

SOMSAK NUALKAEW

1. **Name** : Mr. Somsak Nualkaew

2. **Birth day** : 14 Aug 1967

3. **Academic Ranks** : Associate Professor

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6. Educational Background

- 2004 Ph.D. (Pharmaceutical chemistry and phytochemistry), Mahidol University ,
Thailand
- 1999 Master of Science (Pharmaceutical chemistry and phytochemistry), Mahidol
University, Thailand
- 1994 Bachelor of Science in Chemistry, Ramkhamhaeng University, Thailand
- 1991 Diploma of Ayurvedic medicine, Ayurvedic school, Thailand
- 1991 Professional license : Thai traditional medicine
- 1989 Professional license : Thai traditional pharmacy
- 1989 Professional license : Thai traditional midwife

7. Work Experience

- 1990-1991 Lecturer, Ayurvedic school, Bangkok, Thailand
- 1994-1995 Chemist, Vesco pharmaceutical, Bangkok, Thailand
- 1999-present Lecturer, Faculty of Pharmacy, Mahasarakham University, Thailand
- 2000-2012 Professional committee of Applied Thai traditional medicine
- 2000-2012 Professional subcommittee of promotion and development of Applied Thai
traditional medicine
- 2015-2018 President of Ayurvedic applied Thai traditional medicine Society of Thailand

8. Scholarships and Awards

- 2000-2004 The Royal Golden Jubilee (RGJ) Ph.D. Programme, The Thailand Research Fund.
- 2002 German Academic Exchange Service (Deutscher Akademischer Austausch Dienst,
DAAD)
- 1997-1999 University Staff development Scholarship, Ministry of Education
- 2010 Outstanding Researcher Award , Faculty of Pharmacy, Mahasarakham University
- 2010 Short-term Research Grant by Mahasarakham University to research in Japan
- 2014 Outstanding Alumni Award, Ayurvedic Applied Thai Traditional Medical
Association of Thailand
- 2016 Distinguished Lecturer Award, Faculty of Pharmacy, Mahasarakham University
- 2017 Distinguished Lecturer Award, Mahasarakham University
- 2018 Thursday Awards, Office of the welfare promotion commission for teachers and
educational personnel

9. Lecturer

- Medicinal Herbs and Thai Traditional Pharmacy
- Phytochemistry

10. Specialty

Applied Thai traditional medicine, Quality control of traditional medicine, Extract and isolation of chemical compound from medicinal plants

11. Publication

- 1) **Nualkaew S.** Comparison of anthraquinone content and zymogram patterns of isozymes in *Cassia* species. MS thesis, Mahidol Univ, 1999.
- 2) Gritsanapan W, **Nualkaew S.** Variation of Anthraquinone content in *Cassia surattensis*. Mahidol University J Pharm Sci 28(1-4), 2001, 28-34
- 3) **Nualkaew S**, Gritsanapan W, Petereit F, Nahrstedt A. New fatty acid esters originate during storage by the interaction of components in Prasapalai, a Thai traditional medicine. *Planta Med* 70; 2004:1243-6
- 4) **Nualkaew S.** Phytochemical and pharmacological studies of a Thai traditional preparation : Prasapalai. Ph.D thesis, Mahidol Univ, 2004.
- 5) **Nualkaew S**, Rattanamanee K, Thongpraditchote S, Wongkrajang S. Anti-inflammatory and Analgesic Activities of *Memecylon edule* Roxb. *Planta Med* 73;2007:827
- 6) **Nualkaew S**, Rattanamanee K, Thongpraditchote S, Wongkrajang S, Nahrstedt A. Anti-inflammatory, Analgesic and Wound Healing Activities of the Leaves of *Memecylon edule* Roxb. *J Ethnopharmacol* 121;2009: 278-281.
- 7) Padee P, **Nualkaew S.** Current Information of Medicinal Plants : *Pseuderanthemum palatiferum* (Nees) Radlk 18(1); 2009: 131-138
- 8) Padee P, **Nualkaew S**, Talubmook C, Sakuljaitrong S. Acute Toxicity and Sub-acute Toxicity of *Pseuderanthemum palatiferum* (Nees) Radlk. Leaf Extract. *IJPS* 5(1); 2009: 74-81.
- 9) **Nualkaew S.** Comparison of water preparations by 4 Thai traditional methods; sanding, infusion, Thai decoction, and Chinese decoction. *Maharakham University Journal of Science and Technology* 29(1); 2010.
- 10) Padee P, **Nualkaew S**, Talubmook C, Sakuljaitrong S. Hypoglycemic effect of a leaf extract of *Pseuderanthemum palatiferum* (Nees) Radlk. in normal and streptozotocin-induced diabetic rats. *J Ethnopharmacology* 132; 2010: 491-496,
- 11) **Somsak Nualkaew**, Chongkol Tiangda, Wandee Gritsanapan. Inhibition action on rat uterine muscle contraction in vitro and acute toxicity in rats of the Thai traditional preparation Prasapalai. *Natural Product Research*, 2012: 1-5.
- 12) **Somsak Nualkaew.** Herbal medicine and natural products. Faculty of Pharmacy, Maharakham University. 2007.
- 13) **Somsak Nualkaew.** editor. Guideline for physical diagnosis and treatment by method of applied Thai traditional medicine. Bangkok: D.A. Printing, 2012.

