

## Curriculum Vitae

**NIPON CHATTIPAKORN, M.D., Ph.D.**

**รศ. ดร. นพ. นิพนธ์ ฉัตรทิพากร**

Office Address: Cardiac Electrophysiology Research and Training Center (CERT)  
Department of Physiology, Faculty of Medicine  
Chiang Mai University,  
110 Intrawaroros Road,  
Muang District, Chiang Mai 50200  
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Home Address: 251/16 Moo 3, Moobahn Mantana  
Chiangmai-Hangdong Road  
Tambol Bahnwan, Hangdong District  
Chiang Mai 50230  
Thailand

Marital Status Married to Associate Professor Dr. Siriporn  
Chattipakorn and have one child (Kenneth N. Chattipakorn)

### EDUCATION

1992 Doctor of Medicine (M.D.)  
Faculty of Medicine, Chiang Mai University,  
Chiang Mai, Thailand

1994 Graduate Diploma in Clinical Science  
Faculty of Medicine, Chiang Mai University,  
Chiang Mai, Thailand

1998. Ph.D. (Physiology and Biophysics - Cardiac Electrophysiology),  
University of Alabama at Birmingham, Birmingham, Alabama, USA

1998-1999 Cardiac Electrophysiology Post-doctoral Fellow  
Division of Cardiovascular Diseases, Department of Medicine  
University of Alabama at Birmingham, Alabama, USA

## **PROFESSIONAL APPOINTMENT**

2005-Present Director, Cardiac Electrophysiology Research and Training Center, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2005-Present Associate Professor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2003-Present Director, Cardiac Electrophysiology Unit, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

1993-2004 Instructor, Department of Physiology, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2000-2003 Assistant Professor, Division of Cardiovascular Disease, Department of Medicine, University of Alabama at Birmingham, Birmingham, AL, USA

1992-1994 Staff Clinician, Maharaj Nakorn-Chiang Mai Hospital, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

## **HONORS AND AWARDS**

2006 *Gold Elephant Award for Best Research Scientist in Medical Science*, Chiang Mai University, Chiang Mai, Thailand

2006-2009 *TRF Research Scholar*, The Thailand Research Fund, Bangkok, Thailand

2006 *Vejdusit Foundation Research Award*, Vejdusit Foundation, Bangkok, Thailand

2005 *Anandhamahidol Supporting Scholar Award*, Anandhamahidol Foundation, Bangkok, Thailand

2005 *Best Government Service Staff of the Year*, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

2003-2006 *TRF Research Scholar*, The Thailand Research Fund, Bangkok, Thailand

2002 *Winner, ACC/Procter & Gamble Pharmaceuticals Career Development Award in Arrhythmias*, American College of Cardiology (ACC), USA

2001 *Principal Alien of Extraordinary Ability in the Sciences (O-1)*, United States Immigration and Naturalization Services, USA

2000 *Young Investigator Award (Clinical Investigation, Second prize)*, American College of Cardiology (ACC), Anaheim, California, USA

2000 *American Heart Association Beginning Grant-in-Aid Award*, American Heart Association, Southeast Affiliate, USA

2000 *Outstanding Visiting Scholar Award*, University of Alabama at Birmingham, Birmingham, Alabama, USA

1999 *Wyeth-Ayerst Electrophysiology Fellowship Award*, the 10<sup>th</sup> Annual Wyeth-Ayerst Electrophysiology Fellowship Program at *NASPE*, Toronto, Canada  
1999 *Most Outstanding Graduate*, Department of Physiology and Biophysics, University of Alabama at Birmingham, Birmingham, Alabama, USA

1999 *Finalist, Outstanding Scholar Award*, University of Alabama at Birmingham, Birmingham, Alabama, USA

1999 *Nominee, the National CGS/UMI Distinguished Dissertation Award in Biological and Life Sciences*, Council of Graduate Schools, Washington, D.C., USA

1998 *Young Investigator Award (Honorable mention)*, North American Society of Pacing and Electrophysiology (*NASPE*), San Diego, California, USA

1998-1999 *Outstanding Graduate Fellow (Physiology and Biophysics)*, 24<sup>th</sup> Annual Honors Convocation, University of Alabama at Birmingham, Birmingham, Alabama, USA

1998 *Travel Grant Award*, Graduate Student Association-  
University of Alabama at Birmingham, Birmingham, Alabama,  
USA

1998. *Academic Excellence Award*, Center for International Program, University  
of Alabama at Birmingham, Birmingham, Alabama, USA

1998 *Graduate Fellow Research Award*, University of Alabama  
at Birmingham, Birmingham, Alabama , USA

