



25th World Congress of Dermatology SINGAPORE 2023



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Professor Wen-Hung Chung, M.D., Ph.D.

Education:

1990-1997 School of Medicine, Chung Shan Medical University (M.D.)

2003-2008 Taiwan International Graduate Program, Molecular Medicine, Academia Sinica and National Yang Ming University (Ph.D.)

Fulltime Employment:

Jul. 2003 – 2010 Attending Physician/ Assistant Professor, Department of Dermatology, Chang Gung Memorial Hospital, Taiwan

2009-2010 Assistant Professor, school of medicine, Chang Gung University, Taiwan

2009-2016 Physician scientist, Chang Gung Memorial Hospital, Taiwan

2011-2016 Associate Professor, Chang Gung Memorial Hospital & school of medicine, Chang Gung University, Taiwan

2011-present Director of drug hypersensitivity clinical and research center, Chang Gung Memorial Hospital, Taiwan

2015-present Professor, Chang Gung Memorial Hospital & school of medicine, Chang Gung University, Taiwan

2015-present Director of department of dermatology, Chang Gung Memorial Hospital, Taipei, Taiwan

2015-present Director of Whole-Genome Research Core Laboratory of Human Diseases, Chang Gung Memorial Hospital, Taiwan

2017-present Vice Superintendent of Chang Gung Memorial Hospital, Xiamen

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Honors:

- 2005 Chen-yuan Lee Young Scientist Medical Research Award
- 2006 The 2006 Top 10 Rising Stars in Taiwan
- 2006 Prize of Taiwan Skin Education Research & Development Foundation
- 2009 Chang Gung Memorial Hospital President Wang's Golden award
- 2009 The 7th Y.Z. Hsu Scientific Paper award
- 2009 Young Investigator Award (Ta-You Wu Memorial Award), Taiwan
- 2009 The 47th Ten Outstanding Young Persons, Taiwan
- 2011 The International League of Dermatological Societies (ILDS) Young Dermatologist International Achievement Award.
- 2015 Outstanding Research Award of Ministry of Science and Technology, Taiwan
- 2018 Honorary member of the French Society of Dermatology

Focus of interest:

Adverse drug reactions and drug hypersensitivity

Pharmacogenomics

Clinical trials, epidemiology, immunology

Representative publications:

1. Wang CW, Tassaneeyakul W, Chen CB, Chen WT, Teng YC, Huang CY, Sukasem C, Lu CW, Lee YS, Choon SE, Nakkam N, Chung-Yee Hui R, Huang YH, Chang YC, Yu-Wei Lin Y, Chang CJ, Chiu TM, Chantratita W, Konyoung P, Lee CN, Klaewsongkram J, Rerkpattanapipat T, Amornpinyo W, Saksit N, Rerknimitr P, Huei HY, Lin SH, Hsu CK, Fan WL, Chan CC, Lin YJ, Hung SI, **Chung WH**; Taiwan/Asian Severe Cutaneous Adverse Reaction Consortium Whole Genome Sequencing Identifies Genetic Variants Associated with Co-trimoxazole Hypersensitivity in Asians.. **J Allergy Clin Immunol. 2020 Aug** (*corresponding author)

