# CURRICULUM VITAE


**Name:** SUTHAT FUCHAROEN, M.D.
**Date of Birth:** August 9, 1949
**Place of Birth:** Chiengmai, Thailand
**Citizenship:** Thai
**Marital Status:** Married, 3 sons
**Permanent Home Address:** 269/58 Charunsanitwong 35,
Bangkoknoi, Bangkok 10700, Thailand
Tel: (662) 418-4566
Fax: (662) 412-2624
**Office Address:** Thalassemia Research Center
Institute of Science and Technology for
Research and Development,
Mahidol University, Salaya Campus
252/25 Phuttamonthon 4 Rd.
Phutthamonthon,
Nakornphathom 73170, Thailand
Tel: (662) 889-2557 (-8)
Telex: UNINIAHI TH 84770
Fax: (662) 889-2559


**Education:**

1971: B.Sc. (Medical Science)
Chiengmai University, Thailand
1973: M.D.
Chiengmai University, Thailand
1975-6: Intern,
Westsuburban Hospital, Oak Park, Illinois, USA.
1977: Diploma in Thai Board of Internal Medicine
1983: Diploma in Thai Board of Hematology

**Positions:**

1979-1980: Instructor
1981-1983: Assistant Professor
1983-1989: Associate Professor
1990: Professor

**Professional Societies:**

1982: The Society of Hematology of Thailand
1982: The Genetic Society of Thailand
1986: The Royal College of Physicians of Thailand
1988: The Science Society of Thailand
1989: The New York Academy of Sciences
1992: The American Society of Advances in Sciences
1997: Thai Academy of Science and Technology Foundation

1998: American Association for Clinical Chemistry
1999: American society of Hematology
2001: IMBN, Asia-Pacific Division

**Member of Committees and Boards-University, National, International**

1986-1990: Scientific Committee, 12th-16th Conference on Science and Technology of Thailand
1988-1994: Scientific committee, Mahidol Research Grant, Mahidol University
1989: Member of the Executive Committee and Chairman of The Academic Affair, Thalassemia Foundation of Thailand
1992-8: Member of the Research Committee, Faculty of Medicine Siriraj Hospital, Mahidol University

1992: Member of the Committee, Mahidol Award, Mahidol University
1994: Member of the Editorial Board, HEMOGLOBIN
1996: Member of the Editorial Board, Journal of the Medical Association of Thailand

**Scholarship, Fellowship, Research Grant:**

1984-1987: NIH Research Grant (co-investigator)
1985-1986: EEC (CEC) Research Grant (STD1)
1986: JSPS-NRCT Research Fellow, Kyoto University (Professor Takashi Murachi)
1987-1990: Monbusho Research Grant
1988-1993: JSPS-NRCT Research Grant
1989-1992: NIH Research Grant (co-investigator)
1989-1992: EEC (CEC) Research Grant (STD2)
1993-1995: EEC (CEC) Research Grant (STD3)
1994-1998: Prajadhipok-Rambhai Barni Foundation
1997-2000: IAEA
1997-2000: Senior Research Fellow Grant, National Science and Technology Development Agency, Thailand
2002: Outstanding Scientist Awards, Foundation for the Promotion of Science and Technology Under the Patronage of His Majesty The King of Thailand
2002-2005: Senior Research Scholar, Thailand Research Fund, Thailand
2006: Golden Silk Award, Guangxi Medical University
2002-2006: Genomewide search for disease modifier genes in thalassemia (NIH Research Grant)

2004-2006: Molecular mechanism of anemia in thalassemia mice and new therapeutic intervention (Mahidol University Research Grant)
2005-2008: Apoptosis (Mahidol University Research Grant)
2005-2008: Pathophysiologic changes and therapeutic intervention in thalassemia (Senior Research Scholar, Thailand Research Fund, Thailand)
2005-2010: Genetic modifier genes in beta thalassemia (BIOTEC, National Science and Technology Development Agency, Thailand)