1998 *Academic Excellence Award*, 23<sup>rd</sup> Annual Honors  
Convocation,  
University of Alabama at Birmingham, Birmingham, Alabama,  
USA

1995-1998 *Graduate Research Fellowship Award*, Department of  
Physiology and Biophysics, University of Alabama at  
Birmingham, Birmingham, Alabama, USA

1993 *The Royal Thai Government Scholarship*, Bangkok, Thailand

1991 *Visiting Scholar Award, Nippon Medical School  
Scholarship*, Nippon Medical School, Tokyo, Japan

1989 *Visiting Scholar Award, Fukui Medical School Scholarship*, Fukui, Japan

## **RESEARCH GRANT SUPPORT**

07/2006-06/2009 The Thailand Research Fund (TRF) Grant  
(Methee Vijai). “Effects of sildenafil citrate and the combined  
nitric oxide donor and sildenafil on defibrillation efficacy and the  
arrhythmogenesis of ventricular fibrillation”. (PI)

07/2005-06/2008 The Thailand Research Fund (TRF) Grant  
(Methee Vijai). “Inhibition of cholinesterase activity in circulation  
and hippocampus in vivo following administration of  
*Tabernaemontana divaricata* extract”. (Co-PI)

07/2006-06/2008 The Thailand Research Fund (TRF) Grant.  
“Plasma profiles of MMP-2, MMP-9 and TIMP-1 in Thai patients  
with acute myocardial infarction”. (Co-PI)

10/2007-09/2008 National Research Council of Thailand.  
“Characterization of cardiac electrophysiology and serum iron  
parameters in northern Thai thalassemic patients”. (PI)

01/2006-01/2008 The Thailand Research Fund (TRF) Grant (Senior Research). “Pathophysiologic study and intervention in thalassemia”. (Co-PI)

10/2006-09/2007 National Research Council of Thailand. “Effects of garlic powder and Kaempferia Parviflora on defibrillation efficacy”. (PI)

02/2006-08/2007 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. “Effects of curcuminoid on cardiac autonomic status in high fat-induced insulin resistant rat model”. (Co-PI)

01/2006-06/2007 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. “Relationship between the level of fish oil in cardiac tissue and the cardiac mortality in Thai cadavers”. (PI)

02/2006-07/2007 Faculty of Medicine Endowment Fund, Chiang Mai University, Chiang Mai, Thailand. “Effect of curcuminoid in patients with acute myocardial infarction with mildly impaired systolic function”. (Co-PI)

## **PREVIOUS GRANT SUPPORT**

07/2000-06/2002 American Heart Association, Southeast Affiliate (0060295B). “Three-Dimension Cardiac Mapping of Ventricular Defibrillation”. (PI)

07/2000-06/2003 United States NIH (HL 64184-01A1). “Mechanisms for Maintenance of Ventricular Fibrillation”. (Co-PI)

07/2002-06/2003 ACC/Procter & Gamble Pharmaceuticals Career Development Award in Arrhythmias (PI)

04/2000-03/2004 United States NIH (HL 63267). “Video Imaging of Cardiac Reentry Initiation/Termination”. (Co-PI)

02/2001-11/2004 United States NIH (HL 66256-01). “Ventricular Fibrillation and its Alteration by Pacing”. (Co-PI)

01/2004-06/2005 Faculty of Medicine, Chiang Mai University  
Research Funding. “Langendorf Perfusion Apparatus for Isolated  
Heart Study Using Large Animal Models.” (PI)

09/2004-02/2006 Faculty of Medicine Endowment Fund, Chiang  
Mai University, Chiang Mai, Thailand. “Pharmacological  
Intervention to Improve Defibrillation Efficacy.” (PI)

09/2003-08/2006 The Thailand Research Fund (TRF) Grant  
(Methee Vijai). “Effects of Docosahexaenoic Acid on  
Defibrillation Efficacy”. (PI)

01/2005-06/2006 Faculty of Medicine Endowment Fund, Chiang  
Mai University, Chiang Mai, Thailand. “Effects of garlic extract  
on cardiac electrophysiology”. (Co-PI)

09/2004-02/2006 Faculty of Medicine Endowment Fund, Chiang  
Mai University, Chiang Mai, Thailand. “Herbal Medicine  
Intervention for AD”. (Co-PI)

10/2006-09/2007 Biomedical Engineering Center Program Grant.  
“Relationship between plasma urocortins and left ventricular  
function in acute myocardial infarction patients.” (PI)

10/2006-09/2007 Biomedical Engineering Center Program Grant.  
“Ambulatory 24-hour ECG monitoring for service and teaching in  
biomedical engineering.” (PI)

