

เอกสารหรือหนังสือที่เขียนขึ้นเอง

1. ดวงฤดี เชิดวงศ์เจริญสุข, วิมลวรรณ นาคเอี่ยม . เอกสารประกอบการสอน 701201 กายวิภาคศาสตร์. 2540.
2. ดวงฤดี เชิดวงศ์เจริญสุข, วิมลวรรณ นาคเอี่ยม , อาดุลย์ มีพูล, อำนวย ไวยมุกข์. เอกสารประกอบการสอนวิชา กายวิภาคศาสตร์ของมนุษย์. 2541.
3. ดวงฤดี เชิดวงศ์เจริญสุข, วิมลวรรณ นาคเอี่ยม , อำนวย ไวยมุกข์. เอกสารประกอบการสอนวิชา กายวิภาคศาสตร์ของมนุษย์. 2542.
4. ดวงฤดี เชิดวงศ์เจริญสุข, วิมลวรรณ นาคเอี่ยม . เอกสารประกอบการสอนวิชา กายวิภาคศาสตร์ของมนุษย์. 2544.
5. คณาจารย์สาขากายวิภาคศาสตร์. เอกสารประกอบการสอนวิชา กายวิภาคศาสตร์ของมนุษย์. 2552.
6. คณาจารย์สาขากายวิภาคศาสตร์. เอกสารประกอบการสอนวิชา กายวิภาคศาสตร์ของมนุษย์. 2553.

SCHOLARSHIPS

1. University Department Commission Scholarship (UDC), Department of Anatomy, Faculty of Science, Mahidol University, Bangkok, Thailand (1992 -1994).
2. Thai Airways International - ASAIHL Fellowship Scheme, Department of Anatomy, National University of Singapore, Singapore (February 15, 1998 - March 1, 1998).
3. SIA - ASAIHL Fellowship Scheme, National University of Singapore, Singapore (November 25, 1998 - December 21, 1998).
4. Fundação Oriente Scholarship for Doctoral Degree at the Department of Anatomy, Abel Salazar Institute for Biomedical Sciences, University of Porto, Portugal (October 2001 - September 2004).
5. Fundação para a Ciência e a Tecnologia Scholarship for Post-doctoral study at the Department of Anatomy, Abel Salazar Institute for Biomedical Sciences, University of Porto, Portugal (November 2005 - October 2008).
6. Asia Pacific Association of Medical Toxicology scholarship for oral presentation and participation at the 6th Annual Congress of Asia Pacific Association of Medical Toxicology, Bangkok, Thailand (December 12-14, 2007).
7. Bridging the GAP program, Erasmus Mundus External Cooperation Window Programme scholarship for Post-doctoral study at the Centre of Biological

Engineering (CEB), University of Minho, Portugal (September 2010 – February 2011).

RESEARCH GRANTS

1. Research Grant from Faculty of Graduate Studies, Mahidol University: Structure of Pars Distalis of *Rana tigerina* and its Changes During Development and Seasonal Variation.
2. Research Grant from Faculty of Science, Burapha University 2008: The ultrastructural alterations of murine liver and kidneys after instilled with selenium as dimethyl selenide

RESEARCH AWARDS

1. “Professor Sood Sangwichien Award for Outstanding Research Poster Presentation” at the 17th Annual Meeting of the Society of Anatomy of Thailand, Rayong, Thailand (May 2-4, 1994).
2. “Japanese Society of Electron Microscopy Award for Outstanding Research Oral Presentation” at the 53rd Annual Meeting of the Japanese Society of Electron Microscopy, Amagasaki, Japan (May 23, 1997).
3. “Boehringer Ingelheim ESTP Award 2004 for a Thesis in Toxicological Pathology” at the Symposium on Renal Toxicology and Toxicologic Pathology: An Integration of Mechanistic Investigation and Morphologic Evaluation, Lindau, Germany (September 26 – October 1, 2004).

ผลงานวิจัยที่ตีพิมพ์แล้ว

Full Papers

1. Sretarugsa P, Munkhetvit P, Cherdwongcharoensuk D, Sobhon P, Chavadej J, Kruatrachue M, and Kikuyama S. Characterization and localization of immunoreactive growth hormone and prolactin cells in Pars distalis of bullfrog *Rana catesbeiana*. *Thai J Physiol Sc.* 1996; 9:18-34 .
2. Cherdwongcharoensuk D, Cunha EM, Upatham S, Pereira AS, Oliveira MJ, Águas AP. *In vivo* ingestion of heavy metal particles of Se, Hg and W by murine macrophages. A study using scanning electron microscopy coupled with X-ray microanalysis. *Toxicol Ind Health* 2002; 18: 397-403.
3. Cherdwongcharoensuk D, Águas AP, Henrique R, Upatham S, Pereira AS. Toxic effects of selenium inhalation: acute damage of the respiratory system of mice. *Hum Exp Toxicol.* 2003; 22: 551-557.