**Publications (selected publications from more than 350 articles)**


1. Fucharoen S, Winichagoon P, Thonglairuam V, Siriboon W, Siritanaratkul N, Kanokpongsakdi S, Vantanasiri C. Prenatal diagnosis of thalassemia and hemoglobinopathies in Thailand: experience from 100 pregnancies. Southeast Asian J Trop Med Public Health 1991; 22: 16-29.
2. Winichagoon P, Fucharoen S, Wilairat P, Chihara K, Fukumaki Y, Wasi P. Identification of five rare mutations including a novel frameshift mutation causing $\beta^o$-thalassemia in Thai patients with $\beta^o$-thalassemia/hemoglobin E disease. Biochim Biophys Acta 1992; 1139: 280-6.
3. Fucharoen S, Winichagoon P. Thalassemia in Southeast Asia: problems and strategy for prevention and control. Southeast Asian J Trop Med Public Health. 1992; 23: 647-55.
4. Winichagoon P, Fucharoen S, Kanokpongsakdi S, Fukumaki Y. Detection of $\alpha$-thalassemia-1 (Southeast Asian type) and its application for prenatal diagnosis. Clin Genet 1995; 47: 318-20.
5. Fucharoen S, Siritanaratkul N, Winichagoon P, Chowthaworn J, Siriboon W, Muangsup W, Chaicharoen S, Poolsub N, Chindavijak B, Pootrakul P, Piankijagum A, Schechter AN. and Rodgers GP. Hydroxyurea increases hemoglobin F levels and improves the effectiveness of erythropoiesis in β-thalassemia/hemoglobin E disease. Blood 1996; 87: 887-92.
6. Fucharoen S, Winichagoon P, Wisedpanichkij R, Sae-Ngow B, Sriphanich R, Oncoung W, Muangsapaya W, Chowthaworn J, Kanokpongsakdi S, Bunyaratvej A, Piankijagum A, Dewaele C. Prenatal and postnatal diagnoses of thalassemias and hemoglobinopathies by HPLC. Clinical Chemistry 1998; 44: 740-8.
7. Fucharoen S, Winichagoon P, Siritanaratkul N, Chowthaworn J, Pootrakul P. Alpha and beta-thalassemia in Thailand. Ann NY Acad Sci 1998; 850: 412-4.
8. Winichagoon P, Saechan V, Sripanich R, Nopparatana C, Kanokpongsakdi S, Maggio A, Fucharoen S. Prenatal diagnosis of β-thalassaemia by reverse dot-blot hybridization. Prenat Diagn 1999; 19: 428-35.
*9. Fucharoen S, Winichagoon P. Clinical and hematologic aspects of hemoglobin E β-thalassemia. Current Opinion in Hematology 2000; 7: 106-112.
10. Lacerra G, Sierakowska H, Carestia C, Fucharoen S, Summerton J, Weller D, Kole R. Restoration of hemoglobin A synthesis in erythroid cells from peripheral blood of thalassemic patients. PNAS 2000; 97: 9591-6.