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- Chen CB, Hsu TH, Chung-Yee Hui R, Lu CW, Chen WT, Chiang PH, Wang CW, Chuang SS, Yang JY, Yang SY, Chang SY, Hsiao YC, Kao KC, Hu HC, Wu TS, Hsu CW, Hui-Kang Ma D, Chen SY, Tian YC, Cheng CY, Chen CH, Chi MH, Wu MY, Liu RF, Wang CH, Chang YG, Lin JY, Ho HC, Yu-Wei Lin Y, Chang CJ, Lin YJ, Ku CL, Hung SI, **Chung WH**; Disseminated intravascular coagulation in Stevens-Johnson syndrome and toxic epidermal necrolysis. Taiwan Severe Cutaneous Adverse Reaction Consortium. **J Am Acad Dermatol.** 2020 Aug (*corresponding author)
- Marcus Maurer, Ana M Giménez-Arnau, Gordon Sussman, Martin Metz, Diane R Baker, Andrea Bauer, Jonathan A Bernstein, Randolph Brehler 1, Chia-Yu Chu, **Wen-Hung Chung**, Inna Danilycheva, Clive Grattan, Jacques Hébert, Constance Katelaris, Michael Makris, Raisa Meshkova, Sinisa Savic, Rodney Sinclair, Karl Sitz, Petra Staubach, Bettina Wedi, Jürgen Löffler, Avantika Barve, Kenneth Kobayashi, Eva Hua, Thomas Severin, Reinhold Janocha. Ligelizumab for Chronic Spontaneous Urticaria. **N Engl J Med.** 2019 Oct 3;381(14):1321-1332.
- Pan RY, Chu MT, Wang CW, Lee YS, Lemonnier F, Michels AW, Schutte R, Ostrov DA, Chen CB, Phillips EJ, Mallal SA, Mockenhaupt M, Bellón T, Tassaneeyakul W, White KD, Roujeau JC, **Chung WH***, Hung SI*. Identification of drug-specific public TCR driving severe cutaneous adverse reactions. **Nat Commun.** 2019 Aug 8;10(1):3569 (*correspondence)
- Wang CW, Yang LY, Chen CB, Ho HC, Hung SI, Yang CH, Chang CJ, Su SC, Hui RC, Chin SW, Huang LF, Lin YY, Chang WY, Fan WL, Yang CY, Ho JC, Chang YC, Lu CW, **Chung WH***; and the Taiwan Severe Cutaneous Adverse Reaction (TSCAR) Consortium. Randomized, controlled trial of TNF- α antagonist in CTL-mediated severe cutaneous adverse reactions. **J Clin Invest.** 2018 Mar 1;128(3):985-996 (*correspondence)
- Chen WT, Wang CW, Lu CW, Chen CB, Lee HE, Hung SI, Choon SE, Yang CH, Liu MT, Chen TJ, Fan WL, Su SC, Lin YY, Chang YC, **Chung WH***; Taiwan Severe Cutaneous Adverse Reaction Consortium. The Function of HLA-B*13:01 Involved in the Pathomechanism of Dapsone-Induced Severe Cutaneous Adverse Reactions. **J Invest Dermatol.** 2018 Jul;138(7):1546-1554(*correspondence)
- Lin CY, Wang CW, Hui CR, Chang YC, Yang CH, Cheng CY, Chen WW, Ke WM, **Chung WH*** Delayed-type hypersensitivity reactions induced by proton pump inhibitors: A clinical and in vitro T-cell reactivity study. **Allergy.** 2017 Jun 28. (*correspondence)
- Su SC, Mockenhaupt M, Wolkenstein P, Dunant A, Le Gouvello S, Chen CB, Chosidow O, Valeyrie-Allanore L, Bellon T, Sekula P, Wang CW, Schumacher M, Kardaun SH, Hung SI, Roujeau JC, **Chung WH***. Interleukin-15 Is Associated with Severity and Mortality in Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis. **J Invest Dermatol.** 2017 May;137(5):1065-1073(*correspondence)
- Chen CB, Hsiao YH, Wu T, Hsih MS, Tassaneeyakul W, Jorns TP, Sukasem C, Hsu CN, Su SC, Chang WC, Hui RC, Chu CY, Chen YJ, Wu CY, Hsu CK, Chiu TM, Sun PL, Lee HE, Yang CY, Kao PH, Yang CH, Ho HC, Lin JY, Chang YC, Chen MJ, Lu CW, Ng CY, Kuo KL, Lin CY, Yang CS, Chen DP, Chang PY, Wu TL, Lin YJ, Weng YC, Kuo TT, Hung SI, **Chung WH***; Taiwan Severe Cutaneous Adverse Reaction Consortium.. Risk and association of HLA with oxcarbazepine-induced cutaneous adverse reactions in Asians. **Neurology.** 2017 Jan 3;88(1):78-86 (*correspondence)
- Chen TJ, **Chung WH***, Chen CB, Hui RC, Huang YH, Lu YT, Wang CW, Wang KH, Yang LC, Hung SI. Methotrexate-induced epidermal necrosis: A case series of 24 patients. **J Am Acad Dermatol.** 2017 Aug;77(2):247-255. (*equal contribution)
- Ng CY, Yeh YT, Wang CW, Hung SI, Yang CH, Chang YC, Chang WC, Lin YJ, Chang CJ, Su SC, Fan WL, Chen DY, Wu YJ, Tian YC, Hui RC, **Chung WH***; Taiwan Severe Cutaneous Adverse Reaction Consortium. Impact

