



Curriculum Vitae

NAME Mr. Pongsak Rattanachaikunsopon

POSITION Professor

ADDRESS Department of Biological Science, Faculty of Science,
Ubon Ratchathani University,
Warin Chamrap, Ubon Ratchathani 34190, Thailand
Tel. (045) 288380 Fax. (045) 288379
E-mail : rattanachaikunsopon@yahoo.com

Orcid Id: <https://orcid.org/0000-0003-0301-2624>

SCOPUS ID 14422621300

EDUCATION

University	Field of study	Degree	Year
Mahidol University (Bangkok, Thailand)	Radiological Technology	B.Sc. (First Class Honor)	1989
Mahidol University (Bangkok, Thailand)	Anatomy	M.Sc.	1990
Lehigh University (Pennsylvania USA)	Molecular Biology	Ph.D.	1998

AWARDS

- 1990 Professor Sood Saengvichain Award
For Best Research and Presentation in 13th Annual Meeting of the Society of
Anatomy of Thailand
- 1991 Professor Dr. Tab Nilanidhi Foundation Award
For the outstanding graduate student in Anatomy
- 2014 Best Government Officer, The Ministry of Education

SCHOLARSHIPS

- 1989-1990 Scholarship from the Science and Technology Development Board
For M.Sc. program in Anatomy at Mahidol University
- 1994-1997 Scholarship from Ministry of University Affairs, Thailand
For Ph.D. program in Molecular Biology at Lehigh University

WORKING EXPERIENCE

- 1992-1993 Lecturer
Department of Anatomy, Faculty of Science,
Rungsit University, Pratumthani, Thailand
- 1997-1999 Lecturer
Department of Biological Science, Faculty of Science,
Ubon Ratchathani University, Ubon Ratchathani, Thailand
- 2000-2005 Asstant Professor
Department of Biological Science, Faculty of Science,
Ubon Ratchathani University, Ubon Ratchathani, Thailand
- 2006-2014 Associate Professor
Department of Biological Science, Faculty of Science,
Ubon Ratchathani University, Ubon Ratchathani, Thailand
- 2014-present Professor
Department of Biological Science, Faculty of Science,
Ubon Ratchathani University, Ubon Ratchathani, Thailand
- 2018-2020 Academic Council Committee of Ubon Ratchathani Rajabhat
Universuty

PUBLICATIONS

International Publications

1. **Rattanachaikunsopon P**, Sudwan P, Chunhabundit P, Bamroongwong S, Somana R: Thyroid microvasculature in common tree shrew (*Tupaia glis*) as revealed by corrosion cast technique and studied with SEM. *Acta Anatomica* 1991; 142: 208-214.
2. Sudwan P, Chunhabundit P, Bamroongwong S, **Rattanachaikunsopon P**, Somana R: Hypophyseal angioarchitecture of common tree shrew (*Tupaia glis*) revealed by scanning electron microscopy of vascular corrosion casts. *The American Journal of Anatomy* 1991; 192: 262-273.
3. Bamroongwong S, Somana R, Rojananeungnit S, Chunhabundit P, **Rattanachaikunsopon P**: Scanning electron microscopic study of the splenic vascular casts of common tree shrew (*Tupaia glis*). *Anatomy and Embryology* 1991; 184 (3): 301-304.
4. Bamroongwong S, Chunhabundit P, **Rattanachaikunsopon P**, Somana R: Pancreatic microcirculation in the common tree shrew (*Tupaia glis*) as revealed by scanning electron microscopy of corrosion casts. *Acta Anatomica* 1992; 143: 184-188.
5. **Rattanachaikunsopon P**, Rosch C, Kuchka M: Cloning and characterization of the nuclear AC115 gene of *Chlamydomonas reinhardtii*. *Plant Molecular Biology* 1999; 39 (1): 1-10.
6. **Rattanachaikunsopon P**, Phumkhachorn P: Lactic acid bacteria isolated from Thai fermented foods and their antibacterial activity. *ASEAN Journal on Science and Technology for Development* 1999, 16(2): 19-29.
7. **Rattanachaikunsopon P**, Phumkhachorn P : A bacteriocin produced by *Lactobacillus lactis* subsp. *lactis* isolated from Thai fermented foods. *ScienceAsia* 2000; 26(4): 195-200.
8. **Rattanachaikunsopon P**, Phumkhachorn P: Isolation and preliminary characterization of a bacteriocin produced by *Lactobacillus plantarum* N014 isolated from nham, a traditional Thai fermented pork. *Journal of Food Protection* 2006, 69(8): 1937-1943.
9. Phumkhachorn P, **Rattanachaikunsopon P**, Khunsook S: The use of *gfp* gene in monitoring bacteriocin-producing *Lactobacillus plantarum* N014, a potential starter culture in nham fermentation. *Journal of Food Protection* 2007, 70(2): 419-424.

