

# 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

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|------|--|
| 2010 | ● <b>Chulalongkorn University</b><br>Doctor of Medicine (1st Class Honours, GPAX 3.87)<br> Bangkok, Thailand  |
| 2014 | ● <b>Hatyai Hospital</b><br>Diploma of The Thai Board of Internal Medicine  Songkhla, Thailand<br><br>Research: Prevalence of hypokalemia in adult with dengue virus infection.   |
| 2016 | ● <b>King Chulalongkorn Memorial Hospital</b><br>Diploma of The Thai Board of Nephrology  Bangkok, Thailand<br><br>Research: Quantitative Phosphoproteomic Analysis of Rat Renal Cortical Tubules in Response to Phospholipase A2 from Russell's Viper Venom. |



## PROFESSIONAL EXPERIENCE

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| 2010-2011           | ● <b>General Practitioner</b><br>Hatyai Hospital  Songkhla, Thailand                  |
| Nov 2010   Jan 2011 | ● <b>General Practitioner</b><br>Trakanphuetpol Hospital  Ubon Ratchathani , Thailand |
| 2011   2014         | ● <b>Internal Medicine Resident</b><br>Hatyai Hospital  Songkhla, Thailand            |
| 2014   2016         | ● <b>Nephrology Fellow</b><br>King Chulalongkorn Memorial Hospital  Bangkok, Thailand |
| 2016   2017         | ● <b>Nephrologist</b><br>King Chulalongkorn Memorial Hospital  Bangkok, Thailand      |

## CONTACT INFO

 [kaveel.md@gmail.com](mailto:kaveel.md@gmail.com)  
 [github.com/kaveelim](https://github.com/kaveelim)

## 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.

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|--------------|--|---|
| 2018         | <b>Postdoctoral Fellow</b>   |   |
|              | Epithelial Systems Biology Laboratory, Systems Biology Center,<br>NHLBI, NIH   |  Bethesda, MD, USA |
| 2019         | <ul style="list-style-type: none"><li>• Mass spectrometry-based proteomics.</li><li>• Kidney tubule microdissection.</li></ul> | <ul style="list-style-type: none"><li>• Developed shiny-based web applications.</li></ul>           |
| June<br>2020 | <b>Nephrologist</b>  |  Bangkok, Thailand |
|              | Sukumvit Hospital  |   |
| Present      |  |   |

## SELECTED PUBLICATIONS

- 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
- 2020 ● **Phosphoproteomic Identification of Vasopressin/cAMP/PKA-Dependent Signaling in Kidney.**  
Mol Pharmacol. 2020 Apr 3; ():  
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, Khositeth 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, Chanhome 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