

## *Curriculum Vitae*

**SOMCHAI CHUTIPONGTANATE, Ph.D. (Dean's List), M.D. (Hons.)**  
**Board Certificate in Pediatrics**

*Faculty Member*  
*Department of Pediatrics*  
*Faculty of Medicine Ramathibodi Hospital, Mahidol University*  
*Bangkok, THAILAND*  
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### **PERSONAL STATEMENT**

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Dr.Somchai Chutipongtanate is interested in the molecular basis responsible for a variety of disease phenotype and treatment consequences. His research range from basic laboratory experiments, clinically relevant analytical studies and data science using R-programming. He harmonize his experience in various fields to deciphering the precise role of protein expression profiles and posttranslational modifications in disease states, aiming to identify actionable therapeutic molecules that changes patient outcomes. He also works in collaboration with scientists, clinicians and bioinformaticians in the areas of regulatory T cell immunotherapy, proteomic biomarkers in various models and computational drug discovery using connectivity map.

### **EDUCATION**

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| <b>2013 – 2016</b> | <b>Ramathibodi Hospital, Mahidol University, Bangkok, THAILAND</b><br>Board Certificate in Pediatrics<br><i>Outstanding Resident Award in Self-Actualization for Teachers</i><br><i>First prize of Pediatric Resident Research Contest</i> |
| <b>2012 – 2013</b> | <b>Chawpraya-Yommaraj Hospital, Suphanburi, THAILAND</b><br>Internship<br><i>Intern of The Year</i>  |
| <b>2006 – 2009</b> | <b>Siriraj Hospital, Mahidol University, Bangkok, THAILAND</b><br>Doctor of Medicine<br><i>Second Class Honor</i>  |
| <b>2000 – 2005</b> | <b>Mahidol University, Bangkok, THAILAND</b><br>Doctor of Philosophy (Immunology)<br><i>Dean's List (GPA 4.00), Distinguish Thesis Award, Graduate Thesis Publication Awards, Ph.D./M.D. Scholarship</i>                                   |
| <b>1996 – 1999</b> | <b>Mahidol University, Bangkok, THAILAND</b><br>Bachelor of Science (Medical Science)  |

### **PROFESSIONAL TRAINING**

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|-------------|---|
| <b>2017</b> | <b>MALDI Imaging Workshop</b><br>Organized by: American Society for Mass Spectrometry<br>Location: Indiana Convention Center, Indianapolis, IN, |
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- USA  
On: June 4-5, 2017
- 2016 NMR Metabonomics Workshop**  
Organized by: BRUKER Corp. and Department of Chemistry,  
Faculty of Science, Mahidol University  
Location: NMR facility, Department of Chemistry, Faculty of  
Science, Mahidol University, THAILAND  
On: June 25-29, 2016
- 2013 Pediatric Advanced Life Support Course 2013**  
Organized by: Department of Pediatrics, Faculty of Medicine  
Ramathibodi Hospital, Mahidol University  
Location: Ramathibodi Hospital, Bangkok, THAILAND  
On: May 30, 2013
- 2009 Cutting-Edge Methods and Techniques in Protein Research: A  
Workshop for Scientists from Developing Countries**  
Organized by: The Academy of Sciences for the Developing World  
Location: Institute of Biophysics, Chinese Academy of Science,  
Beijing, CHINA  
On: July 14-17, 2009

## APPOINTMENTS

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### *Academic*

- 2012 – Present Faculty Member**  
Department of Pediatrics, Faculty of Medicine Ramathibodi  
Hospital, Mahidol University, Bangkok, THAILAND
- 2009 – 2012 Faculty Member**  
Office for Research and Development, Faculty of Medicine Siriraj  
Hospital, Mahidol University, Bangkok, THAILAND

### *Research*

- 2017 – 2018 Visiting Scientist**  
UC Proteomics Laboratory, Department of Cancer Biology,  
University of Cincinnati, Cincinnati, Ohio, USA

### *Editorial*

- 2018 – Present Associate Editorial Board Member, Current Proteomics**

## ACADEMIC SOCIETIES

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- 2014 – Present Protein Society of Thailand**  
Network member (life-time)
- 2009 – Present Medical Association of Thailand**  
Member (life-time)