10/2006-09/2007 Biomedical Engineering Center Program Grant.  
“Relationship between plasma urocortins and left ventricular  
function in heart failure patients.” (Co-PI)

## **PATENTS**

2001 **Chattipakorn N**, KenKnight BH, Ideker RE. *Method and  
Apparatus for Rapidly Predicting Outcome of Arrhythmia  
Therapy*.  
Patent No.6,246,908

## **PROFESSIONAL LICENSE**

1992-Present M.D. (Thailand)

## **ORGANIZATIONS AND PARTICIPATION**

1993-Present Thai Medical Council

1997-Present American Physiological Society

1998-Present American Heart Association, Basic Science Council

1998-Present Cardiac Electrophysiology Society

2001-Present American College of Cardiology

2004-Present Thai Physiological Society

2004-Present The Medical Association of Thailand

## **PROFESSIONAL ACTIVITIES**

Editor-in-Chief *Journal of Physiological and Biomedical Sciences (JPBS)*

Editorial Board *Asian Biomedicine (Research, Reviews and News)*

Critical reviewer of manuscripts for:

*Circulation*

*Journal of the American College of Cardiology*

*Cardiovascular Research*

*Journal of Cardiovascular Electrophysiology*

*American Journal of Physiology: Heart and Circulatory Physiology*

*International Journal of Cardiology*

*Heart Rhythm*

*Acta Pharmacologica Sinica*

*Medical Science Monitor*

*Clinical Autonomic Research*

*Journal of Medical Association of Thailand*

*ScienceAsia*

Moderator *Cardiac Electrophysiology Weekly Luncheon Seminar Series 2004-Present*, Cardiac Electrophysiology Research and Training (CERT) Center, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

Moderator *Weekly Tutorial in Cardiac Electrophysiology*, Cardiac Electrophysiology Research and Training (CERT) Center, Faculty of medicine, Chiang Mai University, Chiang Mai, Thailand

Editor-in-Chief Proceeding to the 1<sup>st</sup> international Neurological and Cardiac Electrophysiology Symposium (NCES)

## **PRESENTATIONS AT INTERNATIONAL MEETINGS**

August 2008 Annual Scientific Sessions, European Society of Cardiology Congress, Munich, Germany

March 2008 72<sup>th</sup> Annual Scientific Sessions, Japanese Circulation Society, Fukuoka, Japan

September 2007 Annual Scientific Sessions, European Society of Cardiology Congress, Vienna, Austria

June 2007 Annual Scientific Sessions, EUROPACE, Lisbon, Portugal

March 2006 70<sup>th</sup> Annual Scientific Sessions, Japanese Circulation Society, Nagoya, Japan

March 2005 54<sup>th</sup> Annual Scientific Sessions, American College of Cardiology (ACC), Orlando, Florida, USA

May 2002 23<sup>rd</sup> North American Society of Pacing and Electrophysiology (NASPE), San Diego, California, USA

March 2002 51<sup>st</sup> Annual Scientific Sessions, American College of Cardiology (ACC), Atlanta, Georgia, USA

May 2001 22<sup>nd</sup> North American Society of Pacing and Electrophysiology (NASPE), Boston, Massachusetts, USA

March 2001 50<sup>th</sup> Annual Scientific Sessions, American College of Cardiology (ACC), Orlando, Florida, USA

November 2000 73<sup>rd</sup> Scientific Session, American Heart Association (AHA), New Orleans, Louisiana, USA

May 2000 21<sup>st</sup> North American Society of Pacing and Electrophysiology (NASPE), Washington, D.C., USA

March 2000 49<sup>th</sup> Annual Scientific Sessions, American College of Cardiology (ACC), Anaheim, California, USA

May 1999 20<sup>th</sup> North American Society of Pacing and Electrophysiology (NASPE), Toronto, Canada



November 1998 71<sup>st</sup> Scientific Session, American Heart Association (AHA), Dallas, Texas, USA

May 1998 19<sup>th</sup> North American Society of Pacing and Electrophysiology (NASPE), San Diego, California, USA

April 1997 Experimental Biology Meeting, New Orleans, Louisiana, USA

March 1997 46<sup>th</sup> Annual Scientific Sessions, American College of Cardiology (ACC), Anaheim, California, USA

May 1996 17<sup>th</sup> North American Society of Pacing and Electrophysiology (NASPE), Seattle, Washington, USA

September 1995 17<sup>th</sup> Annual International Conference of IEEE/EMBS, Montreal, Canada

#### **INVITED LECTURES AT INTERNATIONAL MEETINGS**

March 24, 2008 *Non-invasive Central Blood Pressure Measurement in Clinical Practice*. Regional Academic Conference, New Delhi, India

December 13, 2005 *Electrophysiological study by cardiac tissue mapping*. The US-Thai Symposium on Biomedical Engineering in Thailand, Chulalongkorn University, Bangkok, Thailand.