- 13) Arosri prepram et al. (**Somsak Nualkaew**). (Petty Patent) Analgesic Plai gel. 2013.
- 14) Penchom Peungvicha, Yuvadee Wongkrajang, Boontium Kongsaktrakoon, Kanjana Jittiporn, **Somsak Nualkaew**. *In vitro* uterine relaxant activity of Fire Ha Kong Recipe in rats. *JAASP* 2014; 3:299-305
- 15) Adisorn Kongkum, Wanida Caichompoo, **Somsak Nualkaew**. Amount of Phorbol-12-myristate-13-acetate (PMA) in *Croton tiglium* L. Seed Before and After Treatment by Method of Thai Traditional Medicine. *Maharakham University Journal of Science and Technology*, 33(1); 2557: 19-25.
- 16) Sitthichai Iamsaard, Supatcharee Arun, Jaturon Burawat, Wannisa Sukhorum, Jintanaporn Wattanathorn, **Somsak Nualkaew**, Bungorn Sripanidkulchai. Phenolic contents and antioxidant capacities of Thai-Makham Pom (*Phyllanthus emblica* L.) aqueous extracts. *J Zhejiang Univ-Sci B (Biomed & Biotechnol)* 15(4); 2014:405-408
- 17) Ronnchai Poowunna, Natsajee Nualkaew, **Somsak Nualkaew**. Standardization of Thai Traditional Medicine Method for Treatment of *Garcinia hanburuyi* Hook.f Resins. *IJPS* 10(2); 2014: 124-135.
- 18) Pawitra Pulbutr, Achida Jaruchotikamol, Benjamart Cushnie, Sakulrat Rattanakiat and **Somsak Nualkaew**. Anti-lypolytic, α -amylase inhibitory and antioxidant activities of *Pseuderanthemum palatiferum* (Nees) Radlk. Leaf ethanolic extract. *J Med Plants Res* 8(28); 2014: 967-974.
- 19) **Somsak Nualkaew** et al. (Petty Patent) Formulation and extraction of Prasaplai preparation, 2014.
- 20) Pornarong Intarakasem, **Somsak Nualkaew**, Tanit Padumanonda. Validation of rutin analysis in Cassava (*Manihot esculenta*) leaves using TLC-densitometer. *IJPS* 10 (supplement); 2015: 160-66.
- 21) **Somsak Nualkaew**, Peerawit Padee and Chusri Talubmook. Hypoglycemic activity in diabetic rats of stigmaterol and sitosterol-3-O- β -D-glucopyranoside isolated from *Pseuderanthemum palatiferum* (Nees) Radlk. Leaf extract. *J Med Plants Res* 9(20); 2015: 629-635.
- 22) Cathaleeya Mekjaruskul, Kreepol Manwiwattanakul, **Somsak Nualkaew**. Formulation of drinking from *Terminalia chebula*, *Terminalia bellerica*, *Phyllanthus emblica* and *Chrysanthemum indicum*. (Petty Patent no. 1403001385), 2015
- 23) Suchada Teekayupan; **Somsak Nualkaew**; Peerawit Padee; Yurane Tree-od; Khanjanapan Suriyakhan; Benjamart Boontosang. Effect of Herbal Mouthwash on the Inhibition of Decayed Teeth and Gingivitis in Primary School Students. *Journal of Health Science* 2015;24:
- 24) Pawitra Pulbutr, **Somsak Nualkaew**, Sakulrat Rattanakiat, Benjamart Cushnie, Achida Jaruchotikamol. Inhibitory actions of *Pseuderanthemum palatiferum* (Nees) Radlk. leaf ethanolic extract and its phytochemicals against carbohydrate-digesting enzymes. *Asian Pacific Journal of Tropical Biomedicine*. 6(2); 2016: 93-99.

