

Curriculum Vitae

1. Personal Data



Name: Associate Professor Uraiwan Panich M.D., Ph.D., FCFPT (Cert.)

Address of present Institution: Department of Pharmacology
Faculty of Medicine Siriraj Hospital Mahidol University,
Bangkok 10700, Thailand

Birth date: 13 April 1972

Phone: 0-2419-7565 **Fax:** 0-2411-5026

E-mail: uraiwan.pan@mahidol.ac.th

2. Education

<u>Degree</u>	<u>Year</u>	<u>Conferring Institution</u>
Doctor of Medicine	1996	Faculty of Medicine Ramathibodhi hospital, Mahidol University, Thailand
Ph.D. (Pharmacology)	2003	King's College, University of London, UK (2000-2004)
Dip Thai Board in Family Medicine	2004	The College of Family Physicians of Thailand

3. Professional Experience

<u>Dates</u>	<u>Position</u>	<u>Department/Institution</u>
2012 – present	Associate Professor	Department of Pharmacology, Faculty of Medicine Siriraj Hospital, Mahidol University, Thailand
2008 – 2012	Assistant Professor	
1997 – 2008	Lecturer	
Feb 2001	Ph.D. student	Department of Biochemistry, Faculty of Medicine, National University of Singapore, Singapore

<u>Dates</u>	<u>Position</u>	<u>Department/Institution</u>
Oct 1998	Ph.D. student	International Antioxidant Research Centre, Wolfson Centre for Age Related Diseases, Guy's, King's and St Thomas' School of Biomedical Sciences, University of London, UK
April 1997	Physician	Bangbor Hospital, Samutprakarn, Thailand
April 1996	Physician	

4. Publications

1. Jeayeng S, Wongkajornsilp A, Slominski AT, Jirawatnotai S, Sampattavanich S, Panich U. Nrf2 in keratinocytes modulates UVB-induced DNA damage and apoptosis in melanocytes through MAPK signaling. *Free Radic Biol Med.* 2017;108:918-928.
2. Chaiprasongsuk A, Lohakul J, Soontrapa K, Sampattavanich S, Akarasereenont P, Panich U. Activation of Nrf2 reduces UVA-mediated MMP-1 upregulation via MAPK/AP-1 signaling cascades: the photoprotective effects of sulforaphane and hispidulin. *J Pharmacol Exp Ther* 2017;360:388-398. DOI: <https://doi.org/10.1124/jpet.116.238048>.
3. Thamsermsang O, Akarasereenont P, Laohapand T, Panich U. IL-1 α -induced modulation of gene expression profile in human dermal fibroblasts: the effects of Thai herbal Sahatsatara formula, piperine and gallic acid possessing antioxidant properties. *BMC Complement Altern Med* 2017;17:32. DOI: 10.1186/s12906-016-1515-0.
4. Panich U, Sittithumcharee G, Rathviboon N, Jirawatnotai S. Ultraviolet radiation-induced skin aging: The role of DNA damage and oxidative stress in epidermal stem cell damage mediated skin aging. *Stem Cells Int* 2016;2016: Article ID 7370642.
5. Chaiprasongsuk A, Onkoksoong T, Pluemsamran T, Limsaengurai S, Panich U. Photoprotection by dietary phenolics against melanogenesis induced by UVA through Nrf2-dependent antioxidant responses. *Redox Biol* 2016;8:79-90.
6. Chaisiriwong L, Wanitphakdeedecha R, Sitthinamsuwan P, Sampattavanich S, Chatsiricharoenkul S, Manuskiatti W, Panich U. A case-control study of involvement of oxidative DNA damage and alteration of antioxidant defense system in patients with basal cell carcinoma: modulation by tumor removal. *Oxid Cell Longev Med* 2016;2016:5934024.

