

## **PERSONAL**

Name: Wu, Te-Chia PhD

DOB: August 28, 1982

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## **EDUCATION**

Baylor University; Texas, U.S.A.

Graduate school of Biomedical studies 08/2008-08/2013

Dissertation title: Reprogramming the Immune Environment in Breast Cancer via Dendritic Cells

National Cheng Kung University, Tainan, Taiwan

Graduate School of Microbiology and Immunology 09/2004-06/2006

Thesis Title: Cross-reactivity of Coxsackie A16 virus protects Enterovirus 71 infection in mice

Taipei Medical University, Taipei, Taiwan

Department of Medical Technology 09/2000-06/2004

B. S. completed in June 2004 with GPA 85.96/100.00, equal to GPA 3.84/4.00, ranking 3 out of 67; GPA for final two years 88.14/100.00

## **EMPLOYMENT**

Employer: Jackson Laboratory

Position: Post-doc associate at Jackson genomic medicine

Period: 03/2014~present

Employer: Baylor Health Care System

Position: Post-doc at Baylor Institute for Immunology Research

Period: 09/2013~present

Topic of research: Reprogramming immune microenvironment via dendritic cells in breast cancer

Employer: National Cheng Kung University

Position: Research assistant at Graduate School of Microbiology and Immunology

Period: 08/2006~07/2008

Topic of research: Protective immunity to EV71 infection and pathogenesis of EV71

## PUBLICATIONS

**1. Reprogramming Tumor-Infiltrating Dendritic Cells for CD103+CD8+ Mucosal T-cell Differentiation and Breast Cancer Rejection.** Te-Chia Wu, Xu K, Banchereau R, Marches F, Yu C, Martinek J, Anguiano E, Pedroza-Gonzalez A, Snipes GJ, O'Shaughnessy J, Nishimura S, Liu YJ, Pascual V, Banchereau J, Oh S and Palucka K (accepted by Cancer Immunology Research)

**2. Thymic stromal lymphopoietin fosters human breast tumor growth by promoting type 2 inflammation** *J Exp Med.* 2011 Mar 14;208(3):479-90. doi: 10.1084/jem.20102131. Pedroza-Gonzalez A, Xu K Te-Chia Wu, Aspod C, Tindle S, Marches F, Gallegos M, Burton EC, Savino D, Hori T, Tanaka Y, Zurawski S, Zurawski G, Bover L, Liu YJ, Banchereau J, Palucka AK.

**3. Immunity to avirulent enterovirus 71 and Coxsackie A16 virus protect against enterovirus 71 infection in mice.** *Journal of Virology*, Oct. 2007, p. 10310–10315, Vol. 81, No. 19. Te-Chia Wu, Wang JF, Lee YP, Wang JR, Liu CC, Wang SM, Lei HY, Su IJ, and Yu CK

## MANUSCRIPTS IN PREPARATION

**1. Inhibition of type I NKT cells by TSLP in breast tumor microenvironment.** Te-Chia Wu *et al.*

**2. Reprogramming T cell immune responses with TLR8/7 agonist in breast cancer microenvironment.** Te-Chia Wu *et al.*

## CONFERENCE PROCEEDINGS

### Posters/Abstracts

- 2011 May: American Association of Immunology
- 2011 September: poster presentation in Roche/Nature Medicine symposium on cancer immunology and immunotherapy  
“Reprogramming Immune Environment in Breast Cancer via Dendritic Cells”
- 2011 October: poster presentation in AACR Tumor Microenvironment Complexity  
“Reprogramming Immune Environment in Breast Cancer via Dendritic Cells”
- 2013 January: poster presentation in Keystone cancer immunology and immunotherapy  
“Reprogramming breast cancer microenvironment for cancer rejection via

dectin-1 on tumor-infiltrating dendritic cells”

- 2013 September: International breast cancer symposium
- 2013 December: poster presentation in San Antonio Breast Cancer Symposium  
“Ligation of dectin-1 on tumor infiltrating dendritic cells promotes breast cancer rejection”

### **Oral presentations**

- 2011 November: Oral presentation and poster presentation in BIIR Annual meeting  
“ $\beta$ -glucan Blocks Th2 Microenvironment and Promotes Tumor Rejection via Dendritic Cells”
- 2012 November: Oral presentation and poster presentation in BIIR Annual meeting  
“Rejection of breast cancer via ligation of dectin-1 on tumor infiltrating dendritic cell”
- 2013 November: Oral presentation and poster presentation at AACR meeting: The Translational Impact of Model Organisms in Cancer  
“Targeting the Immune Environment in Humanized Mice Model of Breast Cancer”

### **AWARDS**

**2011 September** The second place poster award at the Roche/Nature Medicine symposium on cancer immunology and immunotherapy

**2013 November** Poster award in BIIR Annual retreat

### **PATENTS**

Reprogramming Immune Environment in Breast Cancer via Dendritic Cells

Application number: 20130064855

Filed: September 2012

Issued: March 2013

Assignee: Baylor Research Institute

Inventors: Anna Karolina Palucka, Jacques F. Banchereau, Florentina Marches, Chun Yu, SangKon Oh, **Te-Chia Wu**

### **TECHNICAL SKILLS**

#### **Cell biology:**

Cell culture (cell lines and primary cells); human primary tumor samples processing; Ficoll purification of PBMCs; Isolation and purification of human dendritic cells and T cells populations by positive and negative selection with magnetic beads, and by flow cytometry sorting; Multicolor Flow cytometry: BD ARIA, BD Canto; monocyte-

derived DCs culture; Immunofluorescence staining; ELISA; Plaque assay to determine viral infection; neutralization assay

**Molecular biology:**

DNA and RNA extraction; PCR, RT-PCR; Immunoblotting; Assay for transposase-accessible chromatin using sequencing (ATAC-seq) library preparation

**Mouse biology:**

Mouse with viral infection model: sample harvesting; homogenizing for plaque assay; hyperimmune serum immunization and production; viral oral infection; intraperitoneal, intramuscular, intracerebral, subcutaneous and intravenous injection.

Mouse with breast tumor model (humanized mice model): sample harvesting and processing; intraperitoneal, intramuscular, subcutaneous, intratumoral and intravenous injection