- 25) Ronnachai Poowunna, Natsajee Nualkaew, **Somsak Nualkaew**. Cytotoxicity against peripheral blood mononuclear cells of processed and unprocessed gamboges. IJPS 12(3), 2016.
- 26) Iamsaard, Sitthichai, Arun, Supatcharee, Burawat, Jaturon, Sukhorum, Wannisa, Boonruangsri, Porntip, Namking, Malivalaya, Uabundit, Nongnut, **Nualkaew, Somsak**, Sripanidkulchai, Bungorn. Phyllanthus emblica L. Branch Extract Ameliorates Testicular Damage in Valproic Acid-Induced Rats. INTERNATIONAL JOURNAL OF MORPHOLOGY, 33(3); 2015: 1016-1022
- 27) **Somsak Nualkaew**, Suchitra Thongpraditchote, Yuwadee Wongkrajang, Kaoru Umehara & Hiroshi Noguchi. Isolation of a new compound, 2-butanone 4-glucopyranoside 6'-O-gallate and other 8 compounds from the anti-inflammatory leaf extracts of *Memecylon edule* Roxb. Natural Product Research, 2016: 1-9, <http://dx.doi.org/10.1080/14786419.2016.1253074>
- 28) Jaturon Burawat, Nongnut Uabandit, Bungorn Sripanidkulchai, **Somsak Nualkaew**, Sitthichai Iamsaard. Antioxidant capacity and acute testicular toxicity of *Leucaena leucocephala* aqueous shoot tips plus young leaves extracts. Int J Morphol 34(2); 2016: 514-521
- 29) Priprem, Aroonsri, Janpim, Khwanhatai, **Nualkaew, Somsak**, Mahakunakorn, Pramote. Topical Niosome Gel of Zingiber cassumunar Roxb. Extract for Anti-inflammatory Activity Enhanced Skin Permeation and Stability of Compound D. 17(3); 2016: 631-639
- 30) Apichakan Sampannang; Supatcharee Arun; Wannisa Sukhorum; Jaturon Burawat; **Somsak Nualkaew**; Chanwit Maneenin; Bungorn Sripanidkulchai & Sitthichai Iamsaard. Antioxidant and Hypoglycemic Effects of *Momordica cochinchinensis* Spreng. (Gac) Aril Extract on Reproductive Damages in Streptozotocin (STZ)-Induced Hyperglycemia Mice. *Int. J. Morphol.*,35(2):667-675, 2017.
- 31) Chanwit Maneenin; Jaturon Burawat; Naowarat Maneenin; **Somsak Nualkaew**; Supatcharee Arun; Apichakan Sampannang & Sitthichai Iamsaard. Antioxidant capacity of *Momordica charantia* extract and its protective effect on testicular damage in valproic acid-Induced rats. *Int. J. Morphol.*,36(2):447-453, 2018.
- 32) Rattazart Denchai, Rujiluk Rattarom, **Somsak Nualkaew**. Species Identification of Crude Drug Under the Thai Name of "Thian Klaep" and Specification of Malted Barley. IJPS, 2018; 14(3) : 154-164.
- 33) Matorada Wisai, Peeraya Sripong, **Somsak Nualkaew**, Ratreer Sawangjit. Pilot Study on Efficacy and Safety of Prasapalai Extract Capsules for Relieving Acute Pain from Muscle Strain. TJJP, 2019; 11(1): 269-83.
- 34) Supattra Klangprapun, Benjaporn Buranrat, Wanida Caichompoo, **Somsak Nualkaew**, Pharmacognostical and Physicochemical Studies of *Enhalus acoroides* (L.F.) Royle (Rhizome). Pharmacogn J. 2018; 10(6) Suppl: s89-s94
- 35) **Somsak nualkaew**. Thai traditional pharmacy. Khon kaen: Khon kaen University, 2020.