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- of the HLA-B*58:01 Allele and Renal Impairment on Allopurinol-Induced Cutaneous Adverse Reactions. *J Invest Dermatol.* **2016** Jul (*correspondence)
12. White KD, **Chung WH**, Hung SI, Mallal S, Phillips EJ. Evolving models of the immunopathogenesis of T cell-mediated drug allergy: The role of host, pathogens, and drug response. *J Allergy Clin Immunol.* **2015** Aug;136(2)
 13. Yang CY, Chen CH, Deng ST, Huang CS, Lin YJ, Chen YJ, Wu CY, Hung SI, **Chung WH**. Allopurinol Use and Risk of Fatal Hypersensitivity Reactions: A Nationwide Population-Based Study in Taiwan. *JAMA Intern Med.* **2015** Jul 20. (*correspondence)
 14. **Chung WH**, Pan RY, Chu MT, Chin SW, Huang YL, Wang WC, Chang JY, Hung SI. Oxypurinol-Specific T Cells Possess Preferential TCR Clonotypes and Express Granulysin in Allopurinol-Induced Severe Cutaneous Adverse Reactions. *J Invest Dermatol.* **2015** Sep;135(9):2237-48.
 15. **Wen-Hung Chung**, Wan-Chun Chang, Sophie L. Stocker, Chiun-Gung Juo, Garry G Graham, Ming-Han H. Lee, Kenneth M. Williams, Ya-Chung Tian, Chih-Hsun Yang, Chee-Jen Chang, Yu-Jr Lin, Richard O. Day, Shuen-Iu Hung. Insights into the poor prognosis of allopurinol-induced severe cutaneous adverse reactions: the impact of renal insufficiency, high plasma levels of oxypurinol and granulysin. *Ann Rheum Dis.* **2014** Aug 12.
 16. **Chung WH**, Chang WC, Lee YS, Wu YY, Yang CH, Ho HC, Chen MJ, Lin JY, Hui RCY, Ho JC, Wu WM, Chen TJ, Wu T, WU YR, Hsieh MS, TU PH, Chang CN, Hsu CN, Wu TL, Choon SE, Hsu CK, Chen DY, Liu CS, Lin CY, Kaniwa N, Saito Y, Takahashi Y, Nakamura R, Azukizawa H, SHi Y, Wang TH, Chang SS, Tsai SF, Chang CJ, Chang YS, Hung SI, Taiwan SCAR consortium, and JPDS. Genetic variants associated with pentytoin-related severe cutaneous adverse reactions. *JAMA.* **2014** Aug 6;312(5):525-34.
 17. Lin YF1, Yang CH, Sindy H, Lin JY, Rosaline Hui CY, Tsai YC, Wu TS, Huang CT, Kao KC, Hu HC, Chiu CH, Hung SI, **Chung WH***. Severe Cutaneous Adverse Reactions Related to Systemic Antibiotics. *Clin Infect Dis.* **2014** May; 8(10):1377-85 (*correspondence)
 18. **Chung WH**, Shih SR, Chang CF, Lin TY, Huang YC, Chang SC, Liu MT, Ko YS, Deng MC, Liao YL, Lin LH, Chen TH, Yang CH, Ho HC, Lin JW, Lu CW, Lu CF, Hung SI. Clinicopathologic Analysis of Coxsackievirus A6 new variant induced widespread mucocutaneous bullous reactions mimicking severe cutaneous adverse reactions. *J Infect Dis.* **2013** Jul 31.
 19. Wang CW, **Chung WH**, Cheng YF, Ying NW, Peck K, Chen YT, Hung SI. A new nucleic acid-based agent inhibits cytotoxic T lymphocyte-mediated immune disorders. *J Allergy Clin Immunol.* **2013** Jun 18. doi:pii: S0091-6749(13)00683-0. 10
 20. **Chung WH**, Hung SI. HLA-B*1502 genotyping for preventing phenytoin-induced Stevens-Johnson syndrome and toxic epidermal necrolysis? *Neurology.* **2013** Apr 23;80(17):1621.
 21. Ko JH, **Chung WH***. Serum sickness. *Lancet.* **2013** Jan 19;381 (*correspondence)
 22. Wei CY, **Chung WH**, Huang HW, Chen YT, Hung SI. Direct interaction between HLA-B and carbamazepine activates T cells in Stevens-Johnson syndrome. *J Allergy Clin Immunol.* **2012** Jun;129(6):1562-9
 23. Yang CY, Dao RL, Lee TJ, Lu CW, Yang CH, Hung SI, **Chung WH***. Severe cutaneous adverse

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reactions to antiepileptic drugs in Asians. **Neurology**. 2011 Dec 6;77(23):2025-33. (*correspondence)

