

## CURRICULUM VITAE

謝世良 (Shie-Liang Hsieh) M.D., D.Phil.

### PERSONAL INFORMATION

Address: 臺北市南港區研究院路二段 128 號  
(128 Academia Road, Section 2, Nankang District, Taipei 115, Taiwan)  
中央研究院基因體研究中心  
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### EDUCATION

1992 D. Phil, Department of Biochemistry, University of Oxford, UK  
1988 Master, Institute of Microbiology and Immunology, Taipei, Taiwan  
1984 MD. National Yang-Ming University (NYMU) School of Medicine, Taipei, Taiwan

### POSTGRADUATE INFORMATION: 1993-1994

Post-doctor fellow (Robert Wood Johnson's Fellowship)  
Department of Microbiology and Immunology, Stanford University School of Medicine  
Mentor: Hugh. O. McDevitt, M.D.

### EXPERIENCE

2013-present Distinguished research fellow, Genomics Research Center, Academia Sinica  
2014-present Adjunct Professor, National Taiwan University  
2013-present Adjunct Professor, National Yang-Ming University  
2013-present Distinguished research fellow, Taipei Veterans General Hospital  
2012-present Adjunct Professor, The Institute for Cancer Biology and Drug Discovery,  
College of Medical Science and Technology, Taipei Medical University.  
2010-2013 Director, Infection and Immunity Research Center, NYMU  
2010-2013 Director, Institute of Clinical Medicine, NYMU  
2005-present Adjunct Senior Investigator, National Health Research Center, Taiwan  
2004-2005 Director, Department of Research and Education, Taipei City Hospitals  
2007-2008 Visiting Scholar, The Scripps Research Center (hosted by Prof. Chi-Huey Wong)  
2006 Visiting Scholar, The Scripps Research Center (hosted by Prof. James Paulson)  
2000-2005 Professor, Dep. of Microbiol. & Immunol. NYMU  
1998 summer Visiting Scholar, Stanford University, (hosted by Professor Hugh McDevitt)  
1998 summer Visiting Scholar, DNAX (hosted by Dr. Yung-Jung Liu)  
1994-2000 Associate Professor, Dep. of Microbiol. NYMU  
1993-1994 Post-fellow, Stanford University, Palo Alto, USA

### FIELD OF SPECIALTY (Research Interest)

1) Glycoimmunology; 2) Cancer Immunology; 3) Molecular Medicine

## HONORS & AWARDS

- 2013 8<sup>th</sup> Session TienTe Lee Award (第八屆永信李天德卓越醫藥科技獎)
- 2012 National Chair Professor Award (教育部第 16 屆國家講座)
- 2010 Outstanding Researcher Award from the National Science Council (國科會傑出研究獎)
- 2009 Long-Term Award from **Acer** Foundation (第四屆宏碁基金會龍騰微笑得獎人)
- 2009 Academic Achievement Award, Ministry of Education (教育部第 53 屆學術獎)
- 2009 Academic Achievement Award, Ministry of Education (台灣醫學會杜聰明博士紀念演講獎)
- 2009 中華民國免疫學會傑出研究學者獎
- 2008 Outstanding research Achievement to National Health, “Ming-Ning Wang Memorial Foundation” (2008), (第十八屆王民寧獎-傑出貢獻獎得獎人)
- 2003 Outstanding Alumni, National Yang-Ming University (第一屆陽明大學 傑出校友)
- 2003 Outstanding Researcher Award from the National Science Council (國科會傑出研究獎)
- 1999 Outstanding Researcher Award from the National Science Council (國科會傑出研究獎)
- 1992 Irvington Medial Foundation post-doctoral fellowship ‘Robert Wood Johnson Fellow’
- 1989 Oversea Research Scholarship (ORS) from the University of Oxford
- 1989 Oversea PhD studentship from the Ministry of Education, Taiwan

## PATENTS:

1. ‘Placenta derived apoptosis factor (PDAF) (US patent 6,689,867 B1)
2. Composition and methods for identify response targets and treating flaviviral infection response” (U.S patent 7,943,134 B2/May 17 11, 2011)
3. Methods and reagents for the analysis and purification of polysaccharides (US patent 7998482/Aug. 16, 2011).
4. 用於偵測目標反應與治療黃病毒感染症狀之化合物之及方法(中華民國 403886 號, 2013)
5. "METHOD FOR TREATING INFLUENZA A VIRUS INFECTION" PCT & Taiwan (pending)
6. Recombinant decoy receptor 3 protein for the treatment of acute spinal injury PCT and USA (pending)
7. “Recombinant decoy receptor 3 protein for the treatment of Alzheimer’s disease” PCT and USA (pending, 2016)