11. Fucharoen S, Ketvichit P, Pootrakul P, Siritanaratkul N, Piankijagum A, Wasi P. Clinical manifestation of β-thalassemia/hemoglobin E disease. J Pediatric Hematology/Oncology 2000; 6: 552-7.
12. Winichagoon P, Fucharoen S, Chen P, Wasi P. Genetic factors affecting clinical severity in beta-thalassemia syndromes. J Pediatr Hematol Oncol 2000; 22: 573-80.
13. Fucharoen S, Winichagoon P. Molecular epidemiology of α-thalassemia. J Clin Genetics and Tribal Research 2000; 5: 1-15.
14. Imai K, Tientadakul P, Opartkiattikul N, Luenee P, Winichagoon P, Svasti J, Fucharoen S. Detection of haemoglobin variants and inference of their functional properties using complete oxygen dissociation curve measurements. Br J Haematol 2001; 112: 483-7.
15. Tang D.C., Fucharoen S, Ding I, Rodgers G.p. Rapid differentiation of five common α-thalassemia genotypes by polymerase chain reaction. J Lab Clin Med 2001; 137: 290-5.
16. Aulia D, Timan I.S., Tatsumi N, Funahara Y, Asada Y, Bunyaratvej A, Fucharoen S, kondo T, Kondo H. Field evaluation of WHO hemoglobin color scale in West Java in 2000. Reprinted from Journal of Analytical Bio-Science Vol. 24, No. 2, 2001; 159; 24 : 159-61.
17. Old J, Khan S, Verma I, Fucharoen S, Kleanthous M, Ioannou P, Kotea N, Fisher C, Riazuddin S, Saxena R, Wichagoon P, Kyriacou K, A1-Quobaili F, Khan B. A multi-center study in order to further define the molecular basis of β-thalassemia in Thailand, Pakistan, Kri Lanka, Mauritius, Syria, and India and to develop a simple molecular diagnostic strategy by amplification refractory mutation system-polymerase chain reaction. Hemoglobin 2001; 25: 397-407.
18. Svasti S, Yodsowan B, Sriphanich R, Winichagoon P, Boonkhan P, Suwanban T, Sawangareetrakul P, Srisomsap C, Ketudat-Cairns J, Svasti J, Fucharoen S. Association of Hb Hope [β136(H14)Gry->Asp] and Hb H disease. Hemoglobin 2001; 25: 429-35.
19. Turbpaiboon C, Svasti Sm Sawangareetakul P, Winichagoon P, Srisomsap C, Siritanatatkul N, Fucharoen S, Wilairat P, Svasti J. Hb Siam [α15(A13) Gly(Arg(α1) (GGT->CGT)] is a typical α chain hemoglobinopathy without an α-thalassemic effect. Hemoglobin 2002; 26: 77-81.
20. Sawangareetrakul P, Svasti S, Yodsowon B, Winichagoon P, Srisomsap C, Svasti J, Fucharoen S. Double Heterozygosity for Hb Pyrgos [β83(EF7)Gly→Asp] and Hb E [β 26(B8)Glu→Lys] found in Association with α-Thalassemia. Hemoglobin 2002: 26(2): 191-6.
21. Fucharoen S, Winichagoon P. Thalassemia and abnormal hemoglobin. Int J Hemalogy (Supplement II) 2002; 76: 83-89.
22. Suwanmanee T, Sierakowska H, Lacerra G, Svasti S, Kirby S, Walsh CE., Fucharoen S, Kole R. Restoration of human β-globin gene expression in murine and human IVS2 654 thalassemic erythroid cells by free uptake of antisense oligonucleotides. Mol Pharmacol 2002; 62: 545-53.
23. Svasti S, Hieu TM, Munkongdee T, Winichagoon P, Be TV, Binh TV, Fucharoen S. Molecular analysis of β-thalassemia in South Vietnam. Am J Hematol 2002; 71: 85-8.
24. Winichagoon P, Sriphanich R, Sae-ngow B, Chowthaworn J, Tantisirin P, Kanokpongsakdi S, Fucharoen S, Wasi P. Application of automated HPLC in prenatal diagnosis of thalassemia. Laboratory Hematology 2002; 8: 29-35.

25. Suwanmanee T, Sierakowska H, Fucharoen S, Kole R. Repair of a splicing defect in erythroid cells from patients with β-thalassemia/H bE disorder. Molecular Therapy 2002; 6: 718-26.
26. Jamsai D, Nefedov M, Narayanan K, Orford M, Fucharoen S, Williamson R, Ioannou P A. Insertion of common mutations into the human β-globin locus using GET Recombination and an EcoRi endonuclease counterselection cassette. J Biotechnology 2003; 101: 1-9.
27. Chui D H K, Fucharoen S, Chan V. Hemoglobin H disease: not necessarily a benign disorder. Blood 2003; 101: 791-800.
28. Phumala N, Porasuphatana S, Unchern S, Pootrakul P, Fucharoen S, Chantharaksri U. Hemin: a possible cause of oxidative stress in blood circulation of β-thalassemia/Hemoglobin E disease. Free Radical Research 2003; 37: 129-35.
29. Jamsai D, Orford M, Fucharoen S, Williamson R, Ioannou P A. Insertion of modifications in the β-globin locus using GET Recombination with single-stranded oligonucleotides and denatured PCR fragments. Molecular Biotechnology 2003; 23: 29-36.
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35. Wanachiwanawin W, Luengrojanakul P, Sirangkapracha P, Leowattana W, Fucharoen S. Prevalence and clinical significance of hepatitis C virus infection in Thai patients with thalassemia. Int J Hematol 2003; 78: 374-8.
36. Pattanapanyasat K, Noulsri E, Fucharoen S, Lerdwana S, Lamchiagdhase P, Siritanaratkul N, Webster K H. Flow cytometric quantitation of red blood cell vesicles in thalassemia. Cytometry Part B (Clinical Cytometry) 2004; 57B: 23-31.
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38. Ngiwsara L, Srisomsap C, Winichagoon P, Fucharoen S, Svasti J. Two cases of compound heterozygosity for Hb Hekinan [α27(B8) Glu→Asp (α1)] and α-thalassemia in Thailand. Hemoglobin 2004; 28: 145-50.