## GRANTS FUNDED

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- 2018 – 2021 Research Grant (NRMS id: 11759), PI**  
Title: Ubiquitin-related proteome in Thalassemia  
From: Government Annual Budget, Thailand  
Duration: 3-year

- 2016 – 2017**                    **Research Grant (IHPF59102559), PI**  
 Title: Growth promoting activity of human breast milk and infant formulas on fetal intestinal cells  
 From: International Health Policy Program Foundation (IHPF), Ministry of Public Health, Thailand  
 Duration: 12-month
- 2010 – 2013**                    **TRF Senior Research Scholar (RTA5380005), Co-I**  
 From: Thailand Research Fund (TRF), Thailand  
 Duration: 3-year
- 2010 – 2012**                    **TRF-CHE Research Grant for New Scholar (MRG5380018), PI**  
 From: Office of the Higher Education Commission and Thailand Research Fund (TRF), Thailand  
 Duration: 2-year

## HONORS & AWARDS

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- 2016**                                **Best Young Scientist Poster Presentation Award**  
 From: Protein Society of Thailand (PST)  
 In: 11<sup>th</sup> International Symposium of the Protein Society of Thailand, on August 3-5, 2016, at Chulabhorn Research Institute Conference Center, Bangkok, Thailand  
 Title: Biomarker Discovery of Delayed Graft Function from Perfusate Proteome
- 2016**                                **PST 2016 Travel Award**  
 From: Protein Society of Thailand (PST)  
 Description: A travel award to join any International Conference around the world for the best young scientist in protein and proteome science in 2016, as nominated by Protein Society of Thailand.
- 2016**                                **First Prize of Pediatric Resident Research Contest**  
 From: Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand
- 2015**                                **Best Poster Award**  
 From: Protein Society of Thailand (PST)  
 In: 10<sup>th</sup> International Symposium of the Protein Society of Thailand, on July 15-17, 2015, at Chulabhorn Research Institute Conference Center, Bangkok, Thailand  
 Title: Clinical Proteomics of Pediatric Refractory Epilepsy
- 2015**                                **Fhun-Klai Award (Suppannachart's Grant)**  
 From: Department Chair, Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, THAILAND  
 Description: Cincinnati Children Hospital Medical Center, Ohio, United State  
 Duration: 1-month
- 2014**                                **Outstanding Resident Award in Self-Actualization for Teachers**  
 From: Pediatric Residency Program, Department of Pediatrics, Faculty of Medicine Ramathibodi Hospital, Mahidol University, Thailand
- 2012**                                **Outstanding Intern Award (Intern of The Year)**  
 From: Medical Staff Organization, Chawpraya-Yommaraj Hospital, Suphanburi, Thailand
- 2009**                                **TWAS Workshop Training Award and Travel Award**

- From: The Academy of Sciences for the Developing World (TWAS) and Institute of Biophysics, Chinese Academy of Sciences, China and Protein Society of Thailand (PST), Thailand
- 2009**      **Second Class Honor – Doctor of Medicine**  
From: Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand
- 2008**      **Awards for Graduate with Distinction (Dean’s list)**  
From: Faculty of Graduate Studies, Mahidol University, Bangkok, Thailand
- 2008**      **Distinguished Thesis Awards**  
From: Faculty of Graduate Studies, Mahidol University, Bangkok, Thailand  
Dissertation: Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor
- 2006**      **Graduate Thesis Publication Awards for Graduate Student**  
From: Faculty of Graduate Studies, Mahidol University, Bangkok, Thailand  
Title: Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor.  
Publication: J Clin Invest 2005;115(12):3613-22.
- 2005**      **Best Abstract Award**  
From: International Society of Nephrology  
In: 3<sup>rd</sup> World Congress of Nephrology, on June 26-30, 2005, at Suntec Singapore International Convention Exhibition Centre, Singapore  
Title: Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor
- 1999 – 2008**      **Ph.D./M.D. Scholarship**  
From: Medical Scholars Program, Mahidol University, Bangkok, Thailand

