

Curriculum Vitae

1. Name (Thai) อ.น.สพ.ดร.ศิวายุ รัตน์ะกนกชัย
(English) Dr. Siwayu Rattanakanokchai

2. Academic Position: Instructor

3. Affiliation and Contact Address

Division of Companion Animal Medicine,
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4. Educational Background

Degree	Field of Study	Institution	Year
Doctor of Philosophy (Ph.D.)	Interdisciplinary Veterinary Science	Faculty of Veterinary Medicine, Khon Kaen University	2025
Doctor of Veterinary Medicine (D.V.M.)	Veterinary Medicine	Faculty of Veterinary Medicine, Khon Kaen University	2014

5. Areas of Specialization

- 5.1.1. Veterinary Internal Medicine
- 5.1.2. Small Animal Cardiology
- 5.1.3. Echocardiography and thoracic imaging

6. International Publications

Rattanakanokchai, S., Fungbun, N., Senaphan, K., Jitpean, S., & Ployngam, T. (2025). Evaluation of Plasma Nitric Oxide and Serum Endothelial Nitric Oxide Synthase in Pulmonary Hypertensive Dogs: A Clinical and Echocardiography Investigation. *Veterinary sciences*, 12(5), 486. <https://doi.org/10.3390/vetsci12050486>

Rattanakanokchai, S., Fungbun, N. ., Senaphan, K. ., Jitpean, S. ., & Ployngam, T. . (2024). Symmetric dimethylarginine in dogs with pulmonary arterial hypertension. *The Thai Journal of Veterinary Medicine*, 54(1), 1–9. retrieved from <https://he01.tci-thaijo.org/index.php/tjvm/article/view/271773>

- lampanichakul, M., Mowong, C., Rachiwong, N., Potue, P., Khamseekaew, J., **Rattanakanokchai, S.**, Maneesai, P., Pocasap, P., & Pakdeechote, P. (2025). Unveiling the molecular mechanism of diosmin to resolve cardiovascular dysfunction and remodeling in hypertension. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 190, 118389. <https://doi.org/10.1016/j.biopha.2025.118389>
- Khamseekaew, J., lampanichakul, M., Potue, P., Maneesai, P., Tangsucharit, P., **Rattanakanokchai, S.**, & Pakdeechote, P. (2025). The Alleviative Effect of Naringin Against Cardiovascular Dysfunction and Remodeling in Hypertensive Rats by Suppressing the Angiotensin II Pathway. *Food science & nutrition*, 13(6), e70484. <https://doi.org/10.1002/fsn3.70484>
- Maneesai, P., Jan-O, B., Poasakate, A., **Rattanakanokchai, S.**, Tong-Un, T., Phuthong, S., & Pakdeechote, P. (2023). Limonin mitigates cardiometabolic complications in rats with metabolic syndrome through regulation of the IRS-1/GLUT4 signalling pathway. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 161, 114448. <https://doi.org/10.1016/j.biopha.2023.114448>
- Maneesai, P., Potue, P., Khamseekaew, J., Sangartit, W., **Rattanakanokchai, S.**, Poasakate, A., & Pakdeechote, P. (2023). Kaempferol protects against cardiovascular abnormalities induced by nitric oxide deficiency in rats by suppressing the TNF- α pathway. *European journal of pharmacology*, 960, 176112. <https://doi.org/10.1016/j.ejphar.2023.176112>
- Maneesai, P., Wattanathorn, J., Potue, P., Khamseekaew, J., **Rattanakanokchai, S.**, Thukham-Mee, W., Muchimapura, S. and Pakdeechote, P., (2023). Cardiovascular complications are resolved by tuna protein hydrolysate supplementation in rats fed with a high-fat diet. *Scientific Reports*. 13. 10.1038/s41598-023-39538-z.
- lampanichakul, M., Potue, P., **Rattanakanokchai, S.**, Maneesai, P., Khamseekaew, J., Settheetham-Ishida, W., & Pakdeechote, P. (2023). Limonin ameliorates cardiovascular dysfunction and remodeling in hypertensive rats. *Life sciences*, 327, 121834. <https://doi.org/10.1016/j.lfs.2023.121834>
- Chaihongsa, N., Sangartit, W., **Rattanakanokchai, S.**, Bunbupha, S., Pakdeechote, P. and Maneesai, P., (2023). S-44-2: Antihypertensive effect of Galangin in renal artery stenosis-induced hypertensive rats. *Journal of Hypertension*. 41. e97. 10.1097/01.hjh.0000913676.17519.79.
- Chaihongsa, N., Maneesai, P., Sangartit, W., **Rattanakanokchai, S.**, Potue, P., Khamseekaew, J., Bunbupha, S., & Pakdeechote, P. (2022). Cardiorenal dysfunction and hypertrophy