10. **Rattanachaikunsopon P**, Phumkhachorn P: Bacteriostatic effect of flavonoids isolated from leaves of *Psidium guajava* on fish pathogens. *Fitoterapia* 2007, 78(6): 434-436.
11. **Rattanachaikunsopon P**, Phumkhachorn P: Incidence of nisin Z production in *Lactococcus lactis* subsp. *lactis* TFF 221 isolated from Thai fermented foods. *Journal of Food Protection* 2008, 71(10): 2024-2026.
12. **Rattanachaikunsopon P**, Phumkhachorn P: Characterization of nisin produced by *Lactococcus lactis* RP359 isolated from Kem-Buk-Nud, a traditional Thai fermented food. *The Internet Journal of Microbiology* 2008, 5(1).
13. **Rattanachaikunsopon P**, Phumkhachorn P: Diallyl sulfides content and antimicrobial activity against foodborne pathogenic bacteria of chives (*Allium schoenoprasum*). *Bioscience, Biotechnology and Biochemistry* 2008, 72(11): 2987-2991.
14. Pachanawan A, Phumkhachorn P, **Rattanachaikunsopon P**: Potential of *Psidium guajava* supplemented fish diets in controlling *Aeromonas hydrophila* infection in tilapia (*Oreochromis niloticus*). *Journal of Biotechnology and Bioengineering* 2008, 106(5): 419-422.
15. **Rattanachaikunsopon P**, Phumkhachorn P: Prophylactic effect of *Andrographis paniculata* extracts against *Streptococcus agalactiae* infection in Nile tilapia (*Oreochromis niloticus*). *Journal of Biotechnology and Bioengineering* 2009, 107(5): 579-582.
16. **Rattanachaikunsopon P**, Phumkhachorn P: Antimicrobial activity of elephant garlic oil against *Vibrio cholerae* both *in vitro* and in food model. *Bioscience, Biotechnology and Biochemistry* 2009, 73(7): 623-627.
17. **Rattanachaikunsopon P**, Phumkhachorn P: Glass bead transformation method for Gram-positive bacteria. *Brazilian Journal of Microbiology* 2009, 40: 923-926.
18. **Rattanachaikunsopon P**, Phumkhachorn P: Protective effects of clove oil supplemented fish diets on experimental *Lactococcus garvieae* infection in tilapia. *Bioscience, Biotechnology and Biochemistry* 2009, 73(9): 2085-2089.
19. **Rattanachaikunsopon P**, Phumkhachorn P: Glass bead-based transformation method for lactic acid bacteria. *ScienceAsia* 2009, 35:234-241.
20. **Rattanachaikunsopon P**, Phumkhachorn P: Potential of Chinese chive oil as a natural antimicrobial for controlling *Flavobacterium columnare* infection in Nile tilapia *Oreochromis niloticus*. *Fisheries Science* 2009, 75:1431-1437.
21. **Rattanachaikunsopon P**, Phumkhachorn P: Shallot (*Allium ascalonicum* L.) oil: diallyl sulfide content and antimicrobial activity against food-borne pathogenic bacteria. *African Journal of Microbiology Research* 2009, 3:747-750.
22. **Rattanachaikunsopon P**, Phumkhachorn P: *In vitro* study of synergistic antimicrobial effect of carvacrol and cymene on drug resistant *Salmonella typhi*. *African Journal of Microbiology Research* 2009, 3:978-980.
23. **Rattanachaikunsopon P**, Phumkhachorn P: Use of *Centella asiatica* aqueous extract as bath treatment to control columnaris in tilapia (*Oreochromis niloticus*). *Journal of Aquatic Animal Health* 2010, 22:14-20.
24. **Rattanachaikunsopon P**, Phumkhachorn P: Potential of coriander (*Coriandrum sativum*) oil as a natural antimicrobial in inhibiting *Campylobacter jejuni* in raw meat. *Bioscience, Biotechnology and Biochemistry* 2010, 74:31-35.
25. **Rattanachaikunsopon P**, Phumkhachorn P: Synergistic antimicrobial effect of nisin and p -cymene against *Salmonella enterica* serovar Typhi *in vitro* and on ready-to-eat food. *Bioscience, Biotechnology and Biochemistry* 2010, 74:520-524.