## **INVITED LECTURES/ORAL CONTRIBUTION**

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- Jul 22-23, 2019**      **14<sup>th</sup> International Symposium of the Protein Society of Thailand (PST2019) “Protein Technology for a Better Life”**  
Topic: “SVVATH: A tool for Systematic proteomic data eValuation and Visualization Augment biological interpretation and Thrust Hypothesis by Data-driven mechanism”  
Organized By: Protein Society of Thailand  
At: The Maruay Garden Hotel, Bangkok, THAILAND
- Sep 18-21, 2017**      **3<sup>rd</sup> International Caparica Conference on Urine Omics & 2<sup>nd</sup> International Caparica Conference in Translational Nephrology (Urinomics/Nephromics 2017)**  
Topic: “Syringe-Push Membrane Absorption (SPMA): Methodology and Applications”  
Organized by: PROTEOMASS Scientific Society, BIOSCOPE group and UCIBIO-REQUIMTE, FCT- University NOVA of Lisbon  
At: The Conference Venue, Hotel Aldeia Dos Capuchos, Lisbon, PORTUGAL

- Jun 15-18, 2011**      **Joint Conference in Medical Sciences 2011: Chula-Rama-Siriraj (JCMS2011)**  
 Topic: “Proteomics of Kidney Stone Disease”  
 Organized by: Faculty of Medicine, Chulalongkorn University, THAILAND, Faculty of Medicine Siriraj Hospital and Faculty of Medicine Ramathibodi Hospital, Mahidol University  
 At: Impact Exhibition Hall, Muangthongthani, Bangkok, THAILAND
- Dec 22-23, 2010**      **Mahidol-Kyoto Universities International Symposium: Integration of Bioscience for Innovative Medicine**  
 Topic: “RBC membrane fragments, but not intact RBC, promote growth and aggregation of calcium oxalate monohydrate crystals”  
 Organized by: Mahidol and Kyoto Universities  
 At: Prasong Tuchinda Conference Room, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, THAILAND
- Aug 26-28, 2009**      **4<sup>th</sup> Annual Symposium of the Protein Society of Thailand “Protein Research: From Basic Studies to Applications in Health Sciences”**  
 Topic: “Roles of Trefoil Factor 1 in calcium oxalate monohydrate crystal growth, aggregation and transformation”  
 Organized By: Protein Society of Thailand  
 At: Chulabhorn Research Institute Conference Center, THAILAND

## POSTER PRESENTATIONS

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- Sep 18-22, 2016**      **HUPO 15<sup>th</sup> Annual World Congress**  
 Title: Thermostable Plasma Proteome and its Potential Applications in Biomarker Discovery  
 Organized by: Human Proteome Organization  
 At: Taipei World Trade Center Congress, Taiwan
- July 15-17, 2015**      **10<sup>th</sup> International Symposium of the Protein Society of Thailand**  
 Title: Clinical Proteomics of Pediatric Refractory Epilepsy  
 Organized by: Protein Society of Thailand, and Center for Excellence in Protein Structure and Function, Mahidol University  
 At: Chulabhorn Research Institute Conference Center, Bangkok, THAILAND
- Aug 6-8, 2014**      **7<sup>th</sup> AOHUPO Congress and 9<sup>th</sup> International Symposium of the Protein Society of Thailand**  
 Title: Syringe-push membrane absorption as a novel rapid method of urine protein preparation for clinical proteomics.  
 Organized by: Protein Society of Thailand  
 At: Miracle Grand Convention Hotel, Bangkok, Thailand
- Oct 10-12, 2012**      **TRF Academic Meeting 2012**  
 Title: Effects of cellular membranes in calcium oxalate crystal growth and/or aggregation.  
 Organized by: Thailand Research Fund  
 At: Holiday Inn Resort, Phetburi, THAILAND
- Aug 30-Sep 2, 2011**      **6<sup>th</sup> International Symposium of The Protein Society of Thailand**  
 Title: High calcium enhances calcium oxalate crystal binding capacity of renal tubular cells via increased surface annexin A1 but impairs their proliferation and healing.  
 Organized by: Protein Society of Thailand