24. Chen P, Lin JJ, Lu CS, Ong CT, Hsieh PF, Yang CC, Tai CT, Wu SL, Lu CH, Hsu YC, Yu HY, Ro LS, Lu CT, Chu CC, Tsai JJ, Su YH, Lan SH, Sung SF, Lin SY, Chuang HP, Huang LC, Chen YJ, Tsai PJ, Liao HT, Lin YH, Chen CH, **Chung WH**, Hung SI, Wu JY, Chang CF, Chen L, Chen YT, Shen CY; Taiwan SJS Consortium. Carbamazepine-induced toxic effects and HLA-B*1502 screening in Taiwan. **N Engl J Med**. 2011 Mar 24;364(12):1126-33.
25. Ko TM, **Chung WH**, Wei CY, Shih HY, Chen JK, Lin CH, Chen YT, Hung SI. Shared and restricted T-cell receptor use is crucial for carbamazepine-induced Stevens-Johnson syndrome. **J Allergy Clin Immunol**. 2011 Dec;128(6):1266-1276
26. Phillips EJ, **Chung WH**, Mockenhaupt M, Roujeau JC, Mallal SA. Drug hypersensitivity: pharmacogenetics and clinical syndromes. **J Allergy Clin Immunol**. 2011 Mar;127:S60-6. (Review)
27. Hung SI*, **Chung WH***, Liu ZS, Chen CH, Hsieh MS, Hui RY, Chu CY, Chen YT. Common risk allele in aromatic anti-epileptic-drugs induced Stevens-Johnson syndrome and toxic epidermal necrolysis in Han Chinese. **Pharmacogenomics**. 2010 Mar;11(3):349-56. (*contributed equally)
28. **Chung WH**, Hung SI, Yang JY, Su SC, Huang SP, Wei CY, Chin SW, Chiou CC, Chu SC, Ho HC, Yang CH, Lu CF, Wu JY, Liao YD, Chen YT. Granulysin is a key mediator for disseminated keratinocyte death in Stevens-Johnson syndrome and toxic epidermal necrolysis. **Nature Medicine**. 2008 Dec;14(12):1343-50.
29. Lin WL, Lin WC, Yang JY, Hung SI, **Chung WH***. Fatal Toxic Epidermal Necrolysis Associated With Cetuximab in a Colon Cancer Patient. **J Clin Oncol**. 2008 Jun 1;26(16):2779-80. (*corresponding author)
30. **Chung WH***, Hung SI*, Jee SH, Chen WC, Chang YT, Lee WR, Hu SL, Wu MT, Chen GS, Wong TW, Hsiao PF, Chen WH, Shih HY, Fang WH, Wei CY, Lou YH, Huang YL, Lin JJ, Chen YT. Genetic susceptibility to carbamazepine-induced cutaneous adverse drug reactions. **Pharmacogenet Genomics**. 2006 Apr;16(4):297-306. (*contributed equally)
31. Hung SI*, **Chung WH***, Liou LB, Chu CC, Lin M, Huang HP, Lin YL, Lan JL, Yang LC, Hong HS, Chen MJ, Lai PC, Wu MS, Chu CY, Wang KH, Chen CH, Fann CS, Wu JY, Chen YT. HLA-B*5801 allele as a genetic marker for severe cutaneous adverse reactions caused by allopurinol. **Proc Natl Acad Sci U S A**. 2005; 102(11):4134-9. (*contributed equally)
32. **Chung WH**, Hung SI, Hong SH, Hsieh MS, Yang LC, Ho HC, Wu JY, Chen YT. Medical genetics: a marker for Stevens-Johnson syndrome. **Nature** 2004; 428(6982):486.

Involved in the Clinical trials as follows:

PI as follows:

- Phase III study, Chronic Spontaneous Urticaria, 154 sites, 450 patients
- Phase IIb study, Prurigo Nodularis, 4 sites in Taiwan, 180 patients
- Phase III study, Adult and adolescent with moderate to severe atopic dermatitis, 100 sites, 400 patients
- Phase III study, Adult and adolescent with atopic dermatitis, 100 sites, 400 patients
- Phase III study, Adult and adolescent with alopecia areata, 120 sites, 860 patients
- Phase IIb/III study, Adult and adolescent with alopecia areata, 120 sites, 660 patients
- Phase III study, Adult with plaque psoriasis, 35 sites, 180 patients

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- Phase IIb/III study, Adult and adolescent with alopecia areata, 120 sites, 600 patients
- Phase III study, Pediatric patients with atopic dermatitis, 6 sites in Taiwan, 465 patients
- Phase III study, Adult with atopic dermatitis, 6 sites in Taiwan, 329 patients
- Phase III study, Adult with atopic dermatitis, 117 sites, 600 patients
- Phase III study, Moderate to severe atopic dermatitis, 117 sites, 600 patients
- Phase IIb study, Chronic Spontaneous Urticaria study (CSU), 100 sites, 360 patients

Sub-I as follows

- Phase III study, Moderate to severe hidradenitis suppurativa, 132 sites, 471 patients
- Phase III study, Active psoriatic arthritis, 120 sites, 6 patients in Taiwan

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