November 18, 2004 *Biomedical Engineering Impact on Cardiac Electrophysiology and Device Therapy*. The International Symposium on Biomedical Engineering (ISBME 2004), The Rama Garden Hotel, Bangkok, Thailand

March 18, 2004 *Electrophysiologic Mechanism of Ventricular Defibrillation: Current Update*. The 1<sup>st</sup> International Neurologic and Cardiac Electrophysiology Symposium (NCES), Chiang Mai, Thailand

June 2003 *Pharmacologic Intervention to Improve Defibrillation Efficacy: A Cardiac Mapping Concept*. Cardiology conference, Division of Cardiology, Angiology and Pneumology, Department of Medicine, Charite' Hospital, University of Berlin, Berlin, Germany

July 2001 *Update On Defibrillation Mechanisms*. CRML/Guidant Ventricular Arrhythmia Management Research Meeting,

University of Alabama at Birmingham, Birmingham, Alabama, USA

May 2001 *Three-Dimension Cardiac Mapping Of Ventricular Defibrillation*. Physiology seminar series, Department of Physiology and Biophysics, University of Alabama at Birmingham, Birmingham, Alabama, USA

April 2001 *Origin Of The Earliest Activation After VF Induction By Upper Limit Of Vulnerability Shocks: Insight From 3-D Cardiac Mapping*. Division of Cardiovascular Disease Annual Research Meeting, University of Alabama at Birmingham, Birmingham, Alabama, USA

December 2000 *Cardiac Mapping of Ventricular Defibrillation*. Cardiology conference, Division of Cardiology, Angiology and Pneumology, Department of Medicine, Charite' Hospital, University of Berlin, Berlin, Germany

October 2000 *Optical Mapping Of Defibrillation*. CRML/Guidant Ventricular Arrhythmia Management Research Meeting, University of Alabama at Birmingham, Birmingham, Alabama, USA

October 1998 *Ventricular Fibrillation Induction By The Upper Limit Of Vulnerability Shocks*. Division of Cardiovascular Disease Annual Meeting, University of Alabama at Birmingham, Birmingham, Alabama, USA

April 1998 *Influence Of Postshock Epicardial Activation Patterns On The Initiation Of Ventricular Fibrillation By Shocks Near The Upper Limit Of Vulnerability*. Defibrillation Workshop, University of Alabama at Birmingham, Birmingham, Alabama, USA

May 1997 *The Isoelectric Window After Defibrillation Shocks: Is It Truly Electrically Quiescent?* Workshop on Applied Electrophysiology, Duke University, Durham, North Carolina, USA

April 1996 *Pure Crystalloid Perfusate: A Possible Viable Alternative In Langendorf-Style Perfused Swine Heart*. Defibrillation Workshop, University of Alabama at Birmingham, Birmingham, Alabama, USA

## INVITED LECTURES AT NATIONAL AND REGIONAL MEETINGS

April 18, 2008 *Impact of Central Blood Pressure on Hypertension Therapy*. Vachira Phuket Hospital, Phuket, Thailand

March 7, 2008 *Angiotensin II Effects on Cardiac Physiology and Electrophysiology*. The First Thailand Renin-Angiotensin-Aldosterone Forum, Shangri-La Hotel, Chiang Mai, Thailand

September 10, 2007 *Literature Review Concept*. Workshop on Scientific Manuscript Writing, Faculty of Dentistry, Chiang Mai University, Chiang Mai, Thailand.

September 5, 2007 *Types of Scientific Publication and Their Significance*. The Scientific Manuscript Writing Workshop, Faculty of Pharmacy, Chiang Mai University, Chiang Mai, Thailand.

August 17, 2007 *Effective Central Blood Pressure Lowering Goal in Hypertension: An Evidence-Based Medicine*. The Scientific Meeting at the Faculty of Medicine, Prince Songkla University, Songkla, Thailand.