- At: Chulabhorn Research Institute Conference Center, Bangkok, THAILAND
- Sep 18-24, 2010**     **HUPO 9<sup>th</sup> Annual World Congress**  
 Title: Proteomic analysis of distal renal tubular cell responses to high calcium environment  
 Organized by: Human Proteome Organization  
 At: Sydney Convention and Exhibition Center, Sydney, AUSTRALIA
- June 26-30, 2005**     **3<sup>rd</sup> World Congress of Nephrology**  
 Title: Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor  
 Organized by: International Society of Nephrology  
 At: Suntec Singapore International Convention Exhibition Centre, SINGAPORE
- Aug 28-Sep 1, 2005**     **HUPO 4<sup>th</sup> Annual World Congress**  
 Title: Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor  
 Organized by: Human Proteome Organization  
 At: International Congress Center, Munich, GERMANY
- Sep 22-23, 2005**     **2<sup>nd</sup> Protein Research Network Symposium on “Proteins: Structure, Function and Proteomics”**  
 Title: Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor  
 Organized by: Protein Society of Thailand  
 At: Chulabhorn Research Institute Conference Center, Bangkok, THAILAND

## JOURNAL REVIEWER

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Kidney International (*Elsevier*), Biomedicine & Pharmacotherapy (*Elsevier*), Journal of Herbal Medicine (*Elsevier*), Asian Journal of Urology (*Elsevier*), *BMC Medical Case Reports* (*Springer Nature*), Proteomics Clinical Applications (*Wiley*), *BioMed Research International* (*Hindawi*)

## PUBLICATIONS (\*corresponding author)

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1. Vanichapol T, Pongsakul N, Srisala S, Apiwattanakul N, **Chutipongtanate S,\*** Hongeng S. Suppressive Characteristics of Umbilical Cord Blood-Derived Regulatory T Cells after *Ex Vivo* Expansion on Autologous and Allogeneic T Effectors and Various Lymphoblastic Cells. *J Immunother* 2019;42(4):110-118. *Impact factor 2017 = 3.826*
2. Chiangjong W, Changtong C, Panachan J, Weeraphan C, Srisomsap C, Hongeng S, Svasti J, **Chutipongtanate S.\*** Optimization and Standardization of Thermal Treatment as a Plasma Prefractionation Method for Proteomic Analysis. *BioMed Res Int.* 2019;2019:8646039. *Impact factor 2017 = 2.583*
3. Vanichapol T, Chiangjong W, Panachan J, Anurathapan U, **Chutipongtanate S,\*** Hongeng S.

Secretory high-mobility group box 1 protein affects regulatory T cell differentiation in neuroblastoma microenvironment *in vitro*.

J Oncol. 2018;7946021.

*Impact factor 2017 = 4.528*

4. **Chutipongtanate S,\* Greis KD**

Multiplex biomarker screening assay for urinary extracellular vesicles study: A targeted label-free proteomic approach.

Sci Rep. 2018;8(1):15039.

*Impact factor 2017 = 4.122*

5. Pongsakul N, Kanaprach P, Chiangjong W, Supapannachart S, Nuntnarumit P, **Chutipongtanate S\***

Fetal intestinal cell growth as a measure of the comparative biofunctionality of human milk and infant formulas: An *in vitro* study.

Breastfeed Med. 2018;13(7):510-515.

*Impact factor 2017 = 1.951*

6. Chatchen S, Pongsakul N, Srisomsap C, Chiangjong W, Hongeng S, Svasti J, **Chutipongtanate S\***

Unravelling pathophysiology of crystalline nephropathy in ceftriaxone associated acute kidney injury: A cellular proteomic approach.

Nephron. 2018;139(1):70-82.

*Impact factor 2017 = 2.203*

7. Kanaprach P, Pongsakul N, Apiwattanakul N, Muanprasat C, Supapannachart S, Nuntnarumit P, **Chutipongtanate S\***

Evaluation of fetal intestinal cell growth and antimicrobial biofunctionalities of donor human milk after preparative processes.

Breastfeed Med. 2018;13(3):215-220.

*Impact factor 2017 = 1.951*

8. Vanichapol T, **Chutipongtanate S**, Anurathapan U, Hongeng S

Immune Escape Mechanisms and Future Prospects for Immunotherapy in Neuroblastoma.

Biomed Res Int. 2018;2018:1812535.