## TECHNOLOGY TRANSFER

1. Profiling of polysaccharides and fingerprinting of pathogens by innate immunity receptors
2. Composition and methods for identify response targets and treating flaviviral infection response

## SELECTED PROFESSIONAL ACTIVITIES

- 2008 Interviewed by BBC World Service: for discovery of treatment for dengue virus
- 2008 Interviewed by British Science Museum: anti-dengue treatment
- 2008 Interviewed by Brazil TTV: anti-dengue treatment
- 2008 News of anti-dengue treatment was reported in the international media, including Electronic media (Yahoo) and British Telegraph, France AFP, Russia, China, Germany,

Canada, Spain, India, Brazil, Mexico, Australia, Thailand, Vietnam.

## **EDITOR**

- 2013 Editorial Board, Journal of Molecular Medicine (Springer)
- 2013 Editorial Board, American Journal of Cancer Biology (Ivy Union Publishing LLC)
- 2013 Editorial Board, American Journal of Cancer Review (Ivy Union Publishing LLC)
- 2013 Editorial Board, Pathogens and Diseases (FEMS Immunology & Medical Microbiology)
- 2010 Editorial Board, Journal of the Formosan Medical Association
- 2009 Editorial Board, World Journal of Biological Chemistry (WJBC)

## **MEMBER OF EDITORIAL BOARD**

1. World Journal of Biological Chemistry (WJBC) from 2009
2. Pathogens and Diseases (FEMS Immunology & Medical Microbiology) from 2013
3. Journal of Molecular Medicine (Springer) from 2013

## **INVITED REVIEWING ACTIVITIES FOR INTERNATIONAL PEER-REVIEW JOURNALS**

1. American Journal of Pathology
2. Anti-Viral Research (Elsevier Publisher)
3. Archives of Virology (Springer)
4. BBA - Molecular Cell Research
5. Biochemical Pharmacology (Elsevier Publisher)
6. BioMed Central (BMC) Cancer
7. Brain Research Bulletin (International Behavioral Neuroscience Society)
8. Clinical and Experimental Immunology (British Society for Immunology, BSI)
9. Cancer Letter (Elsevier Publisher)
10. Cancer Sciences (Blackwell Publishing)
11. Chemotherapy (Elsevier Publisher)
12. Clinical Cancer Research (American Association of Cancer Research, AACR)
13. Genesis (Wiley Publishing)
14. Genes and Immunity (Nature Publishing Group, NPG)
15. Immunology (British Society for Immunology, BSI)
16. Infection and Immunity (American Society for Microbiology, ASM)
17. Journal of Biomedical Science (Springer Netherlands)
18. Journal of Formosan Medical Association (Taiwan Medical Association)
19. Journal of Hepatology (Elsevier Publisher)
20. Journal of Virology (American Society of Microbiology)
21. Journal of Molecular Medicine (Springer)
22. Journal of Virology (American Society of Microbiology)
23. International Journal of Infectious Diseases (Elsevier Publisher)
24. International Journal of Cancer (Elsevier Publisher)
25. Journal of Immunology (AAI)
26. Microbiology and Immunology (Wiley-Blackwell)
27. Molecular Immunology (Elsevier Publisher)
28. Nature Communications (NPG)
29. Nature Scientific Report (NPG)

30. PLoS One (Public Library)
31. Science Report (NPG)

## **PROFESSIONAL MEMBERSHIP**

American Association for Cancer Research (Active Member)  
 American Association of Immunologist

## **ORGANIZATION OF INTERNATIONAL MEETING**

1. Organizer and Chairman: 6nd Taiwan-China Immunology Symposia (NTU), held in Taipei, Taiwan 2017
2. Organizer and Chairman: IUBMB Meeting on “Frontiers in Glycoscience: Host-pathogen interactions (Academia Sinica), held in Taipei, Taiwan 2016
3. Organizer and Chairman: 1<sup>st</sup> Glycoimmunology Symposium (Academia Sinica), held in Taipei, Taiwan 2014
4. Organizer and Chairman: 4th Taiwan-China Immunology Symposia (NYMU), held in Taipei, Taiwan 2013
5. Organizer and Chairman: 2<sup>nd</sup> Taiwan-China Immunology Symposia (NYMU), held in Taipei, Taiwan 2011
6. Organizer and Chairman: 1<sup>st</sup> UK-Taiwan INYS (International Network for Young Scientists) Sponsors: British Council, UK and National Science Council, held in Taipei, Taiwan 2008  
 Keynote invited speaker: Sir Roy Anderson (Chancellor of Imperial College, London, UK
7. Organizer and Chairman (with Dr. Takashi Fujita, Kyoto University) : Taiwan (National Science Council)-Japan (Japan Science Technology Institute) Conference for ‘Emerging Infectious Disease’ , held in Kyoto, Japan 2009