7. Thangboonjit W, Limsaengurai S, Pluemsamran T, Panich U. Comparative evaluation of antityrosinase and antioxidant activities of dietary phenolics and their activities in melanoma cells exposed to UVA. *Siriraj Med J* 2014;66:5-10.
8. Pluemsamran T, Tripatara P, Phadungrakwittaya R, Akarasereenont P, Laohapand T, Panich U. Redox mechanisms of AVS022, an oriental polyherbal formula, and its component herbs in protection against induction of matrix metalloproteinase-1 in UVA-irradiated keratinocyte HaCaT cells. *Evid Based Complement Alternat Med*. 2013;2013:739473-739482.
9. Panich U, Pluemsamran T, Tangsupa-a-nan V, Wattanarangsana J, Phadungrakwittaya R, Akarasereenont P, Laohapand T. Protective effect of AVS073, a polyherbal formula, against UVA-induced melanogenesis through a redox mechanism involving glutathione-related antioxidant defense. *BMC Complement Altern Med* 2013;13:159-168.
10. Pluemsamran T, Onkoksoong T, Panich U. Caffeic acid and ferulic acid inhibit UVA-induced matrix metalloproteinase-1 through regulation of antioxidant defense system in keratinocyte HaCaT cells. *Photochem Photobiol* 2012; 88: 961-968.
11. Panich U, Onkoksoong T, Limsaengurai S, Akarasereenont P, Wongkajornsilp A. UVA-induced melanogenesis and modulation of glutathione redox system in different melanoma cell lines: the protective effect of gallic acid. *J Photochem Photobiol B* 2012; 108: 16-22.
12. Huabprasert S, Kasetsinsombat K, Kangsadalampai K, Wongkajornsilp A, Akarasereenont P, Panich U, Laohapand T. The *Phyllanthus emblica* L. infusion carries immunostimulatory activity in a mouse model. *J Med Assoc Thai* 2012;95:75-82.
13. Panich U, Tangsupa-a-nan V, Onkoksoong T, Kongtaphan K, Kasetsinsombat K, Akarasereenont P, Wongkajornsilp A. Ascorbic acid inhibits UVA-mediated melanogenesis by modulating antioxidant defense and nitric oxide system. *Arch Pharm Res* 2011; 34: 811-820.
14. Panich U, Kongtaphan K, Onkoksoong T, Jaemsak K, Phadungrakwittaya R, Thaworn A, Akarasereenont P, Wongkajornsilp A. Modulation of antioxidant defense by *Alpinia galanga* and *Curcuma aromatica* extracts correlates with their inhibition of UVA-induced melanogenesis. *Cell Biol Toxicol* 2010; 26: 103-116.
15. Kongpatanakul S, Chatsiricharoenkul S, Panich U, Sathirakul K, Pongnarain P, Sangvanich P. A randomised, open-label, two-period, crossover, bioequivalence study of two oral formulations of 75 mg oseltamivir in healthy Thai volunteers. *Int J Clin Pharmacol Ther* 2008; 46: 654-62.
16. Panich U, Chatsiricharoenkul S, Sathirakul K, Pongnarain P, Bruminhent J, Thangboonjit W, Kongpatanakul S. Bioequivalence Study of a Single

- 150-mg Dose of Two Intramuscular Netilmicin Products in Thai Healthy Volunteers. *Siriraj Med J* 2008; 60: 259-263.
17. Ketsawatsakul U. Modulation by Bicarbonate of the Protective Effects of Phenolic Antioxidants on Peroxynitrite-mediated Cell Cytotoxicity. *ScienceAsia* 2007; 33: 273-282.
 18. Panich U, Ananta W, Onkoksoong T, Jaemsak K. Effects of cellular uptake of flavonoids against peroxynitrite-mediated cell cytotoxicity. *Siriraj Med J* 2007; 59: 237-241.
 19. Whiteman M, Ketsawatsakul U, Halliwell B. A reassessment of the peroxynitrite scavenging activity of uric acid. *Ann NY Acad Sci* 2002; 962: 242-259.
 20. Whiteman M, Ketsawatsakul U, Halliwell B. Inhibition of peroxynitrite-dependent tyrosine nitration and α 1-antiproteinase inactivation by antioxidants: modulatory effect of bicarbonate. In: *Micronutrients and Health: Molecular Biological Mechanisms*. 2001; (Eds. Nesaretnam, K. & Packer, L.) AOCS Press, IL, USA.
 21. Ketsawatsakul U, Whiteman M, Halliwell B. A re-evaluation of the peroxynitrite scavenging activity of some dietary phenolics. *Biochem Biophys Res Comm* 2000; 279: 692-699.

5. Prizes and Awards

1. TRF-OHEC-Scopus Researcher Award 2018
2. Distinguished Alumni Award (for academic achievement) 2017 from Faculty of Medicine Ramathibodhi hospital, Mahidol University.
3. Supervisor for PhD. Student, Miss Saowanee Jeayeng, receiving the Young Investigator Award (Poster Presentation) From Oxygen Club of California at Society of Free Radical Research-Asia 2015, Chiang Mai, Nov 29, 2015.
4. Supervisor for PhD. Student, Miss Anyamanee Chaiprasongsuk, receiving the 1st Consolation Prize for research presentation at the Graduate Research Forum, Faculty of Medicine Siriraj Hospital, Mahidol University, Jun 10, 2015.
5. Supervisor for PhD. Student, Miss Anyamanee Chaiprasongsuk, receiving the best paper award for research presentation at the Mahidol University Graduate Research Expo 2014 "MU Looks to the Future", Bangkok, Dec 1, 2014.
6. Supervisor for PhD. Student, Miss Saowanee Jeayeng, receiving the 1st Consolation Prize for research presentation at the Graduate Research Forum, Siriraj International Conference in Medicine and Public Health, Faculty of Medicine Siriraj Hospital, Mahidol University, Jul 15, 2014.
7. Supervisor for M.Sc. student, Miss Lapatsanan Chaisiriwong, receiving
8. the 1st runner up award for poster presentation at the 36th Congress of Pharmacological Society of Thailand, Mar 27-28, 2014.

9. Supervisor for PhD. student, Miss Saowanee Jeayeng, receiving the 1st Consolation Prize of the 3rd Merck Young Scientist Award for oral presentation at the Faculty of Science, Mahidol University, October 7, 2013.
10. Research Excellence award 2012 by Faculty of Medicine Siriraj Hospital, Mahidol University.
11. The Travel Award from PanAmerican Society of Pigment Cell Research (PASPCR) conference, Vancouver, Canada, Sept 30 - Oct 2, 2010.
12. Oral presentation award (2nd prize) in the 44th Siriraj Scientific Congress, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand; 16 Mar, 2004.