*Impact factor 2017 = 2.583*

9. **Chutipongtanate S,\* Chatchen S, Svasti J**

Plasma prefractionation methods for proteomic analysis and perspectives in clinical applications.

Proteomics Clin Appl. 2017;11(7-8).

*Impact factor 2017 = 3.567*

\*\* Invited review

\*\*\* Selected for journal cover illustration

10. **Chutipongtanate S\***

Breaking the ice: Urine proteomics of medullary sponge kidney disease.

Kidney Int. 2017;91(2):281-283.

*Impact factor 2017 = 8.426*

\*\* Invited commentary on Kidney Int. 2017;91(2):459-468.

11. Verathamjamras C, Weeraphan C, Chokchaichamnankit D, Watcharatanyatip K, Subhasitanont P, Diskul-Na-Ayudthaya P, Mingkwan K, Luevisadpaibul V, **Chutipongtanate S**, Champattanachai V, Svasti J, Srisomsap C

Secretomic profiling of cells from hollow fiber bioreactor reveals PSMA3 as a potential cholangiocarcinoma biomarker.

Int J Oncol. 2017;51(1):269-280.

*Impact factor 2017 = 3.333*

12. Zhang W, Oehrle M, Prada CE, Schwartz IVD, **Chutipongtanate S**, Wattanasirichaigoon D, Inskeep V, Dai M, Pan D, Sun Y, Setchell KDR

A convenient approach to facilitate monitoring Gaucher disease progression and therapeutic response.

- Analyst*. 2017;142(18):3380-3387.  
*Impact factor 2017 = 3.864*
13. Changtong C, Peerapen P, Khamchun S, Fong-Ngern K, **Chutipongtanate S**, Thongboonkerd V  
*In vitro* evidence of the promoting effect of testosterone in kidney stone disease: A proteomics approach and functional validation.  
*J Proteomics*. 2016;31;144:11-22.  
*Impact factor 2017 = 3.722*
  14. **Chutipongtanate S**,\* Changtong C, Weeraphan C, Hongeng S, Srisomsap C, Svasti J  
Syringe-push membrane absorption as a novel rapid method of urine protein preparation for clinical proteomics.  
*Clin Proteomics*. 2015;6;12(1):15.  
*Impact factor 2017 = 3.516*
  15. Chutipongtanate A, Khongrod R, Jiarpinitnun J, Lekprasert V, Virankabutra T, Woratanarat P, **Chutipongtanate S**  
Litholyme cost comparison with soda lime.  
*Anaesthesia*. 2015;70(12):1465-6.  
*Impact factor 2017 = 5.431*
  16. Changsrisk S, **Chutipongtanate S**  
Risk-associated mortality in patients with peritonitis due to Sandorica Koetjape seed ingestion: a retrospective study.  
*J Med Assoc Thai*. 2013;96(7):807-13.  
*SJR 2017 = 0.239*
  17. **Chutipongtanate S**, Sutthimethakorn S, Chiangjong W, Thongboonkerd V  
Bacteria can promote calcium oxalate crystal growth and aggregation.  
*J Biol Inorg Chem*. 2013;18(3):299-308.  
*Impact factor 2017 = 2.952*
  18. **Chutipongtanate S**, Thongboonkerd V  
Phosphate inhibits calcium oxalate crystal growth and crystallization through reducing free calcium ions: A morphological analysis and calcium consumption assay.  
*Clin Chem Lab Med*. 2012;50(9):1697-8.  
*Impact factor 2017 = 3.556*
  19. **Chutipongtanate S**, Watcharatanyatip K, Homvises T, Jaturongkakul K, Thongboonkerd V  
Systematic comparisons of various spectrophotometric and colorimetric methods to measure concentrations of protein, peptide and amino acid: detectable limits, linear dynamic ranges, interferences, practicality and unit costs.  
*Talanta*. 2012;98:123-9.  
*Impact factor 2017 = 4.244*
  20. **Chutipongtanate S**, Chaiyarit S, Thongboonkerd V  
Citrate, not phosphate, can dissolve calcium oxalate monohydrate crystals and detach these crystals from renal tubular cells.  
*Eur J Pharmacol*. 2012;689(1-3):219-25.  
*Impact factor 2017 = 3.040*
  21. **Chutipongtanate S**, Fong-ngern K, Peerapen P, Thongboonkerd V  
High calcium enhances calcium oxalate crystal binding capacity of renal tubular cells via increased surface annexin A1 but impairs their proliferation and healing.  
*J Proteome Res*. 2012;11(7):3650-63.  
*Impact factor 2017 = 3.950*
  22. **Chutipongtanate S**, Thongboonkerd V  
Ceftriaxone crystallization and its potential role in kidney stone formation.  
*Biochem Biophys Res Commun*. 2011;406(3):396-402.  
*Impact factor 2017 = 2.559*