July 20, 2007 *Central Arterial Pressure: New Frontier, New technology, and New Interpretation*. A Cellular and Molecular Biology Seminar Series, Chiang Mai University, Chiang Mai, Thailand

March 23, 2007 *Roles of device therapy and fish oil in the prevention of arrhythmic death*. The 29<sup>th</sup> Pharmacological and Therapeutic Society of Thailand Meeting, Bangkok, Thailand

May 4, 2006 *Cardiac Mapping of Sudden Death and Defibrillation*. The 35<sup>th</sup> annual meeting of the Physiological Society of Thailand, Chiang Mai, Thailand

November 8, 2005 *Heart Rate Variability Study in Thalassemia*. The annual update in thalassemia meeting. Institute of Science and Technology for Research and Development, Mahidol university, Bangkok, Thailand

August 19, 2005 *External Defibrillation Concept*. The 18<sup>th</sup> Annual Meeting of the Thai Association for Medical Instrumentation. Bangkok, Thailand

August 17, 2005 *Device Therapy in Sudden Cardiac Death: A Medical Grand Round*, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

August 03, 2005 *Anti-arrhythmic Effects of Fish Oil in Sudden Cardiac Death Prevention*. Faculty of Associated Medical Technology, Chiang Mai University, Chiang Mai, Thailand

July 15, 2005 *Is Fish Oil Truly Anti-arrhythmic?* A Cellular and Molecular Biology Seminar Series, Chiang Mai University, Chiang Mai, Thailand

February 2, 2005 *Electrocardiogram and Cardiac Arrhythmia*, Faculty of Veterinary Medicine, Chiang Mai University, Chiang Mai, Thailand

January 20, 2005 *Cardiac Electrophysiology Research: Impact on Device Therapy*. Institute of Science and Technology for Research and Development, Mahidol University, Bangkok, Thailand

November 24, 2004 *Current Update on External Defibrillation*. A Luncheon Symposium at the Annual Academic Meeting 2004 at the Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

September 23, 2004 *Biomedical Engineering in Cardiac Electrophysiology*, National Institute of Metrology, Ministry of Science and Technology, Bangkok, Thailand

September 23, 2004 *Current Update on ICD Defibrillation*, Cardiology Conference, Pramongkutklo Medical Center, Bangkok, Thailand

July 5, 2004 *Hot Issues in Medicine: Biomedical Engineering in Cardiac Electrophysiology*. Annual Meeting at the Faculty of Medicine, Thammasat University 2004, Bangkok, Thailand.

June 11, 2004 *The Day After Tomorrow for Ventricular Fibrillation*. A Cellular and Molecular Biology Seminar Series, Chiang Mai University, Chiang Mai, Thailand

March 19, 2004 *Pharmacological Intervention to Improve Defibrillation Efficacy*. The 26<sup>th</sup> Pharmacological and Therapeutic Society of Thailand Meeting, Chiang Mai, Thailand.

February 2003 *Defibrillation for Sudden Cardiac Death: From Cell to Bedside*. A Cellular and Molecular Biology Seminar Series, Chiang Mai University, Chiang Mai, Thailand

July 2002 *Defibrillation Failure After Shocks Delivered By An Implantable Cardioverter Defibrillator: Insight To Improve Defibrillation Efficacy*. Special Physiology Seminar, Faculty of Medicine, Chiang Mai University, Chiang Mai, Thailand

January 1999 *Basic Mechanism of Ventricular Defibrillation: What Is Of Real Clinical Importance?* Cardiology Conference, Pramongkutklo Medical Center, Bangkok, Thailand

## **ACADEMIC ACTIVITIES**

### **Graduate Student's Dissertation Committees**

1. Philip L. Johnson, M.S.B.E. Member of Ph.D. degree committee (1998 – 04/2001)  
Topic: An intelligent multi-channel stimulator for investigation of cardiac electrophysiological therapies (Biomedical Engineering)
2. Isabelle Banville, M.S.B.E. Member of Ph.D. degree committee (1998-03/2002)  
Topic: Electrical restitution in isolated hearts (Biomedical Engineering)
3. Frederick G. Evans, M.S.B.E. Member of Ph.D. degree committee (1999-10/2002)  
Topic: Optical mapping of defibrillation in isolated hearts (Biomedical Engineering)
4. Anucha Pongpanparadorn, B.S. Member of the Master degree committee (2004-03/2006)  
Topic: Effects of TD on neuronal excitability in rats (Physiology)
5. Sivaporn Sivasinprasasn, B.S. Major advisor of the Master degree committee (2007-Present)  
Topic: Urocortins in patients with acute myocardial infarction (Physiology)
6. Sirirat Surinkaew, B.S. Major advisor of the PhD degree committee (2008-Present, RGJ fellowship)  
Topic: TBA
7. Punate Weerateerangkul, M.Sc. Major advisor of the PhD degree committee (2008-Present, MUA scholarship-a sandwich program)  
Topic: TBA