39. Sae-ung N, Matsushima T, Choi I, Abe Y, Winichagoon P, Fucharoen S, Nawata H, Muta K. Role of NF-κB in regulation of apoptosis of erythroid progenitor cells. Eur J Haematol 2005; 74: 315-23.
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41. Ngiwsara L, Srisomsap C, Winichagoon P, Fucharoen S, Sae-Ngow B, Svasti J. Hb kurosaki [α7(A5)Lys→Glu (AAG→GAG)]: an 2α-globin gene mutation found in Thailand Hemoglobin 2005; 29(2): 155-59.
42. Winichagoon P, Sithongdee S, Kanokpongakdi S, Tantisirin P, Bernini L F, Fucharoen S. Noninvasive prenatal diagnosis for hemoglobin Bart's hydrops fetalis. Int J Hematol 2005; 81: 396-9.
43. Wannasuphaphol B, Kalpravidh R, Patanapunyasat K, Ioannau P, Kuypers F A, Fucharoen S, Winichagoon P. Rescued mice with Hb E transgenic developed red cell changes similar to human β-thalassemia/Hb E disease. Ann NY Acad Sci 2005; 1054: 407-16.
44. Sripichai O, Whitacre J, Munkongdee T, Kumkhaek C, Makarasara W, Winichagoon P, Abel K, Braun A, Fucharoen S. Genetic analysis of candidate modifier polymorphisms in Hb E-$\beta^0$-thalassemia patients. Ann NY Acad Sci 2005; 1054: 433-8.
45. Fucharoen S. Genotypes and phenotypes of thalassemia: A discussion. Ann NY Acad. Sci. 2005; 1054: 518-21.
46. Watanapokasin Y, Chuncharunee S, Sanmund D, Kongnium W, Winichagoon P, Rodgers G P, Fucharoen S. In vivo and in vitro studies of fetal hemoglobin induction by hydroxyurea in β-thalassemia/Hb E patients. Exp Hematol 2005; 33: 1486-92.
47. Tanyong D, Fucharoen P, Netikul T, Raungwittayawut T, Siritanaratkul N, Fucharoen S. Study of cell viability in thalassemic erythroid progenitor cells. J Med Tech Assoc Thailand 2005; 33: 1217-24.
48. Chumpia W, Peerapittayamongkol C, Angchaisuksiri P, Komanasin N, Muta K, Kuaha K, Iida H, Inoue S, Wada Y, Kurihara M, Hamasaki N, Fucharoen S. Single nucleotide polymorphisms and haplotypes of protein C and protein S genes in the Thai population. Blood Coagulation and Fibrnolysis 2006; 17: 13-8.
49. Watanapokasin R, Sanmund D, Winichagoon P, Muta K, Fucharoen S. Hydroxyurea responses and fetal hemoglobin induction in β-thalassemia/HbE patients'peripheral blood erythroid cell culture. Ann Hematol 2006; 85: 164-9.
50. Peng C, Fucharoen S, Kontoghiorghes G J, Tsai C. Report on the proceedings of the 15th international conference on oral chelation (ICOC) in the treatment of thalassemia and other diseases at Taichung, Taiwan, April 22-26, 2005 Hemoglobin 2006; 30: 63-8.
51. Svasti S, Kole R, Fucharoen S. Repair of incorrectly spliced β-globin mRNA by antisense oligonucleotide. J Med Tech Assoc Thailand 2006; 34: 1369-77.287.
52. Jamsai D, Zaibak F, Vadolas J, Voullaire L, Fowler K J, Gazeas S, Peters H, Fucharoen S, Williamson R, Ioannou P A. A humanized BAC transgenic/knockout mouse model for HbE/β−thalassemia. Genomics 2006; 88: 309-15.
53. Changsri K, Akkarapathumwong V, Jamsai D, Winichagoon P, Fucharoen S. Molecular mechanism of high Hb F production in Southeast Asian-type HPFH. Int J Hematol 2006; 83: 229-37.