23. **Chutipongtanate S**, Thongboonkerd V  
Renal tubular cell membranes inhibit growth but promote aggregation of calcium oxalate monohydrate crystals.  
Chem Biol Interact. 2010;188(3):421-6.  
*Impact factor 2017 = 3.296*
24. **Chutipongtanate S**, Thongboonkerd V  
RBC membrane fragments, but not intact RBC, promote growth and aggregation of calcium oxalate monohydrate crystals.  
J Urol. 2010; 184(2):743-9.  
*Impact factor 2017 = 5.387*
25. **Chutipongtanate S**, Thongboonkerd V  
Establishment of a novel colorimetric assay for high-throughput analysis of calcium oxalate crystal growth modulation.  
Analyst. 2010; 135(6):1309-14.  
*Impact factor 2017 = 3.864*  
*\*\* Selected for journal cover illustration*
26. **Chutipongtanate S**, Thongboonkerd V  
Systematic comparisons of artificial urine formulas for *in vitro* cellular study.  
Anal Biochem. 2010; 402(1):110-2.  
*Impact factor 2017 = 2.275*
27. Thongboonkerd V, **Chutipongtanate S**, Semangoen T, Malasit P  
Urinary trefoil factor 1 is a novel potent inhibitor of calcium oxalate crystal growth and aggregation.  
J Urol. 2008;179(4):1615-9.  
*Impact factor 2017 = 5.387*
28. Thongboonkerd V, Semangoen T, **Chutipongtanate S**  
Enrichment of the basic/cationic urinary proteome using ion exchange chromatography and batch adsorption.  
J Proteome Res. 2007;6(3):1209-14.  
*Impact factor 2017 = 3.950*
29. Thongboonkerd V, **Chutipongtanate S**, Kanlaya R, Songtawee N, Sinchaikul S, Parichatikanond P, Chen ST, Malasit P  
Proteomic identification of alterations in metabolic enzymes and signaling proteins in hypokalemic nephropathy.  
Proteomics. 2006;6(7):2273-85.  
*Impact factor 2017 = 3.532*
30. Thongboonkerd V, Semangoen T, **Chutipongtanate S**  
Factors determining types and morphologies of calcium oxalate crystals: molar concentrations, buffering, pH, stirring and temperature.  
Clin Chim Acta. 2006;367(1-2):120-31.  
*Impact factor 2017 = 2.926*
31. Thongboonkerd V, Songtawee N, Kanlaya R, **Chutipongtanate S**  
Quantitative analysis and evaluation of the solubility of hydrophobic proteins recovered from brain, heart and urine using UV-visible spectrophotometry.  
Anal Bioanal Chem. 2006; 384(4):964-71.  
*Impact factor 2017 = 3.307*
32. Thongboonkerd V, **Chutipongtanate S**, Kanlaya R  
Systematic evaluation of sample preparation methods for gel-based human urinary proteomics: quantity, quality, and variability.  
J Proteome Res. 2006;5(1):183-91.  
*Impact factor 2017 = 3.950*
33. **Chutipongtanate S**, Nakagawa Y, Sritippayawan S, Pittayamateekul J, Parichatikanond P, Westley BR, May FE, Malasit P, Thongboonkerd V

Identification of human urinary trefoil factor 1 as a novel calcium oxalate crystal growth inhibitor. *J Clin Invest*. 2005;115(12):3613-22. ()

