

## Curriculum vitae

Name-Surname Dr. Boonta Chutvirasakul

Academic position Asst. Prof.

Office address Department of Pharmaceutical Chemistry  
Faculty of Pharmacy, Srinakharinwirot University

Phone 037-395-094 ext. 2-1625

Email [boontac@g.swu.ac.th](mailto:boontac@g.swu.ac.th)

### Education

Degree	Major	University	Year
B.Sc.	Pharmacy	Chulalongkorn University	2004
MS	Chemistry	Virginia Tech	2008
Ph.D.	Pharmaceutical Chemistry and Phytochemistry	Mahidol University	2020

### Research areas

Method development and validation, liposome-based sensors, polydiacetylene, paper-based analytical devices, drug analysis, bioactive compounds from herbal medicines: nucleosides in *Cordyceps*, polyphenols in pomegranate, etc.

## 1. Publications

### 1.1 International Publications

1. Sweede M, Ankem G, **Chutvirasakul B**, Azurmendi HF, Chbeir S, Watkins J, Helm RF, Finkielstein CV, Capelluto DG. Structural and Membrane-Binding Properties of the Prickle PET Domain. *Biochemistry* (2008); 47(51): 13524–13536.
2. Ankem G, Mitra S, Sun F, Moreno AC, **Chutvirasakul B**, Azurmendi HF, Li L, Capelluto DG. The C2 Domain of Tollip, a Toll-like Receptor Signaling Regulator, Exhibits Broad Preference for Phosphoinositides. *Biochem J* (2011); 435: 597–608.
3. **Chutvirasakul B**, Jongmeesuk W, Tirasomboonsiri P, Sunsandee N, Tadtong S. Stability indicating method to determine bioactive nucleosides in crude drugs, extracts, and products from *Cordyceps sinensis* and *Cordyceps militaris*. *Thai Journal of Pharmaceutical Sciences* (2017); 42(2): 52-60.
4. Sunsandee N, Kunthakudee N, **Chutvirasakul B**, Phatanasri S, Ramakul P. Enantioseparation of (S)-amlodipine from Pharmaceutical Wastewater by Hollow-Fiber Supported Liquid Membrane: Central Composite Design and Optimization. *Desalin Water Treat* (2017); 72: 207-215.
5. Manmana Y, **Chutvirasakul B**, Suntornsuk L, Nuchtavorn N. Cost effective paper-based colorimetric devices for a simple assay of dopamine in pharmaceutical formulations using 3,3',5,5'-tetramethylbenzidine – silver nitrate as a chromogenic reagent. *Pharm Sci Asia* (2019); 46(4), 270-277.

6. Kunthakudee N, Sunsandee N, **Chutvirasakul B**, Ramakul P. Extraction of lycopene from tomato with environmentally benign solvents: Box-Behnken design and optimization. *Chemical Engineering Communications* (2020); 207(4): 574-583.
7. **Chutvirasakul B**, Nuchtavorn N, Suntornsuk L, Zeng Y. Exosome aggregation mediated stop-flow paper-based portable device for rapid exosome quantification. *Electrophoresis* (2020); 41 (5-6): 311-318.
8. **Chutvirasakul B**, Nuchtavorn N, Macka M, Suntornsuk L. Distance-based paper device using polydiacetylene liposome as a chromogenic substance for rapid and in-field analysis of quaternary ammonium compounds. *Analytical and Bioanalytical Chemistry* (2020); 412: 3221-3230.
9. **Chutvirasakul B**, Joseph JF, Parr MK, Suntornsuk L. Development and applications of liquid chromatography-mass spectrometry for simultaneous analysis of anti-malarial drugs in pharmaceutical formulations. *Journal of Pharmaceutical and Biomedical Analysis* (2021); 195: 113855.
10. Kitnithet S, Kongtaworn K, **Chutvirasakul B**, Ramakul P. Removal of paraquat from aqueous media via HFSLM and mathematical modeling. *Chemical Engineering Communications* (2022); 209(2): 281-290.

## 1.2 National Publications

1. Wiranidchapong C, Chutvirasakul B. Drug-Polymer Miscibility of Ibuprofen with Eudragit® RL and Ethylcellulose by Differential Scanning Calorimeter. *Thammasat Int J Sci Tech* (2017); 22(2): 68-81.1.