4. Cherdwongcharoensuk D, Upatham S, Oliveira JC, Pereira AS, Águas AP. Changes in bronchoalveolar lavage cells after intratracheal instillation of dimethyl selenide in mice. *Toxicol Pathol.* 2004; 32: 345-350.
5. Cherdwongcharoensuk D, Upatham S, Pereira AS, Águas AP. Acute pulmonary inflammation induced by lung overloading with selenium particles: leukocyte response and *in situ* detection of selenium at high resolution. *Inhal Toxicol.* 2004; 16: 901-909.
6. Cunha EM, Cherdwongcharoensuk D, Águas AP. Quantification of particles of lethal mercury in mouse viscera: high resolution study of mercury in cells and tissues. *Toxicol Ind Health* 2003; 19: 55-61.
7. Cherdwongcharoensuk D, Henrique R, Upatham S, Pereira AS, Águas AP. Tubular kidney damage and centrilobular liver injury after intratracheal instillation of dimethyl selenide. *Toxicol Pathol.* 2005; 33: 225-229.
8. Cherdwongcharoensuk D, Oliveira MJ, Águas AP. In vivo formation and binding of SeHg complexes to the erythrocyte surface. *Biol Trace Elem Res.* 2010; 136: 197-203.
9. Sittikijyothin W and Cherdwongcharoensuk D. Free radical scavenging activity of seed coat extracts of sweet and sour tamarinds. *Burapha Sci J.* 2011; 16: 47-55.

Poster Presentations

1. Sobhon P, Cherdwongcharoensuk D, Chavadej J, Sretarugsa P, Saitongdee P, Bubpaniroj P, Showpittapornchai U, Wanichanon C, Kruatrachue M, Upatham S. The histology of the anterior pituitary gland of *Rana rugulosa* and its changes during development: Presented at: The 2nd Intercongress Symposium of the Asia and Oceania Society for Comparative Endocrinology; October 26-29, 1993; Chiangmai, Thailand.
2. Cherdwongcharoensuk D, Sobhon P, Sretarugsa P, Chavadej J, Saitongdee P. Ultrastructure and distribution of growth hormone and prolactin cells of *Rana tigerina* during breeding and non-breeding seasons: Presented at: The 17th Annual Meeting of the Society of Anatomy of Thailand; May 2-4, 1994; Rayong, Thailand.
3. Munkhetvit P, Cherdwongcharoensuk D, Sretarugsa P, Sobhon P, Saitongdee P, Chavadej J, Kruatrachue M, Upatham S. Localization of growth hormone and prolactin cells in Pars distalis of *Rana tigerina* and *Rana catesbeiana* by immunoelectron microscopy: Presented at: The 12th Annual Meeting of Electron

Microscopy Society of Thailand; December 14-16, 1994; Suranaree University of Technology, Nakhon Ratchasima, Thailand.

4. Sretarugsa P, Cherdwongcharoensuk D, Sobhon P, Saitongdee P, Munkhetvit P, Prachaney P, Weerachatanukul W, Ratanatham S, and Krutrachue M. Localization of growth hormone and prolactin cells in Pars distalis of *Rana tigerina* and *Rana catesbeiana* by immunocytochemistry and immunoelectron microscopy: Presented at: The 6th Asia-Pacific Conference on Electron Microscopy; July 1-5, 1996; The Chinese University of Hong Kong, Hong Kong.
5. Luo Y, Cherdwongcharoensuk D, Eng-Ang L. Development of microglia and pituicytes in the neurohypophysis of rats. Presented at: The 7th Asia-Pacific Electron Microscopy Conference; June 26-30, 2000; National University of Singapore, Singapore.
6. Nakiem V, Rattanalangkan C, Komputsa Y, Cherdwongcharoensuk D. Comparative structural organization of stem and leaves of *Plumbago Zeylanica Linn.* And *Plumbago indica Linn*: Presented at: The 26th Congress on Science and Technology of Thailand; October 18-20, 2000; Bangkok, Thailand.
7. Pakdeeronachit S, Sretarugsa P, Cherdwongcharoensuk D, Showpittapornchai U, Kikuyama S, Sobhon P. Identification and distribution of growth hormone and prolactin cells in pars distalis of *Rana tigerina*. Presented at: Perspective in Comparative Endocrinology: Unity and Diversity Sorrento, May 26-30, 2001; Napoli, Italy.
8. Cherdwongcharoensuk D, Águas AP, Henrique R, Upatham S, Pereira AS. Inhaled selenium and pathology of respiratory epithelia: Presented at: 5th Iberian and 2nd Iberoamerican Congress on Environmental Contamination and Toxicology; September 22-24, 2003; Porto, Portugal.
9. Cherdwongcharoensuk D, Upatham S, Pereira AS, Águas AP. Leukocyte kinetics in the bronchoalveolar space of mice after intratracheal instillation of selenium: Presented at: Portuguese Society for Immunology, XXIX Annual Meeting; October 9-11, 2003, Porto, Portugal.
10. Cherdwongcharoensuk D, Upatham S, Pereira AS, Águas AP. Cytology of bronchoalveolar space of mice after intratracheal instillation of selenium: Presented at: XXXVIII Annual Meeting of SPMEBC (Portuguese Society for Electron Microscopy and Cell Biology); December 5-7, 2003; Açores, Portugal.