*Impact factor 2017 = 13.251*

*\*\* PhD thesis*

34. Auewarakul P, Wacharapornin P, Srichatrapimuk S, **Chutipongtanate S**, Puthavathana P. Uncoating of HIV-1 requires cellular activation. *Virology*. 2005;337(1):93-101. *Impact factor 2017 = 3.374*
35. Nakagawa Y, Carvalho M, Malasit P, Nimmannit S, Sritippaywan S, Vasuvattakul S, **Chutipongtanate S**, Chaowagul V, Nilwarangkur S. Kidney stone inhibitors in patients with renal stones and endemic renal tubular acidosis in northeast Thailand. *Urolithiasis*. 2004;32(2):112-6. *Impact factor 2017 = 2.038*  
*\*\* Formerly "Urological Research"*

## **WORKS IN PROGRESS** (\*corresponding author; #co-first author)

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1. Muench DE, Ferchen K, Pham G, **Chutipongtanate S**, Dwivedi P, Hay S, Chetal K, Trump-Durbin LR, Mookerjee-Basu J, Zhang K, Lutzko C, Myers KC, Nazor KL, Greis KD, Kappes DJ, Way SS, Salomonis N, Grimes HL. Mouse models of neutropenia reveal progenitor-stage-specific defects. Manuscript in revision.  
Manuscript in revision
2. Srisala S, Pongsakul N, Sahakijpicharn T, Hongeng S, **Chutipongtanate S**,\* Apiwattanakul N. Capillary Blood as An Alternative Specimen for Enumeration of Percent CD3+, CD4+, and CD8+ lymphocyte count.  
Manuscript in submission
3. Chutipongtanate A, Prukviwat S, Pongsakul N, Srisala S, Kamanee N, Arpornsujaritkun N, Gesprasert G, Apiwattanakul N, Hongeng S, Ittichaikulthol W, Sumethkul V, **Chutipongtanate S**.\* Effects of sevoflurane and desflurane anesthesia on regulatory T cells in patients undergoing living donor kidney transplantation: A randomized intervention trial.  
Manuscript in submission
4. Dwivedi P, **Chutipongtanate S**,# Muench D, Azam M, Wagner M, Grimes HL, Greis KD. Proteomic analysis of ibrutinib mediated changes downstream of mutated colony stimulating factor receptors.  
Manuscript in submission
5. Barreyro L, Sampson AM, Hueneman KM, Bolanos LC, Pujato MA, **Chutipongtanate S**, Wyder M, Haffey WD, Choi K, Neelamraju Y, Smith MA, Niederkorn M, Ramesh V, Muto T, O'Brien E, Meydan C, Garret-Bakelman F, Bartholdy B, Will B, Weirauch M, Gul Z, Medlin S, Perentesis JP, Greis KD, Seibel WL and Starczynowski DT. Therapeutic targeting of the ubiquitin conjugating enzyme UBE2N in myeloid malignancies.  
Manuscript in submission
6. Shamsaei B, Chojnacki S, Pilarczyk M, Najafabadi M, Chen C, Ross K, Matlock A, Muhlich J, **Chutipongtanate S**, Vidovic D, Sharma V, Vasiliauskas J, Jaffe J, MacCoss M, Wu C, Pillai A, Ma'ayan A, Schurer S, Medvedovic M, Meller J. piNET: a versatile web platform for downstream analysis and visualization of proteomics data.

bioRxiv 607432; doi: <https://doi.org/10.1101/607432>.

Manuscript in submission

7. **Chutipongtanate S,\*** Chiangjong W, Sathirapongsasuti N, Dwivedi P, Haffrey W, Wyder M, Kitiyakara C, Greis KD.

Dried urine membrane proteomics: A proof-of-concept feasibility study.

Manuscript under preparation

8. Thorman A, Reigle J, **Chutipongtanate S**, Shamsaei B, Pilarczyk M, Fazel-Najafabadi M, Adamczak R, Medvedovic M, Meller J.

Sig2Lead: Integration of Omics signatures and chemical similarity for improved structure activity relationship analysis.

Manuscript under preparation

9. **Chutipongtanate S,\*** Shamshei B, Meller J, Greis KD.

SVVATH-D: A tool for Systematic proteomic data evaluation and Visualization Augment biological interpretation and Thrust Hypothesis by Data-driven mechanism.

Manuscript under preparation