### **Research Advisor for Cardiology Fellows**

1. Wannakorn Pattarajaree, MD. Main research advisor for cardiology fellow (2005-2006)  
Topic: Effects of curcuminoid extracts on ventricular remodeling in acute myocardial infarction patients. (First Prize Winner in National Cardiology Fellow Research Competition 2005.)
2. Supadej Sudjaritruk, MD. Main research advisor for cardiology fellow (2006-2007)  
Topic: Plasma profiles of matrix metalloproteinases-2 and -9 in acute myocardial infarction patients. (First Prize Winner in National Cardiology Fellow Research Competition 2006.)
3. Phitsanu Boonprasert, MD. Main research advisor for cardiology fellow (2007-2008)  
Topic: Plasma profiles of urocortin in heart failure patients. (Second Prize Winner in National Cardiology Fellow Research Competition 2007.)
4. Vichai Senthong, MD. Main research advisor for cardiology fellow (2008-2009)  
Topic: Effects of beta blockers on clinical outcomes and central aortic pressure in patients with chronic heart failure. (First Prize Winner in National Cardiology Fellow Research Competition 2008.)

### **Advisor for Interns**

1. Krekwit Shinlapawitayatorn, M.D. (2004-2006)
2. Tanat Incharoen, M.D. (2005-2007)
3. Chamnan Junnuan, M.D. (2005-2006)
4. Natnicha Kanlop, M.D. (2006-2007)
5. Wasarut Rutjanaprom, M.D. (2007-Present)
6. Piyapong Khumrin, M.D. (2008-Present)

### **Advisor for Post-Graduate Research Assistants**

1. Phatcharin Luangcharoenkul, B.S. (Medical Technology) (2006-2007)
2. Petnoi Petsophonsakul, B.S. (Medical Technology) (2007-2008)

### **Selected Special Academic Appointments**

**06/2003- 05/2007 Medical Curriculum  
Advisory Committee, Faculty of Medicine,  
Chiang Mai University, Chiang Mai, Thailand**

03/2003- 04/2006 Research Advisory Committee, Faculty  
of Medicine, Chiang Mai University, Chiang Mai,  
Thailand

2002- Present Graduate School Faculty, Chiang Mai  
University, Chiang Mai, Thailand

2004- Present Chair, Cardiovascular section for Medical  
Curriculum, Faculty of Medicine, Chiang Mai University,  
Chiang Mai, Thailand

2006-Present Founding Committee of Biomedical  
Engineering Center program, Chiang Mai University,  
Thailand

**PEER REVIEWED ARTICLES**

1. Lekawanvijit S, **Chattipakorn N**. Iron overload thalassemic cardiomyopathy: Iron status assessment and mechanisms of mechanical and electrical disturbance due to iron toxicity. *Can J Cardiol* 2008 (in press). (Impact Factor = 1.134)
2. Kanlop N, Shinlapawittayatorn K, Sungnoon R, Chattipakorn S, Lailerd N, **Chattipakorn N**. Effects of sildenafil citrate on the inducibility of ventricular fibrillation and upper limit of vulnerability in swine. *Med Sci Monit* 2008 (in press). (Impact Factor = 1.607)
3. Boonprasert P, Lailerd N, **Chattipakorn N**. Urocortins in heart failure and ischemic heart disease. *Int J Cardiol* 2008;127(3):307-312. (Impact Factor = 2.878)
4. Pratchayasakul W, Pongchaidecha A, **Chattipakorn N**, Chattipakorn S. Ethnobotany and ethnopharmacology of *Tabernaemontana divaricata*. *Indian J Med Res* 2008;127(4):317-335. (Impact Factor = 1.670)