11. Cherdwongcharoensuk D, Águas AP, Henrique R, Upatham S, Pereira AS. Pathology of the murine respiratory epithelia exposed to selenium: Presented at: 11th Meeting on Toxicology (Toxinogenese Naturelle, Toxinogenese Anthropique); December 11-12, 2003; Paris, France.
12. Cherdwongcharoensuk D, Águas AP, Henrique R, Upatham S, Pereira AS. Pathology of the murine respiratory epithelia following selenium instillation: Presented at: 22nd Annual Conference of the Microscopy Society of Thailand; February 2-4, 2005; Chonburi, Thailand.
13. Cherdwongcharoensuk D, Henrique R, Upatham S, Pereira AS, Águas AP. The pathology of kidney and liver caused by instilled dimethyl selenide: Presented at: 9th International Symposium on Metal Ions in Biology and Medicine; May 21-24, 2006; Lisboa, Portugal.
14. Cherdwongcharoensuk D, Upatham S, Pereira AS, Águas AP. Lung changes induced by inhalation of selenium particles in the mouse: Presented at: 10th International Inhalation Symposium Airborne Particulate Matter: Relevance of Particle Components and Size for Health Effects and Risk Assessment; May 31-June 3, 2006; Hannover, Germany.
15. Ferreira PG, Cunha EM, Cherdwongcharoensuk D, Águas AP. Spleen uptake of circulating metal microparticles: Presented at: 23th European Group of Lymphology Congress; May 12-13, 2007; Praque, Czech Republic.
16. Cherdwongcharoensuk D, Cunha EM, Upatham S, Pereira AS, Oliveira MJ, Águas AP. The ingestion of Se, Hg and W particles by murine peritoneal macrophages: Presented at: SETAC Europe 17th Annual Meeting; May 20-24, 2007; Porto, Portugal.
17. Cherdwongcharoensuk D, Águas AP. Pathology of mouse tissues after selenium instillation: Presented at: The 41th IUPAC World Chemistry Congress; August 5-11, 2007; Turin, Italy.
18. Cherdwongcharoensuk D, Nopparat-aparkun J, Pakdeepong A, Yisarakun W, Meepool A. Pathological changes of mouse liver after dimethyl selenide instillation: Presented at: The 35th Congress on Science and Technology of Thailand; October 15-17, 2009; Chonburi, Thailand.
19. Sitikijyothin W and Cherdwongcharoensuk D. Comparative free radical scavenging activity between seed coat extracts of sweet and sour tamarinds: Presented at The 2rd Regional Conference Interdisciplinary on Natural Resources and Materials

Engineering: Sustainable Network in ASEAN through Networking in Natural Resources and Materials; October 25-26, 2010; Langkawi, Malaysia.

20. Cherdwongcharoensuk D, Meepool A. The ultrastructural alteration of murine kidneys caused by selenium as dimethyl selenide instillation: Presented at: The 34th Annual Conference of the Anatomy Association of Thailand; April 27-29, 2011; Krabi, Thailand.