- induced by renal artery occlusion are normalized by galangin treatment in rats. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 152, 113231. <https://doi.org/10.1016/j.biopha.2022.113231>
- lampanichakul, M., Poasakate, A., Potue, P., **Rattanakanokchai, S.**, Maneesai, P., Prachaney, P., Settheetham-Ishida, W., & Pakdeechote, P. (2022). Nobiletin resolves left ventricular and renal changes in 2K-1C hypertensive rats. *Scientific reports*, 12(1), 9289. <https://doi.org/10.1038/s41598-022-13513-6>
- Prasartthong, P., Pakdeechote, P., Maneesai, P., Meeapat, S., Rattanakanokchai, S., Wunpathe, C., Apaijit, K., & Bunbupha, S. (2022). Imperatorin attenuates cardiac remodelling and dysfunction in high-fat/high-fructose diet-fed rats by modulating oxidative stress, inflammation, and Nrf-2 expression. *Tissue & cell*, 75, 101728. <https://doi.org/10.1016/j.tice.2021.101728>
- Prasatthong, P., Meeapat, S., **Rattanakanokchai, S.**, Khamseekaew, J., Bunbupha, S., Prachaney, P., Maneesai, P., & Pakdeechote, P. (2021). Galangin Resolves Cardiometabolic Disorders through Modulation of AdipoR1, COX-2, and NF- κ B Expression in Rats Fed a High-Fat Diet. *Antioxidants (Basel, Switzerland)*, 10(5), 769. <https://doi.org/10.3390/antiox10050769>
- Maneesai, P., lampanichakul, M., Chaihongsa, N., Poasakate, A., Potue, P., **Rattanakanokchai, S.**, Bunbupha, S., Chiangsaen, P., & Pakdeechote, P. (2021). Butterfly Pea Flower (*Clitoria ternatea* Linn.) Extract Ameliorates Cardiovascular Dysfunction and Oxidative Stress in Nitric Oxide-Deficient Hypertensive Rats. *Antioxidants (Basel, Switzerland)*, 10(4), 523. <https://doi.org/10.3390/antiox10040523>
- Poasakate, A., Maneesai, P., **Rattanakanokchai, S.**, Bunbupha, S., Tong-Un, T., & Pakdeechote, P. (2021). Genistein Prevents Nitric Oxide Deficiency-Induced Cardiac Dysfunction and Remodeling in Rats. *Antioxidants (Basel, Switzerland)*, 10(2), 237. <https://doi.org/10.3390/antiox10020237>
- Poasakate, A., Maneesai, P., **Rattanakanokchai, S.**, Bunbupha, S., Tong-Un, T., & Pakdeechote, P. (2021). Genistein Prevents Nitric Oxide Deficiency-Induced Cardiac Dysfunction and Remodeling in Rats. *Antioxidants (Basel, Switzerland)*, 10(2), 237. <https://doi.org/10.3390/antiox10020237>
- Meeapat, S., Prasatthong, P., **Rattanakanokchai, S.**, Bunbupha, S., Maneesai, P., & Pakdeechote, P. (2021). Diosmetin attenuates metabolic syndrome and left ventricular alterations via the suppression of angiotensin II/AT1 receptor/gp91phox/p-NF- κ B

protein expression in high-fat diet fed rats. *Food & function*, 12(4), 1469–1481.
<https://doi.org/10.1039/d0fo02744h>

Wunpathe, C., Maneesai, P., **Rattanakanokchai, S.**, Bunbupha, S., Kukongviriyapan, U., Tongun, T., and Pakdeechote, P., (2020). Tangeretin mitigates L-NAME-induced ventricular dysfunction and remodeling through AT1R/pERK1/2/pJNK signaling pathway in rats. *Food & Function*. 11. 10.1039/C9FO02365H.

7. Speaking Engagements and Achievements

Date	Conference and topic	Organization
5-8 May 2026	Prepare to be a good VET 16 th : POA Cough and Dyspnea	The Veterinary Practitioner Association of Thailand (VPAT)
17 April 2026	VPAT Academy 2026: Espresso Series No.5 Medium Roast Series: Fluid and Electrolyte Therapy in the Patient with Cardiac Disease	The Veterinary Practitioner Association of Thailand (VPAT)
4 June 2025	VRVC Conference topic: Radiographic Assessment of the Cardiac Silhouette in Dogs and Cats	The Veterinary Practitioner Association of Thailand (VPAT)
24 April 2025	Brush up on your clinical skills: from basic to advance) topic: Diagnosis and Management of Canine Pulmonary Hypertension: an up to date	Faculty of Veterinary Medicine - Khon Kaen University
25 January 2024	Brush up on your clinical skills: from basic to advance) topic: Feline Cardiomyopathy: Classification and Management	Faculty of Veterinary Medicine - Khon Kaen University
20 April 2023	Brush up on your clinical skills: from basic to advance) topic: Thoracic Radiography Interpretation: Easier than you think	Faculty of Veterinary Medicine - Khon Kaen University
1 September 2022	Speaker in KVAC 23 rd (2022) conference topic: Feline hypertrophic cardiomyopathy: what are challenge for diagnosis and treatment	Faculty of Veterinary Medicine - Khon Kaen University
28 October 2021	Brush up on your clinical skills: from basic to advance) topic: Top 5 Common heart diseases in dogs and cats	Faculty of Veterinary Medicine - Khon Kaen University