26. **Rattanachaikunsopon P**, Phumkhachorn P: Potential of cinnamon (*Cinnamomum verum*) oil in controlling *Streptococcus iniae* infection in tilapia (*Oreochromis niloticus*). *Fisheries Science* 2010, 76:287-293.
27. **Rattanachaikunsopon P**, Phumkhachorn P: Contents and antibacterial activity of flavonoids extracted from leaves of *Psidium guajava*. *Journal of Medicinal Plants Research* 2010, 4:393-396.
28. **Rattanachaikunsopon P**, Phumkhachorn P: Assessment of synergistic efficacy of carvacrol and cymene against *Edwardsiella tarda* *in vitro* and in tilapia (*Oreochromis niloticus*). *African Journal of Microbiology Research* 2010, 4:420-425.

29. Thamnamton W, Boonsarn V, Phumkhachorn P, **Rattanachaikunsopon P**: Isolation and characterization of a bacteriophage specific to drug resistant *Klebsiella pneumoniae* DR1. *International Journal of Current Research and Review* 2010, 2 (4):30-43.
30. **Rattanachaikunsopon P**, Phumkhachorn P: Effect of *Cratoxylum formosum* on innate immune response and disease resistance against *Streptococcus agalactiae* in tilapia *Oreochromis niloticus*. *Fisheries Science* 2010, 76:653-659.
31. **Rattanachaikunsopon P**, Phumkhachorn P: Antimicrobial activity of basil (*Ocimum basilicum*) oil against *Salmonella* Enteritidis *in vitro* and in food. *Bioscience, Biotechnology and Biochemistry* 2010, 74:1200-1204.
32. Phumkhachorn P, **Rattanachaikunsopon P**: Isolation and partial characterization of a bacteriophage infecting the shrimp pathogen *Vibrio harveyi*. *African Journal of Microbiology Research* 2010, 4:1794-1800.
33. **Rattanachaikunsopon P**, Phumkhachorn P: Assessment of factors influencing antimicrobial activity of carvacrol and cymene against *Vibrio cholerae* in food. *Journal of Bioscience and Bioengineering* 2010, 110:614-619.
34. **Rattanachaikunsopon P**, Phumkhachorn P: Lactic acid bacteria: their antimicrobial compounds and their uses in food production. *Annals of Biological Research* 2010, 1:218-228.
35. **Rattanachaikunsopon P**, Phumkhachorn P: Bacteriophages: Discovery and therapeutic uses in humans and animals. *International Journal of Current Research and Review* 2010, 2 (11):3-8.
36. Phumkhachorn P, **Rattanachaikunsopon P**: Bacteriophage specific to nisin producing-*Lactococcus lactis* subsp. *Lactis* TFF221, a starter culture in Thai fermented food. *African Journal of Microbiology Research* 2011, 5(6): 1203-1210.
37. **Rattanachaikunsopon P**, Phumkhachorn P: Detection of *Aeromonas salmonicida* by reverse transcription-multiplex polymerase chain reaction. *Bioscience, Biotechnology and Biochemistry* 2012, 76(4): 665-670.
38. **Rattanachaikunsopon P**, Phumkhachorn P: Identification of viable *Listeria* species based on reverse transcription-multiplex PCR (RT-PCR) and restriction digestion. *Bioscience, Biotechnology and Biochemistry* 2012, 76(6): 1189-1194.
39. **Rattanachaikunsopon P**, Phumkhachorn P: Construction of food-grade cloning vector for *Lactobacillus plantarum* and its utilization in food model. *Journal of General and Applied Microbiology* 2012, 58(4): 317-324.