5. Sungnoon R, Kanlop N, Chattipakorn S, Tawan R, **Chattipakorn N**. Effects of garlic on the induction of ventricular fibrillation. *Nutrition* 2008;24:711-716. (Impact Factor = 2.229)
6. Sungnoon R, Shinlapawittayatorn K, Chattipakorn SC, **Chattipakorn N**. Effects of garlic on defibrillation efficacy. *Int J Cardiol* 2008;126:143-144. (Impact Factor = 2.878)
7. **Chattipakorn N**, Shinlapawittayaorn K, Sungnoon R, Chattipakorn S. Fish oil does not improve defibrillation efficacy. *Int J Cardiol* 2007;122:85-86. (Impact Factor = 2.878)
8. Incharoen T, Thephinlap C, Srichairatanakool S, Chattipakorn S, Fucharoen S, Vadolas J, **Chattipakorn N**. Heart rate variability in  $\beta$ -thalassemic mice. *Int J Cardiol* 2007;121:203-204. (Impact Factor = 2.878)
9. Phattarajaree W, Promintikul A, **Chattipakorn N**. Matrix metalloproteinases and myocardial infarction. *Can J Cardiol* 2007;23:727-733. (Impact Factor = 1.134)
10. **Chattipakorn N**, Incharoen T, Kanlop N, Chattipakorn S. Heart rate variability in myocardial infarction and heart failure. *Int J Cardiol* 2007;120:289-296. (Impact Factor = 2.878)
11. Chattipakorn S, Pongpanparadorn A, Pratchayasakul W, Pongchaidecha A, Ingkaninan K, **Chattipakorn N**. Tabernaemontana divaricata extract inhibits neuronal acetylcholinesterase activity in rats. *J Ethnopharmacol* 2007;110:61-68. (Impact Factor = 2.049)
12. Shinlapawittayatorn K, Chattipakorn S, Sungnoon R, **Chattipakorn N**. Effects of combined sildenafil-nitric oxide donor on defibrillation efficacy. *J Med Assoc Thai* 2007;90:2143-2149. (Impact Factor = N/A)
13. Tohno Y, Mahakkanukrauh P, Tohno S, **Chattipakorn N**, Kumai T, Sinthubua A, Azuma C, Ongkana N, Fukushima S, Araki T, Minami T. Decreases of calcium, phosphorus, zinc and iron in the aortic and pulmonary valves of pig with development. *Chiang Mai University Journal of Natural Sciences* 2007;6:87-100. (Impact Factor = N/A)
14. **Chattipakorn N**, Shinlapawittayatorn K, Sungnoon R, Chattipakorn SC. Effects of n-3 polyunsaturated fatty acid on upper limit of vulnerability shocks. *Int J Cardiol* 2006;107:299-302. (Impact Factor = 2.878)
15. Shinlapawittayatorn K, Sungnoon R, Chattipakorn S, **Chattipakorn N**. Effects of sildenafil citrate on defibrillation efficacy. *J Cardiovasc Electrophysiol* 2006;17:292-295. (Impact Factor = 3.475)



16. Promintikul A, **Chattipakorn N**. Roles of ryanodine receptor on heart failure and sudden cardiac death. *Int J Cardiol* 2006;112:142-152. (Impact Factor = 2.878)
17. Gray RA, **Chattipakorn N**. Termination of spiral waves during cardiac fibrillation via shock-induced phase resetting. *Proc Natl Acad Sci U S A* 2005;102(13):4672-4677. (Impact Factor = 9.64)
18. Wongcharoen W, **Chattipakorn N**. Antiarrhythmic effects of n-3 polyunsaturated fatty acids. *Asia Pac J Clin Nutr* 2005;14(4):307-312. (Impact Factor = 1.18)
19. Shinlapawittayatorn K, Chattipakorn SC, **Chattipakorn N**. Effects of sildenafil citrate on the cardiovascular system. *Braz J Med Biol Res* 2005;38(9):1303-1311. (Impact Factor = 1.15)
20. Chattipakorn SC, **Chattipakorn N**, Light AR, Narhi M, Maixner W. Comparison of Fos expression within the Ferret's spinal trigeminal nuclear complex evoked by electrical or noxious-thermal pulpal stimulation. *J Pain* 2005;6(9):569-580. (Impact Factor = 3.578)
21. Sungnoon R, **Chattipakorn N**. Anti-arrhythmic effects of herbal medicine. *Indian Heart J* 2005;57:109-113. (Impact Factor = N/A)
22. **Chattipakorn N**, Shinlapawittayatorn K, Chattipakorn S. Electrophysiological Mechanisms of Ventricular Fibrillation Induction. *Indian Pacing Electrophysiol J* 2005;5(1):43-50. (Impact Factor = N/A)
23. **Chattipakorn N**, Banville I, Gray RA, Ideker RE. Effects of shock strengths on ventricular defibrillation failure. *Cardiovasc Res* 2004;61;39-44. (Impact Factor = 5.826)
24. Banville I, **Chattipakorn N**, Gray RA. Restitution dynamics during pacing and arrhythmias in isolated pig hearts. *J Cardiovasc Electrophysiol* 2004;15;455-463. (Impact Factor = 3.475)
25. Chattipakorn S, **Chattipakorn N**. Electrophysiological concept of ventricular defibrillation mechanism. *J Med Assoc Thai* 2004;87;1394-1401. (Impact Factor = N/A)
26. Chattipakorn SC, Ong-Chai S, Kongthaweeert P, **Chattipakorn N**. Hyaluronan profiles in human saliva among different inflammatory levels of periodontal condition. *J Dent Assoc Thai* 2004;54;170-175. (Impact Factor = N/A)

