

ความชำนาญ/เชี่ยวชาญพิเศษ :

1. Malaria, Parasitology, Immunology
2. Immunological techniques
3. Cell culture techniques
4. Molecular biology techniques

หัวข้องานวิจัยที่สนใจ

1. Malaria
2. Malaria Immunopathogenesis
3. Immune response to malarial disease
4. Inflammatory markers and malaria disease severity
5. Inflammatory markers and tuberculosis susceptibility

งานวิจัยที่ตีพิมพ์แล้ว :

1. Tangteerawatana P, Krudsood S , Kanchanakhan N, Troye-Blomberg M , Khusmith S. Low monocyte to neutrophil ratio in peripheral blood associated with disease complication in primary *Plasmodium falciparum* infection. Southeast Asian J Trop Med Public Health. 2014 45 (3) 517-530.
2. Phawong C, Ouma C, Tangteerawatana P, Thongshoob J, Were T, Mahakunkijcharoen Y, Wattanasirichaigoon D, Perkins DJ, Khusmith S. Haplotypes of IL12B promoter polymorphisms condition susceptibility to severe malaria and functional changes in cytokine levels in Thai adults. Immunogenetics. 2010 Jun;62(6):345-56.
3. Tangteerawatana P, Perlmann H, Hayano M, Kalambaheti T, Troye-Blomberg M, Khusmith S. IL4 gene polymorphism and previous malaria experiences manipulate anti-*Plasmodium falciparum* antibody isotype profiles in complicated and uncomplicated malaria. Malar J. 2009 Dec 10;8:286.
4. Tangteerawatana P, Montgomery SM, Perlmann H, Looareesuwan S, Troye-Blomberg M, Khusmith S. Differential regulation of IgG subclasses and IgE antimalarial antibody responses in complicated and uncomplicated *Plasmodium falciparum* malaria. Parasite Immunology. (2007) Sep;29(9) : 475-83.
5. Tangteerawatana P, Pichyangkul S, Hayano M, Kalambaheti T, Looareesuwan S, Troye-Blomberg M, Khusmith S. Relative levels of IL4 and IFN-gamma in complicated malaria: association with IL4 polymorphism and peripheral parasitemia. Acta Trop. (2007) Mar;101(3) : 258-65.

6. Forouk SE, Shen J, Tangteerawatana P, Bolad A, Berzins K, Troye-Blomberg M. Analysis of T-cell responses in malaria-exposed and non-exposed donors using Plasmodium falciparum asexual blood stages enriched by a simple centrifugation method. Acta Trop. (2006) Jan;97(1).
7. Tangteerawatana P, Krudsood S, Chalermrut K, Looareesuwan S, Khusmith S. Natural human IgG subclass antibodies to *Plasmodium falciparum* blood stage antigens and their relation to malaria resistance in endemic area of Thailand. Submitted to Southeast Asian J Trop Med Public Health (2001) Jun;32(2):247-54.
8. Troye-Blomberg M, Worku S, Tangteerawatana P, Jamshaid R, Soderstrom K, ELGhazali G, Moretta L, Hammarstrom M, Mincheva-Nilsson L. Human $\gamma\delta$ T cell that inhibit the *in vitro* growth of the asexual blood stages of the *Plasmodium falciparum* parasite express cytolytic and proinflammatory Molecules. Scand J Immunol (1999) 51 : 642-650.
9. Khusmith.S , Tangteerawatana.P and Looareesuwan.S. Low CD8+ T lymphocyte response to *P.falciparum* circumsporozoite protein in naturally-exposed malaria endemic populations in Thailand. Southeast Asian J Trop Med Public Health. (1999) 30 : 405-411.
10. Pongsung.S, Sarasombath.S, Ekpo.P , Tangteerawatana P and Levine MM. Production of monoclonal antibodies to Vi polysaccharide antigen of *Salmonella typhi*. Asian Pacific J Aller Immunol (1993) 11 : 53-56.

บทความวิชาการ

1. ปิยะธิดา ^๑ตั้งธีระวัฒน์ ^๒ *Plasmodium knowlesi* มาลาเรียสายพันธุ์ใหม่ที่ก่อโรคในคน ธรรมชาติเวชสาร ปีที่ 9 (2552) ฉบับที่ 4 ตุลาคม-ธันวาคม, 396-402.
2. Piyatida Tangteerawatana Anti-*Plasmodium falciparum* IgG Antibody Responses and their Relation to Severity of Malaria among Thais *J Trop Med Parasitol*. 2011;34:41-8.

CURRICULUM VITAE

Piyatida Tangteerawatana, PhD. (Tropical Medicine)

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Education

INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
Khon Kaen University, Khon Kaen, Thailand	B.Sc	1987	Medical Technology
Mahidol University, Bangkok, Thailand	M.Sc.	1994	Tropical Medicine
Stockholm University, Stockholm, Sweden	Certificate	1996	Immunology
Mahidol University, Bangkok, Thailand	Ph.D	2007	Tropical Medicine

Experience and work-position

- 2010-present Assistant Professor, Department of Microbiology, Faculty of Medicine, Srinakarinwirot University, Bangkok, Thailand.
- 2001-2006 Ph.D. (Tropical medicine), Department of Microbiology and Immunology, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand.
- 2003-2005 Research study for Ph.D, Department of Immunology Stockholm University, Stockholm, Sweden
- 1997-2010 Lecturer, Department of Microbiology, Faculty of Medicine, Srinakarinwirot University, Bangkok, Thailand.
- 1994-1996 Visiting student, Department of Immunology, Stockholm University, Stockholm, Sweden.
- 1991-1994 M.Sc. (Tropical medicine), Department of Microbiology and Immunology, Mahidol University, Bangkok, Thailand.
- 1988-1991 Research assistance, Division of Immunology, Department of Microbiology, Faculty of Medicine, Siriraj Hospital, Mahidol University, Bangkok, Thailand.
- 1983-1987 B.Sc. (Medical Technology), Khon Kaen University, Khon Kaen, Thailand.