54. Srichairatanakool S, Ounjaijean S, Thephinlap C, Khansuwan U, Phisalpong C, Fucharoen S. Iron-chelating and free-radical scavenging activities of microwave-processed green tea in iron overload. Hemoglobin 2006; 30: 311-27.
55. Jintaridth P, Srisomsap C, Vichittumaros K, Kalpravidh R W, Winichagoon P, Fucharoen S, Svasti M.R. J, Kasinrerk W. Chicken egg yolk antibodies specific for the γ chain of human hemoglobin for diagnosis of thalassemia. Int J Hematol. 2006; 83: 408-14.
56. Luechapudiporn R, Phumala Morales N, Fucharoen S, Chantharaksri U. The reduction of cholesteryl linoleate in lipoproteins: and index of clinical severity in β-thalassemia/Hb E. Clin Chem Lab Med 2006; 44: 574-81.
57. Tankanitlert J, Howard T A, Temsakulphong A, Sirankapracha P, Morales N P, Sanvarind Y, Fucharoen P, Ware R E, Fucharoen S, Chantharaksri U. A pharmacokinetic study of paracetamol in Thai β-thalassemia/Hb E patients. Eur J Clin Pharmacol 2006; 62: 743-48.
58 Morales N P, Charlermchoung C, Luechapudiporn R, Yamanont P, Fucharoen S, Chantharaksri U. Lipid fluidity at different regions in LDL and HDL of β-thalassemia/Hb E patients. Biochemical and Biophysical Research Communications 2006; 350: 698-703.
59. Svasti S, Paksua S, Nuchprayoon I, Winichagoon P, Fucharoen S. Characterization of a novel deletion causing $(\delta\beta)^0$-thalassemia in a Thai family. Am J Hematol 2006; 82: 155-61.
60. Butthep P, Pattanapanyasat K, Vattanaviboon P, Fucharoen S, Wilirat P. Cytoadherence between endothelial cells and *P. falciparum* infected and noninfected normal and thalassemic red blood cells. Cytometry Part B (Clinical Cytometry) 2006; 65B: 432-42.
61. Wongseree W, Chaiyaratana N, Vichittumaros K, Winnichagoon P, Fucharoen S. Thalasaemia classification by neural networks and genetic programming. Information Sciences 2007; 177: 771-86.
62. Tankanitlert J, Morales N. P, Howard T A, Fucharoen P, Ware R.E, Fucharoen S, Chantharaksre U. Effect of combined UDP-glucuronosyltransferase (UGT) 1A1*28 and 1A6*2 on paracetamol pharmacokinetics in β-thalassemia/HbE. Pharmacology 2007; 79: 97-103.
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64. Sripichai O, Fucharoen S. Genetic polymorphisms and implications for human diseases. J Med Assoc Thai 2007; 90: 394-8.
65. Winichagoon P, Svasti S, Winichagoon P, Chitchumroonchokchai C, Fucharoen S. Expression of $\beta^E$ and γ-globin genes in infants heterozygous for hemoglobin E and double heterozygous for hemoglobin E and α-thalassemia. Haematologica. 2007; 92: 702-3.
66. Srichairatanakool S, Thephinlap C, Phisalaphong C, Porter JB, Fucharoen S. Curcumin contributes to *in vitro* removal of non-transferrin bound iron by deferiprone and desferrioxamine in thalassemic plasma. Medicinal Chemistry. 2007; 3:000.

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73. Svati S, Boonchoy C, Vanichsetakul P, Winichagool P, Fucharoen S. Molecular mechanism of b-thalassemia caused by 22-bp duplication. Ann Hematol 2008; 87:633-637.
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79. Wattanasirichaigoon D, Promsonthi P, Chuansumrit A, J Leopairut J, Yanatatsaneejit P, Rattanatanyong P, Munkongdee T, **Fucharoen S**, Mutirangura A. Maternal uniparental disomy of chromosome 16 resulting in hemoglobin Bart's hydrops fetalis. Clin Genet 2008; 74:284-287.
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83. Sutipornpalangkul W, Unchern S, Sanvarinda Y, Chantharaksri U, **Fucharoen S**. Modification of Platelet Shape Change Parameter by Oxidized Lipopritein from β-thalassemia/Hemoglobin E. J Med Assoc Thai 2009; 92 (4) : 504-509.
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