27. **Chattipakorn N**, Fotuhi PC, Chattipakorn SC, Ideker RE. Three-dimensional mapping of earliest activation after near-threshold ventricular defibrillation shocks. *J Cardiovasc Electrophysiol* 2003;14(1);65-69. (Impact Factor = 3.475)
28. **Chattipakorn N**, Ideker RE. Delayed afterdepolarization inhibitor: A potential pharmacological intervention to improve defibrillation efficacy. *J Cardiovasc Electrophysiol* 2003;14(1);72-75. (Impact Factor = 3.475)
29. Qin H, Kay MW, **Chattipakorn N**, Redden DT, Ideker RE, Rogers JM. Effects of heart isolation, voltage-sensitive dye, and electromechanical uncoupling agents on ventricular fibrillation. *Am J Physiol Heart Circ Physiol* 2003;284(5);H1818-1826. (Impact Factor = 3.724)
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## ประวัติอย่างสั้น

### รองศาสตราจารย์ ดร.น.พ. นิพนธ์ ภัทรทิพากร

- สำเร็จการศึกษา แพทยศาสตรบัณฑิต จาก คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่ เมื่อปี พ.ศ. 2535 และปริญญาเอก สาขา Physiology & Biophysics จาก University of Alabama at Birmingham ประเทศสหรัฐอเมริกาในปี พ.ศ. 2541
- ได้รับทุน Post-doctoral Cardiology Fellow ในสาขา Cardiac Electrophysiology โดยทำการศึกษาถึงความผิดปกติของคลื่นไฟฟ้าหัวใจ ในกรณีหัวใจห้องล่างเต้นผิดจังหวะชนิดที่เรียกว่า Ventricular Fibrillation ที่แผนกโรคหัวใจและหลอดเลือด University of Alabama at Birmingham ในช่วงระหว่าง พ.ศ. 2541-2542 และต่อมาได้รับเชิญให้ดำรงตำแหน่งผู้ช่วยศาสตราจารย์ ที่แผนกโรคหัวใจและหลอดเลือดจนกระทั่งถึงปี พ.ศ. 2545 จึงได้เดินทางกลับมาเป็นอาจารย์ที่คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่
- ได้รับรางวัลระดับนานาชาติจำนวนมากในสาขาโรคทางไฟฟ้าของหัวใจ ตัวอย่างเช่น
  - รางวัล Procter & Gamble Pharmaceuticals Career Development Award จาก American College of Cardiology, USA
  - รางวัล Young Investigator Award จาก American College of Cardiology, USA
  - รางวัล American Heart Association Beginning Grant-in-Aid จาก American Heart Association, USA
  - รางวัล Young Investigator Award จาก North American Society of Pacing and Electrophysiology, USA
- เป็น *Principal Alien of Extraordinary Ability in the Sciences* ของ United States Immigration and Naturalization Services, USA
- ได้รับรางวัล“ช่างทองคำ” จากมหาวิทยาลัยเชียงใหม่เป็นคนแรกในฐานะ นักวิจัยดีเด่น ในสาขาวิทยาศาสตร์สุขภาพ ในปี พ.ศ. 2549
- มีผลงานที่ได้รับการจดสิทธิบัตร อาทิ วิธีการและเครื่องมือที่สามารถพยากรณ์ผลลัพธ์ ของการรักษาภาวะหัวใจเต้นผิดจังหวะได้อย่างรวดเร็ว และ วิธีการรักษาพัฒนาการภาวะหัวใจเต้นผิดจังหวะด้วยการช็อคด้วยกระแสไฟฟ้า
- ได้รับเชิญให้ไปนำเสนอผลงานทางวิชาการ และ เป็นวิทยากรรับเชิญจากทั้งในและต่างประเทศ และได้รับเกียรติให้เป็นผู้เขียนบทบรรณาธิการ รวมทั้งการตรวจและวิจารณ์บทความก่อนที่จะตีพิมพ์ในวารสารชั้นนำทางโรคหัวใจและหลอดเลือด อาทิเช่น Circulation, Journal of Cardiovascular Electrophysiology, Cardiovascular Research และ Heart Rhythm เป็นต้น
- มีผลงานตีพิมพ์งานวิจัยเป็นจำนวนมากทั้งในรูปแบบของ Original article, Editorial Comment และ Peer-Review Abstracts กว่า 100 เรื่อง และเขียน Book chapter ให้แก่ International Textbook ทางโรคหัวใจมาแล้ว 4 เล่ม นอกจากนี้ยังเป็น Co-PI สำหรับ NIH Grant ถึง 5 grants
- ปัจจุบันดำรงตำแหน่ง ประธานกรรมการบริหาร ศูนย์วิจัยและฝึกอบรมสาขาโรคทางไฟฟ้าของหัวใจ (Cardiac Electrophysiology Research and Training Center) คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่ และ หัวหน้าหน่วย Cardiac Electrophysiology Unit ภาควิชาสรีรวิทยา คณะแพทยศาสตร์ มหาวิทยาลัยเชียงใหม่