

KAVEE LIMBUTARA, MD

Nephrologist

- A physician-scientist with board certified in Internal Medicine and Nephrology.
- Experienced in Omics techniques including Proteomics and Transcriptomics (both experimental and computational works).
- Strong background in basic science, clinical science, and information technology.
- My personal goal is to integrate biotechnology, information technology, and clinical knowledge to deliver Precision Medicine.

EDUCATION

- 2010 • **Chulalongkorn University**
Doctor of Medicine (1st Class Honours, GPAX 3.87)
📍 Bangkok, Thailand
- 2014 • **Hatyai Hospital**
Diploma of The Thai Board of Internal Medicine 📍 Songkhla, Thailand

Research: Prevalence of hypokalemia in adult with dengue virus infection.
- 2016 • **King Chulalongkorn Memorial Hospital**
Diploma of The Thai Board of Nephrology 📍 Bangkok, Thailand

Research: Quantitative Phosphoproteomic Analysis of Rat Renal Cortical Tubules in Response to Phospholipase A2 from Russell's Viper Venom.

PROFESSIONAL EXPERIENCE

- 2010-2011 • **General Practitioner**
Hatyai Hospital 📍 Songkhla, Thailand
- Nov 2010 | Jan 2011 • **General Practitioner**
Trakanphuetpol Hospital 📍 Ubon Ratchathani, Thailand
- 2011 | 2014 • **Internal Medicine Resident**
Hatyai Hospital 📍 Songkhla, Thailand
- 2014 | 2016 • **Nephrology Fellow**
King Chulalongkorn Memorial Hospital 📍 Bangkok, Thailand
- 2016 | 2017 • **Nephrologist**
King Chulalongkorn Memorial Hospital 📍 Bangkok, Thailand



CONTACT INFO

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SKILLS

Clinical Nephrology and Internal Medicine

Mass spectrometry-based proteomics and phosphoproteomics.

Proteomics data processing and analysis.

RNA-seq data analysis.

Intermediate skill in R and Python programming.

Last updated on 2023-09-15.





SELECTED PUBLICATIONS

- 2023 • **Signaling mechanisms in renal compensatory hypertrophy revealed by multi-omics.**
Nat Commun. 2023 Jun 16; 14(1):3481.
Kikuchi H, Chou CL, Yang CR, Chen L, Jung HJ, Park E, Limbutara K, Carter B, Yang ZH, Kun JF, Remaley AT, Knepper MA
- 2021 • **Candida Administration in Bilateral Nephrectomy Mice Elevates Serum (1→3)- β -D-glucan That Enhances Systemic Inflammation Through Energy Augmentation in Macrophages.**
Int J Mol Sci. 2021 May 10; 22(9):.
Issara-Amphorn J, Dang CP, Saisorn W, Limbutara K, Leelahavanichkul A
- 2020 • **Protein kinase A catalytic- α and catalytic- β proteins have nonredundant regulatory functions.**
Am J Physiol Renal Physiol. 2020 Nov 1; 319(5):F848-F862.
Raghuram V, Salhadar K, Limbutara K, Park E, Yang CR, Knepper MA
- 2020 • **Quantitative Proteomics of All 14 Renal Tubule Segments in Rat.**
J Am Soc Nephrol. 2020 Jun; 31(6):1255-1266.
Limbutara K, Chou CL, Knepper MA
- 2021 • **Phosphoproteomic Identification of Vasopressin/cAMP/Protein Kinase A-Dependent Signaling in Kidney.**
Mol Pharmacol. 2021 May; 99(5):358-369.
Salhadar K, Matthews A, Raghuram V, Limbutara K, Yang CR, Datta A, Chou CL, Knepper MA
- 2020 • **PKA-independent vasopressin signaling in renal collecting duct.**
FASEB J. 2020 May; 34(5):6129-6146.
Datta A, Yang CR, Limbutara K, Chou CL, Rinschen MM, Raghuram V, Knepper MA
- 2019 • **RNA-Seq and protein mass spectrometry in microdissected kidney tubules reveal signaling processes initiating lithium-induced nephrogenic diabetes insipidus.**
Kidney Int. 2019 Aug; 96(2):363-377.
Sung CC, Chen L, Limbutara K, Jung HJ, Gilmer GG, Yang CR, Lin SH, Khositseth S, Chou CL, Knepper MA
- 2019 • **Phosphorylation Changes in Response to Kinase Inhibitor H89 in PKA-Null Cells.**
Sci Rep. 2019 Feb 26; 9(1):2814.
Limbutara K, Kelleher A, Yang CR, Raghuram V, Knepper MA

- 2018 ● **From Molecules to Mechanisms: Functional Proteomics and Its Application to Renal Tubule Physiology.**
Physiol Rev. 2018 Oct 1; 98(4):2571-2606.
Rinschen MM, Limbutara K, Knepper MA, Payne DM, Pisitkun T
- 2018 ● **RNA sequencing of kidney distal tubule cells reveals multiple mediators of chronic aldosterone action.**
Physiol Genomics. 2018 May 1; 50(5):343-354.
Poulsen SB, Limbutara K, Fenton RA, Pisitkun T, Christensen BM
- 2015 ● **Proteomic analysis of the kidney filtration barrier—Problems and perspectives.**
Proteomics Clin Appl. 2015 Dec; 9(11-12):1053-68.
Rinschen MM, Benzing T, Limbutara K, Pisitkun T



POSTERS

2016



Quantitative Phosphoproteomic Analysis of Rat Renal Cortical Tubules in Response to Phospholipase A2 from Russell's Viper Venom.

Poster for 2016 The ASN Kidney Week,

📍 Chicago, USA

Limbutara K, Somparn P, Pakmanee N, Chanhom L, Khow O, Chaiyabutr N, Sitprija V, Praditpornsilpa K, Pisitkun T.

2016



Please Mind The Gap: The New Anion Gap Reference Values for Classification of Metabolic Acidosis.

Poster for 2016 Annual meeting of the Royal College of Physician of Thailand

📍 Pattaya, Thailand

Limbutara K, Katavetin P, Eiam-Ong S, Praditpornsilpa K.



HONORS AND AWARDS

- 2016 ● **Fellowship Investigator Award, the Nephrology Society of Thailand**
- 2013 ● **Highest score in the Thai board of internal medicine examination**
- 2013 ● **Outstanding Internal Medicine Resident award, Hatyai Hospital**
- 2009 ● **Highest score in the Thai national medical competency assessment examination (Clinical science)**
- 2004-2008 ● **Educational awards for achieving the highest score in 7 classes**
- Cell Biology
 - Neuroscience
 - Medical Physiology
 - Principle of Pathology
 - Principle of Pharmacology
 - General Surgery
 - Evidence-based Medicine