



## WANPITAK PONGKAN

### วันพิทักษ์ ปองกัน

#### ACADEMIC POSITION:

Instructor

#### E-MAIL:

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#### CONTACT :

Division of Veterinary Pre-clinical Sciences  
Department of Veterinary Bioscience  
and Veterinary Public Health

#### RESEARCH INTERESTS:

- FCARDIAC ELECTROPHYSIOLOGY
- CARDIAC FUNCTION AND CARDIAC MITOCHONDRIAL FUNCTION
- SMALL ANIMAL CARDIOPULMONARY MEDICINE
- HEART RATE VARIABILITY
- CARDIAC ISCHEMIA AND REPERFUSION INJURY

#### EDUCATION

**Chiang Mai University, Chiang Mai, Thailand**  
PH.D. (CARDIAC ELECTROPHYSIOLOGY)

**Khon Kaen University, Khon Kaen, Thailand**  
D.V.M.

**Chiang Mai University, Chiang Mai, Thailand**  
B.SC.(PHYSICAL THERAPY)

#### MOST RECENT PUBLICATIONS :

1. Boonyapakorn C, Sawatphakdee G, Poolsawat N, Punyapornwithaya V, **Pongkan W\***. Estrogen deprivation induces lipid profile impairment but not cardiac dysfunction in ovariohysterectomized dogs. *Pol J Vet Sci.* 2020; 23(4)
2. **Pongkan W**, Jinawong K, Prachayasakul W, Jaiwongkam T, Kredphoo S, Tokuda M, Chattipakorn SC, Chattipakorn N. D-allulose Provides Cardioprotective Effect by Attenuating Cardiac Mitochondrial Dysfunction in Obesity-Induced Insulin Resistant Rats. *Eur J Nutr.* 2020 (in press)
3. **Pongkan W**, Jitnapakarn W, Phetnoi W, Punyapornwithaya V, Boonyapakorn C. Obesity-Induced Heart Rate Variability Impairment and Decreased Systolic Function in Obese Male Dogs. *Animals* 2020, 10(8), 1383.
4. **Pongkan W**, Banjongkankul W, Ketyungyuenwong P, Kongtueng P, Buddhachat K, Nganvongpanit K. New Findings of Branching Variations in Subclavian Arteries and Supra-Aortic Arteries in *Felis catus*. *Anatomical Science International.* 2020 Sep;95(4):440-454.
5. Pongkan W, Pintana H, Jaiwongkam T, Kredphoo S, Sivasinprasasn S, Chattipakorn SC, Chattipakorn N. Vildagliptin reduces cardiac ischemic-reperfusion injury in obese-orchietomized rats. *J Endocrinol.* 2016 Oct; 231(1):81-95.
6. **Pongkan W**, Pintana H, Sivasinprasasn S, Jaiwongkam T, Chattipakorn N, Chattipakorn SC. Testosterone deprivation accelerates cardiac dysfunction in obese male rats. *J Endocrinol.* 2016 Jun;229(3):209-20.
7. **Pongkan W**, Chattipakorn SC, Chattipakorn N. Roles of Testosterone Replacement in Cardiac Ischemia-Reperfusion Injury. *J Cardiovasc Pharm Ther.* 2016;21(1):27-43.
8. **Pongkan W.**, Takatori O., Ni Y., Xu L., Nagata N., Chattipakorn SC., Usui S., Kaneko S., Takamura M., Sugiura M., Chattipakorn N. and Ota T.  $\beta$ -Cryptoxanthin exerts greater cardioprotective effects on cardiac ischemia-reperfusion injury than astaxanthin by attenuating mitochondrial dysfunction in mice. *Mol. Nutr. Food Res.* 2017 Oct; 61(10).
9. Thassakorn P, Patchanee P, **Pongkan W**, Chattipakorn N, Boonyapakorn C. Effect of atorvastatin on oxidative stress and inflammation markers in myxomatous mitral valve disease in dogs: A comparison of subclinical and clinical stages. 2019, *J Vet Pharmacol Ther.* 2019 Jan 21.
10. Chueainta P, **Pongkan W**, Boonyapakorn C. Clinical applications of heart rate variability in dogs. 2019, *Veterinary Integrative Science* 2019; 17(3): 195-220.
11. Boonyapakorn C, Pinsuwan T, Chumpuchai T, **Pongkan W**, Testosterone deprivation increases tendency to obesity but does not affect cardiac function in dogs. 2019, *Veterinary Integrative Science* 2019; 17(3): 245-254.
12. Nuntaphum W, **Pongkan W**, Wongjaikam S, Thummasorn S, Tanajak P, Khamseekaew J, Intachai K, Chattipakorn SC, Chattipakorn N, Shinlapawittayatorn K. Vagus nerve stimulation exerts cardioprotection against myocardial ischemia/reperfusion injury predominantly through its efferent vagal fibers. *Basic Res Cardiol.* 2018 May 9;113(4):22.
13. Thitaram C, Matchimakul P, **Pongkan W**, Tangphokhanon W, Maktrirat R, Khonmee J, Sathanawongs A, Kongtueng P, Nganvongpanit K. Histology of 24 organs from Asian elephant calves (*Elephas maximus*). 2018, *PeerJ* 6:e4947.
14. Mangkhang K, Punyapornwithaya V, Tankaew P, **Pongkan W**, Chattipakorn N, Boonyapakorn C. Plasma humanin as a prognostic biomarker for canine myxomatous mitral valve disease: a comparison with plasma NT-roBNP. 2018, *Pol J Vet Sci.* 2018 Dec;21(4):673-680.