40. Phumkhachorn P, **Rattanachaikunsopon P**: Isolation and characterization of lytic phage against *Lactococcus lactis* RP359, kem-buk-nud starter culture. African Journal of Microbiology Research 2012, 6(37): 6678-6684.
41. Surapat W, Pukahuta C, **Rattanachaikunsopon P**, Aimi T, Boonlue S: Characterization of phosphate solubilization by phosphate-solubilizing bacteria isolated from agricultural chili soil and their efficiency on the growth of chili (*Capsicum frutescens* L. cv. Hua Rua). Chiang Mai Journal of Science 2013, 40(1): 11-25.
42. Butprom S, Phumkhachorn P, **Rattanachaikunsopon P**: Effect of *Lactobacillus plantarum* C014 on innate immune response and disease resistance against *Aeromonas hydrophila* in hybrid catfish. The Scientific World Journal 2013, 2013:1-6.
43. **Rattanachaikunsopon P**, Phumkhachorn P: Bacteriophage ϕ LPN014 infecting *Lactobacillus plantarum* N014, a potential starter culture for NHAM fermentation. Annals of Experimental Biology 2014, 2(1):1-7.
44. Somnate T, Phumkhachorn P, **Rattanachaikunsopon P**: Potential of virulent bacteriophage as a biocontrol agent against *Salmonella* Typhimurium in beverages. Journal of Pure and Applied Microbiology 2014, 8(2):1131-1139.
45. Phumkhachorn P, **Rattanachaikunsopon P**: A lytic bacteriophage with potential for inactivation of a fish pathogenic *Streptococcus agalactiae*. Journal of Pure and Applied Microbiology 2014, 8(Spl. Edn. 2):371-379.
46. Punyauppa-path S, Phumkhachorn P, **Rattanachaikunsopon P**: Nisin: Production and mechanism of action. International Journal of Current Research and Reviews 2015, 7(2): 47-53.
47. Phumkhachorn P, **Rattanachaikunsopon P**: Therapeutic use of *Cassia alata* aqueous extract as bath treatment to control *Pseudomonas anguilliseptica* infection in tilapia (*Oreochromis niloticus*). Archives of Biological Sciences 2015, 67(4): 1165-1172.
48. Punyauppa-path S, Phumkhachorn P, **Rattanachaikunsopon P**: Factors influencing synergistic antimicrobial activity of thymol and nisin against *Shigella* spp. in sugarcane juice. Biologia 2015, 7(8): 1003-1010.
49. Phumkhachorn P, **Rattanachaikunsopon P**: A *Siphoviridae* bacteriophage specific to Extended-spectrum b-lactamases-producing *Escherichia coli*. Journal of Chemical and Pharmaceutical Research 2015, 7(11): 604-608.
50. Panya M, Lulitanond V, **Rattanachaikunsopon P**, Srivoramas T, Chaiwong T: Isolation, Identification and Evaluation of Novel Probiotic Strains isolated from Feces of Breast-Fed Infant. Journal of the Medical Association of Thailand 2016, 99 Suppl 1: S28-S34.
51. Phumkhachorn P, **Rattanachaikunsopon P**: A broad host range food-grade cloning vector for lactic acid bacteria. Biologia 2016, 71(5): 457-463.
52. Phumkhachorn P, **Rattanachaikunsopon P**: Detection of viable *Salmonella* Typhi using three primer pairs specific to *invA*, *ivaB* and *fliC-d* genes. Emirates Journal of Food and Agriculture 2017, 29(4): 312-316.
53. **Rattanachaikunsopon P**, Phumkhachorn P. Bacteriophages as Future Prophylactic and Therapeutic Agents against Foodborne Bacterial Pathogens. International Journal of Nutrition and Health Sciences 2017, 2(1): 19-20.
54. Rattanaborvorn W., Phumkhachorn P, **Rattanachaikunsopon P**: Potential of Bacteriophages in Controlling Drug Resistant *Shigella sonnei*. Asian Journal of Microbiology, Biotechnology and Environmental Science 2017, 19(3): 256-530.