Oral Presentations

1. Cherdwongcharoensuk D, Sobhon P, Chavadej J, Sretarugsa P, Saitongdee P, Bupaniroj P, Showpittapornchai U, Wanichanon C, Kruatrachue M, Upatham S. The Ultrastructure of the anterior pituitary gland of *Rana rugulosa* and its changes during development: Presented at: The 11th Annual Meeting of Electron Microscopy Society of Thailand; December 8-9, 1993; Bangkok, Thailand.
2. Cherdwongcharoensuk D, Sretarugsa P, Sobhon P, Chavadej J. Distribution and ultrastructure of growth hormone and prolactin cells of *Rana catesbeiana* during breeding and non-breeding seasons: Presented at: The 17th Annual Meeting of the Society of Anatomy of Thailand; May 2-4, 1994; Rayong, Thailand.
3. Cherdwongcharoensuk D, Sretarugsa P, Sobhon P, Chavadej J. Localization of growth hormone and prolactin cells in Pars distalis of *Rana tigerina* and *Rana catesbeiana* by Immunocytochemistry and immuno-electron microscopy: Presented at: The 53rd Annual Meeting of the Japanese Society of Electron Microscopy; May 21-23, 1997; Amagasaki, Japan.
4. Cherdwongcharoensuk D, Upatham S, Pereira AS, Águas AP. Pathologic lesions of mouse tissues caused by instilled selenium: Presented at: 6th Annual Congress of Asia Pacific Association of Medical Toxicology; December 12 -14 2007; Bangkok, Thailand.
5. Cherdwongcharoensuk D, Águas AP. Histological changes of mouse tissues after selenium instillation: Presented at: International Courses on Toxicology 2008 “Metabolic Toxicology: From Pathway to Organism”; April 9-11, 2008; University of Coimbra, Portugal.

Proceedings

1. Pakdeeronachit, S., P Sretarugsa, D. Cherdwongchareonsuk, U. Showpittapornchai, S. Kikuyama, Sobhon P. Characterization and localization of immunoreactive growth hormone and prolactin cells in pars distalis of *Rana tigerina*. Perspective in Comparative Endocrinology. 2001; 813-819. Proceeding presented at: The 14th

- International Congress of Comparative Endocrinology, May 26-30, 2001; Napoli, Italy.
2. Cherdwongcharoensuk D, Henrique R, Upatham S, Pereira AS, Águas AP. The pathology of kidney and liver caused by instilled dimethyl selenide. *Metal Ions in Biology and Medicine*. 2006; 9: 396-399. Proceeding presented at: 9th International Symposium on Metal Ions in Biology and Medicine; May 21-24, 2006; Lisboa, Portugal.
 3. Cunha EM, Cherdwongcharoensuk D, Costa-e-Silva A and Águas AP. Mercury detection in rat lymph nodes: Proceeding presented at: 20th International Congress of Lymphology; *Lymphology* 39 (Suppl), 2006.
 4. Cunha EM, Cherdwongcharoensuk D, Oliveira MJ, Águas AP. Intake of mercury and selenium microparticles by phagocytes: comparison between macrophages and neutrophils. 2009: 51-53. Proceeding presented at: 2nd European Congress of Immunology; September 13-16, 2009; Berlin, Germany.
 5. Sitikijyothin W and Cherdwongcharoensuk D. Comparative free radical scavenging activity between seed coat extracts of sweet and sour tamarinds: 2010: 1137-1140. Proceeding presented at The 2nd Regional Conference Interdisciplinary on Natural Resources and Materials Engineering: Sustainable Network in ASEAN through Networking in Natural Resources and Materials; October 25-26, 2010; Langkawi, Malaysia.
 6. Cherdwongcharoensuk D, Meepool A. The ultrastructural alteration of murine kidneys caused by selenium as dimethyl selenide instillation: 2011: Proceeding presented at: The 34th Annual Conference of the Anatomy Association of Thailand; April 27-29, 2011; Krabi, Thailand.

Symposium or workshop participations

1. Monitoring of exposure to genotoxic agents using the in vivo micronucleus assay. November 22-24, 2004; Kasetsart University, Bangkok, Thailand.
2. Gibthai Training Center: In vitro transcription and translation RNA expression technique. November 30 - December 1, 2004; Gibthai company, Bangkok, Thailand.
3. IBMC and INEB workshop: Mechanisms of T cell recognition and activation. November 28, 2005; IBMC, Porto, Portugal.
4. IBMC and INEB and ABBA symposium: Regulation of gene expression. February 17, 2006; IBMC, Porto, Portugal.

5. The 9th International Symposium on Metal Ions in Biology and Medicine short course: Metal ions toxicity and biomedical research. May 21, 2006; Lisboa, Portugal.
6. The 1st Workshop of the European Network for Gastrointestinal Health Research (ENGIHR), Feb 15-16, 2011; European Science Foundation, University of Minho, Braga, Portugal.