Academic Awards

- 1998 Young scientist travel award from International Union of Immunology Society (IUIS) together with UNESCO through ICSU Grants Program for research presentation at The 10th International Congress of Immunology, New Delhi, India, 1-6 November, 1998. Title : Function and cytokine profiles of *P.falciparum* antigen activated human \square \square T cells.
- 1998 Continuing Education Workshop in Immunology at School of life Science, Jawaharlal. Nehru University, New Delhi, India (Oct 30 - Nov 1 1998).

Publications

Original articles

Tangteerawatana P, Krudsood S , Kanchanakhan N, Troye-Blomberg M , Khusmith S. Low monocyte to neutrophil ratio in peripheral blood associated with disease complication in

primary *Plasmodium falciparum* infection. Southeast Asian J Trop Med Public Health. 2014 45 (3) 517-530.

Phawong C, Ouma C, Tangteerawatana P, Thongshoob J, Were T, Mahakunkijcharoen Y, Wattanasirichaigoon D, Perkins DJ, Khusmith S. Haplotypes of IL12B promoter polymorphisms condition susceptibility to severe malaria and functional changes in cytokine levels in Thai adults. Immunogenetics. 2010 62(6):345-56.

Tangteerawatana P, Perlmann H, Hayano M, Kalambaheti T, Troye-Blomberg M, Khusmith S. IL4 gene polymorphism and previous malaria experiences manipulate anti-*Plasmodium falciparum* antibody isotype profiles in complicated and uncomplicated malaria. Malar J. 2009 10 :286.

Tangteerawatana P, Montgomery SM, Perlmann H, Looareesuwan S, Troye-Blomberg M, Khusmith S. Differential regulation of IgG subclasses and IgE antimalarial antibody responses in complicated and uncomplicated *Plasmodium falciparum* malaria. Parasite Immunology. 2007 29(9) : 475-83.

Tangteerawatana P, Pichyangkul S, Hayano M, Kalambaheti T, Looareesuwan S, Troye-Blomberg M, Khusmith S. Relative levels of IL4 and IFN-gamma in complicated malaria: association with IL4 polymorphism and peripheral parasitemia. Acta Trop. 2007 101(3) : 258-65.

Forouk SE, Shen J, Tangteerawatana P, Bolad A, Berzins K, Troye-Blomberg M. Analysis of T-cell responses in malaria-exposed and non-exposed donors using Plasmodium falciparum asexual blood stages enriched by a simple centrifugation method. Acta Trop. 2006 97 (1) : 42-9.

Tangteerawatana P, Krudsood S, Chalermrut K, Looareesuwan S, Khusmith S. Natural human IgG subclass antibodies to *Plasmodium falciparum* blood stage antigens and their relation to malaria resistance in endemic area of Thailand. Southeast Asian J Trop Med Public Health 2001 32(2):247-54.

Troye-Blomberg M, Worku S, Tangteerawatana P, Jamshaid R, Soderstrom K, ELGhazali G, Moretta L, Hammarstrom M, Mincheva-Nilsson L. Human $\gamma\delta$ T cell that inhibit the *in vitro* growth of the asexual blood stages of the *Plasmodium falciparum* parasite express cytolytic and proinflammatory Molecules. Scand J Immunol 1999 51 : 642-650.

Khusmith S, Tangteerawatana P and Looareesuwan S. Low CD8+ T lymphocyte response to *P.falciparum* circumsporozoite protein in naturally-exposed malaria endemic populations in Thailand. Southeast Asian J Trop Med Public Health. 1999 30 : 405-411.

Pongsung S, Sarasombath S, Ekpo P, Tangteerawatana P and Levine MM. Production of monoclonal antibodies to Vi polysaccharide antigen of *Salmonella typhi*. Asian Pacific J Allergy Immunol 1993 11 : 53-56.

Review articles

Piyatida Tangteerawatana Anti-*Plasmodium falciparum* IgG Antibody Responses and their Relation to Severity of Malaria among Thais. J Trop Med Parasitol. 2011;34:41-8. (Review in Thai)

Piyatida Tangteerawatana *Plasmodium knowlesi* infection in human. Thammasat Med J. 2009 9: 396-402. (Review in Thai)

Interested research field

- Malaria
- Immune response to malarial disease
- Malaria Immunopathogenesis
- Inflammatory markers and malaria disease severity
- Inflammatory markers and tuberculosis susceptibility

Research supports

Completed Research Support

Grant: New Researcher Grant of the Thailand Research Fund (TRF) and the Higher Education Commission to Piyatida Tangteerawatana (MDG5180060 : 05/2008-05/2010)

Research title : “Pro- and anti-inflammatory cytokines and their gene polymorphisms in relation to malaria severity”

Role (PI)

Grant: Srinakharinvirot University to Piyatida Tangteerawatana (10/1999-09/2000)

Research title : Anti - *P.falciparum* immunoglobulin isotype to asexual blood stage antigens in individuals with different episode of malaria.

Role (PI)