55. Phumkhachorn P, **Rattanachaikunsopon P**: Bacteriophage therapy as a future preventive and curative approach against bacterial infections in aquaculture. *Multidisciplinary Advances in Veterinary Science* 2017, 1(4): 167-168.
56. Phumkhachorn P, **Rattanachaikunsopon P**: Potential of bacteriophage PUB 36 to enhance nonspecific immune response and disease resistance of tilapia (*Oreochromis niloticus*). *Asian Journal of Microbiology, Biotechnology and Environmental Sciences* 2018, 20(Feb. Suppl.): S69-S73.
57. Phumkhachorn P, **Rattanachaikunsopon P**: Multiplex PCR based detection of *Salmonella enterica* serovars Typhi, Paratyphi A, B and C in drinking water and food. *Asian Journal of Microbiology, Biotechnology and Environmental Sciences* 2018, 20(2): 493-500.
58. Phumkhachorn P, **Rattanachaikunsopon P**: A lytic podophage specific to fish pathogenic *Edwardsiella tarda*. *Pakistan Journal of Biotechnology* 2018, 15(1): 117-121.
59. **Rattanachaikunsopon P**, Phumkhachorn P: Functional food: what are they? and why are they so popular? *Acta Scientific Nutritional Health* 2018, 2(11): 26-27.
60. **Rattanachaikunsopon P**, Phumkhachorn P: Detection of a plasmid containing cadmium resistance gene for lactic acid bacteria isolated from foods. *Asian Journal of Agriculture and Biology* 2018, 6(4): 530-534.
61. Pornnikom P, Phumkhachorn P, **Rattanachaikunsopon P**: Synergistic Effect of Bacteriophage and Ampicillin against *Shigella dysenteriae*. *Bio Bulletin* 2019, 5(1): 5-9.
62. Phumkhachorn P, Kamsa S, **Rattanachaikunsopon P**: Effect of temperature on antimicrobial activity and mode of action of thymol against *Staphylococcus aureus*. *Indian Journal of Science and Technology* 2019, 12(15): 1-5.
63. Phumkhachorn P, **Rattanachaikunsopon P**: Chlorpyrifos degrading *Pseudomonas stutzeri* isolated from pesticide contaminated soil. *Asian Journal of Agriculture and Biology* 2020, 8(3): 268-273.
64. Phumkhachorn P, **Rattanachaikunsopon P**: Use of bacteriophage to control experimental *Aeromonas hydrophila* infection in tilapia (*Oreochromis niloticus*). *Pakistan Journal of Biological Sciences* 2020, 23(12): 1659-1665.
65. **Rattanachaikunsopon P**, Phumkhachorn P: A glimpse of COVID-19 situation in Thailand. *International Journal of Current Research and Review* 2020, 12 (23): 1-2.
66. **Rattanachaikunsopon P**, Phumkhachorn P: New Surge of COVID-19 Infected Cases in Thailand. *International Journal of Current Research and Review* 2021, 13 (2): 1.
67. **Rattanachaikunsopon P**, Phumkhachorn P: Third wave of COVID-19 in Thailand. *International Journal of Current Research and Review* 2021, 13 (9): 1-2.
68. **Rattanachaikunsopon P**, Phumkhachorn P: Antimicrobial synergism between bacteriophage UBU-SA1 and oxacillin against *Staphylococcus aureus*. *International Journal of Current Research and Review* 2021, 13(19): 173-177.
69. Tingthong S, Suwanakood P, **Rattanachaikunsopon P**, Sangswan J: Production of endoglucanases by *Streptomyces thermocoprophilus* CP1 using rice straw as a substrate. *Journal of Pure and Applied Microbiology* 2021, 15(4): 1963-1975.

Book Chapters

1. **Rattanachaikunsopon P**, Phumkhachorn P. Composition and antimicrobial properties of essential oils from Chinese-Thai herbs and spices. In: Valgimigli V, editor. *Essential oils as natural food additives: composition, applications,*

antioxidant and antimicrobial properties. New York: Nova Science Publishers; 2012: pp. 153-172.

2. **Rattanachaikunsopon P**, Phumkhachorn P. Bacteriophage PPST1 isolated from hospital wastewater, a potential therapeutic agent against drug resistant *Salmonella enterica* subsp. *enterica* serova Typhi. In: Annous BA, Gurtler JB, editors. Salmonella-distribution, adaptation, control measures and molecular technologies. Croatia: InTech-Open Access Publisher; 2012: pp. 159-172.