ผลงานอื่นๆ ที่ประสงค์ที่จะเผยแพร่ให้ทราบ

1. ผลิตภัณฑ์การสอนเรื่อง การเก็บรักษาไตและหลอดเลือดแดงใหญ่ของมนุษย์ โดยวิธีกำซาบด้วยพลาสติก (Preservation of Human Kidney and Abdominal Aorta by using Plastination Technique) ทุนอุดหนุนการผลิตสื่อการเรียนการสอนประจำปี 2542 คณะวิทยาศาสตร์ มหาวิทยาลัยบูรพา
2. ผลิตภัณฑ์การสอนเรื่อง การเก็บรักษาสมองของมนุษย์ โดยวิธีกำซาบด้วยพลาสติก (Preservation of Human Brain by using Plastination Technique) ทุนอุดหนุนการผลิตสื่อการเรียนการสอนประจำปี 2543 คณะวิทยาศาสตร์ มหาวิทยาลัยบูรพา
3. งานวิจัยในชื่อเรื่อง การศึกษาความหลากหลายทางชีวภาพของพืชสมุนไพรในวงศ์ Plumbaginaceae ทุนอุดหนุนงานวิจัยประจำปี 2543 คณะวิทยาศาสตร์ มหาวิทยาลัยบูรพา
4. โครงการผลิตสื่อการเรียนการสอนเรื่อง การผลิตหุ่นจำลองก้านสมองของมนุษย์ ทุนอุดหนุนการผลิตสื่อการเรียนการสอนประจำปี 2544 คณะวิทยาศาสตร์ มหาวิทยาลัยบูรพา
5. Reviewer of the manuscript: “Inflammatory Cell Mapping of the Pulmonary Interstitium in Idiopathic Interstitial Pneumonia” By: “Edwin Roger Parra, Ronaldo Adib Karialla, Carlos Roberto Ribeiro de Carvalho, Esmeralda Eher” published in Respiration 2007; 74(2): 159-169.
6. Reviewer of the manuscript: “Structural Modifications into Diphenyl Diselenide Molecule Do Not Cause Toxicity in Mice” By: “Lucielli Savegnago, Cristiano R. Jesse, Cristina Wayne Nogueira” submitted for publication in the journal “Environmental Toxicology and Pharmacology”.
7. งานวิจัยในชื่อเรื่อง การศึกษาโครงสร้างอย่างละเอียดที่เปลี่ยนแปลงไปของตับและไตของหนู หลังจากการฉีดสารซิลิเนียมในรูปแบบของไดเมทิล ซิลิไนด์ ทุนอุดหนุนงานวิจัยประจำปี 2551 คณะวิทยาศาสตร์ มหาวิทยาลัยบูรพา
8. Reviewer of the manuscript: “Sex determination by discriminant analysis : an evaluation of the reliability of Patella measurements in Thai population” By: “ศิริวรรณ จีงจรเกียรติ ” submitted for publication in the e-journal “ Veridian E - Journal” July 2010.

งานวิจัยที่สนใจและกำลังทำอยู่ในปัจจุบัน

Selenium (Se) is found in nature as a trace element that is classified in the group VI-A of the periodic table. Se has been extensively employed in a number of modern industrial

processes. Because of this increasing industrial use of Se, more and more of this trace element is getting into the environment; this has enhanced of human exposure to Se. Humans can be exposed to Se having different origins that range from food, water, soil and air. The most frequent route for human pathology caused by Se is inhalation in industrial environments.

The potential toxicity of inhaled Se has only recently been thoroughly considered; this has led USA authorities to consider Se and its compounds as federal hazardous air pollutants since these substances were identified as air contaminants of a number of industrial environments (California ARB, 1997). Furthermore, Se is one of 129 priority pollutants that have been listed (CAS number 7782-49-2) by the Environmental Protection Agency of the USA (Keith and Telliard, 1979). The number of experimental studies devoted to the adverse health effects of inhaled Se is, however, still small. The relative scarcity of published studies on the toxicity of inhaled Se indicates that this area of experimental toxicology needs further research. This is the reason for performing the experiments to understand the toxicity of Se on the respiratory system.

References:

California Air Resources Board (ARB). Toxic air contaminant (TAC) identification program. Lists summaries-ARB/SSD/SES (Selenium compounds). Available at: <http://www.arb.ca.gov/toxics/tac/factshts/selenium.pdf>. Accessed September, 1997.

Keith LH, Telliard WA. Priority pollutants: a perspective view. *Environ Sci Toxicol*. 1979; 13: 416-423.

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