., Shikama H., Sato H. Species differences in the biopharmaceutical properties of fuzapladib sodium monohydrate in rats, cats, and dogs. *Pharm. Pharmacol. Int. J.*, **10(6)**: 225–228 (2022)
 13. Ogino M., **Yamada K.**, Sato H., Onoue S. Enhanced nutraceutical functions of herbal oily extract employing formulation technology: The present and future. *PharmaNutrition*, **22**: 100318 (2022)
 14. Ghosh A., Banik S., Suzuki Y., Mibe Y., Rikimura S., Komamoto T., Kuromi K., **Yamada K.**, Sato H., Onoue S. Lysophosphatidylcholine-based liposome to improve oral absorption and nephroprotective effects of astaxanthin. *J. Sci. Food Agric.*, **103(6)**: 2981–2988 (2022)
 15. **Yamada K.**, Hayashi Y., Sasaki K., Higuchi K., Shindo T., Shikama H., Sato H., Onoue S. Nanocrystal solid dispersion of fuzapladib free acid with improved oral bioavailability. *Biopharm. Drug Dispos.*, **43(3)**: 89–97 (2022)
 16. Sato H., Yamane C., Higuchi K., Shindo T., Shikama H., **Yamada K.**, Onoue S. Development of

- stabilized fuzapladib solution for injection: forced degradation study and pharmacokinetic evaluation. *Pharm. Dev. Technol.*, **27(5)**: 565–571 (2022)
17. Banik S., **Yamada K.**, Sato H., Onoue S. Development of poly(lipoic acid) nanoparticles with improved oral bioavailability and hepatoprotective effects of quercetin. *Mol. Pharm.*, **19(5)**: 1468–1476 (2022)
 18. Sato H., Matsushita T., Ueno K., Kikuchi H., **Yamada K.**, Onoue S. Oily suspension of micronized crystalline lutein for the improvement of dissolution and oral bioavailability. *ACS Food Sci. Technol*, **2(2)**: 272–279 (2022)
 19. Ohtake H., Tokuyoshi Y., Iyama Y., Nukaga T., Nishida H., Ohtake T., Hirota M., **Yamada K.**, Seto Y., Sato H., Kouzuki H., Onoue S. Reactive oxygen species (ROS) assay-based photosafety screening for complex ingredients: Modification of the ROS assay protocol. *J. Toxicol. Sci.*, **47(11)**: 483–492 (2022)
 20. **Yamada K.**, Ristroph K.D., Kaneko Y., Lu H.D., Sato H., Prud'homme R.K., Onoue S. Clofazimine-loaded mucoadhesive nanoparticles prepared by flash nanoprecipitation for strategic intestinal delivery. *Pharm. Res.*, **38(12)**: 2109–2118 (2021)
 21. Sato H., Kaneko Y., **Yamada K.**, Ristroph K.D., Lu H.D., Seto Y., Chan H.K., Prud'homme R.K., Onoue S. Polymeric nanocarriers with mucus-diffusive and mucus-adhesive properties to control pharmacokinetic behavior of orally dosed cyclosporine A. *J. Pharm. Sci.*, **109(2)**: 1079–1085 (2020)

6. Award

1. Best Presentation Award of Tokai-region of the Pharmaceutical Society of Japan (2017)
2. Travel Award of the 2nd Workshop for Japan-Korea Young Scientists on Pharmaceutics (KJYSP, 2018)
3. Travel Award of the 3rd Workshop for Japan-Korea Young Scientists on Pharmaceutics (JKPW, 2019)
4. JSPS Research Fellow (DC1) (2020)
5. Nagai Foundation Scholarship of the Academy of Pharmaceutical Science and Technology, Japan (APSTJ, 2020)
6. The Award of Japan Autophagy Consortium (2022)
7. Best Presentation Award of APSTJ (2023)
8. Best Presentation Award of Asian Federation of Pharmaceutical Sciences Conference (2023)