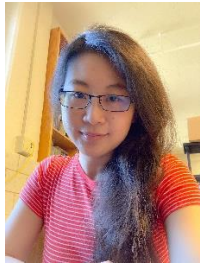


Yung-Yi Cheng	Ph.D.	Assistant Professor	
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Research Interests			
<p>Research of interest includes structural modification of natural products as well as ionizable lipids for nucleic acids delivery, drug metabolism, and herb-drug interactions. Currently, my research is focused on the synthesis and design of drug-loaded lipids for liver/lung diseases.</p>			
Key Expertise			
<ul style="list-style-type: none"> ● Design and synthesis of novel ionizable lipids for nucleic acids lipid nanoparticle delivery ● Structural modifications of natural products as drug-loaded lipids for mRNA delivery/bioactive improvements ● Pharmacokinetics and pharmacodynamics for herb-drug interaction/food safety ● Plasmid DNA and mRNA delivery platform 			
Five Key Publications (up to 5)			
<ol style="list-style-type: none"> 1. Cheng, Y.-Y.; Tuzo, E. T.; Dalley, J. W.; Tsai, T.-H., The effects of Hedyotis diffusa extract on the pharmacokinetics of tamoxifen, 4-hydroxytamoxifen, and N-desmethyltamoxifen. <i>Biomedicine & Pharmacotherapy</i>, 2022, 145, 112466. doi: 10.1016/j.biopha.2021.112466. 2. Cheng, Y.-Y.; Zheng, T.; Chang, M. W.; Dalley, J.W.; Chen, Y.-J.; Tsai, T.-H. and Hsieh, C.-H. Impact of Irradiation on the Pharmacokinetics and Biotransformation of Tamoxifen. <i>Front. Oncol.</i> 2022, 12, 833108. doi: 10.3389/fonc.2022.833108. 3. Cheng, Y.-Y.; Hsieh, C. H.; Tsai, T. H., Concurrent administration of anticancer chemotherapy drug and herbal medicine on the perspective of pharmacokinetics. <i>J Food Drug Anal</i>, 2018, 26(2S), S88-S95. 4. Cheng, Y.-Y.; Tsai, T. H., Pharmacokinetics and Biodistribution of the Illegal Food Colorant Rhodamine B in Rats. <i>J Agric Food Chem</i>, 2017, 65 (5), 1078-1085. 5. Liu, Q.[#]; Cheng, Y.-Y.[#]; Li, W.; Huang, L.; Asada, Y.; Hsieh, M. T.; Morris-Natschke, S. L.; Chen, C. H.; Koike, K.; Lee, K. H., Synthesis and Structure-Activity Relationship Correlations of Gnidimacrin Derivatives as Potent HIV-1 Inhibitors and HIV Latency Reversing Agents. <i>J Med Chem</i>, 2019, 62 (15), 6958-6971. ([#]equal contribution) 			
Fields wish to collaborate with (up to 3)			
<ul style="list-style-type: none"> ● Molecular Biology ● Bioinformatics ● Analytical Chemistry 			