## **ADMINISTRATIVE SERVICE**

### **Institutional Service**

- |  |              |
|--|--------------|
| 1. Graduate Recruitment/ admission committee<br>for M.D., Ph, D. graduate students | 1997-present |
| 2. Graduate student recruitment/admission committee                                | 1997-present |
| 3. Graduate Dissertation committees:   | 1997-present |
| 4. P3 laboratory safety committee: chairman  | 2006-present |
| 5. Flow cytometer user committee: chairman   | 2004-present |

### **National Service**

1. Ministry of Science and Technology, Taiwan  
 Extramural grant reviewer for MOST and Department of Defense
2. National Health Research Institute, Taiwan  
 Extramural grant reviewer
3. Academia Sinica, Taiwan, R.O.C.  
 Extramural grant reviewer

## PUBLICATIONS IN PEER-REVIEWED JOURNALS

\*: corresponding author    \*\*: shared corresponding author

1. **Hsieh SL\***, Lin WW. Decoy receptor 3: An endogenous immunomodulator in cancer growth and inflammatory reactions (revision, 2017).
2. Chen ST, Chen JW, Wu WC, Chou TY, Yang CY, **Hsieh SL\***. **CLEC5A is a Critical Innate Immunity Receptor in Host Defense against Listeria Infection** (Nature Communication, revision, 2016)
3. Liu YL, Chen WT, Lin YY, Lu PH, **Hsieh SL\*\***, **Cheng, IH\*\***. Amelioration of amyloid-beta-induced deficits by DcR3 in an Alzheimer's disease models. *Molecular. Neurodegeneration* 2017; in press.
4. Lee PC, Yang LY, Wang YW, Huang SF, Lee KC, Hsieh YC, Yang YY, **Hsieh SL**, Hou MC, Lin HC, Lee FY, Lee SD. Mechanisms of the prevention and inhibition of the progression and development of NASH by genetic and pharmacological DcR3 supplementation. *Hepatology Research*. 2017. DOI: 10.1111/hepr.12863
5. Yeh CC, Horng HC, Chou H, Tai HY, Shen HD, **Hsieh SL**, Wang PH. Dectin-1-Mediated Pathway Contributes to *Fusarium proliferatum* Induced CXCL-8 Release from Human Respiratory Epithelial Cells. *International Journal of Molecular Sciences*. 2017; 18: 624 (doi:10.3390/ijms18030624)
6. Lai JH, Lin YL, **Hsieh SL**. Pharmacological intervention for dengue virus infection. *Biochem J*, 2017; 129: 14-25
7. Teng, O, Chen, ST, Hsu TL, Sia SF, Cole S, Valkenburg SA, Hsu TY, Zheng JT, Tu W, Bruzzone R, Peiris JSM, **Hsieh SL\*\***, **Yen HL\*\***. CLEC5A-mediated enhancement of the inflammatory response in myeloid cells contributes to influenza pathogenicity in vivo. *J. Virology*, 2017; 91: e01813-16
8. Chen MH, Kan HT, Liu CY, Yu WK, Lee SS, Wang JH, **Hsieh SL\***. Serum decoy receptor 3 is a biomarker for disease severity in nonatopic asthma patients. *J. Formosan Med Asso*. 2017; 116: 49
9. Chiu CW, Huang WH, Lin SJ, Tsai MJ, **Hsieh SL\*\***, **Cheng H\*\***. The immunomodulator decoy receptor 3 improves locomotor functional recovery after spinal cord injury. *Journal of Neuroinflammation* **2016** Jun 17;13(1):154. doi: 10.1186/s12974-016-0623-6
10. Huang YL, Chen ST, Liu RS, Chen YH, Lin CY, Huang CH, Su PY, Liao CL, **Hsieh SL\***. CLEC5A is Critical for Dengue Virus-induced Osteoclast Activation and Bone Homeostasis. *J. Mol. Med*, **2016**; DOI: 10.1007/s00109-016-1409-0
11. Li TH, Huang CC, Yang YY, Lee KC, **Hsieh SL**, Hsieh YC, Lin A, Lin HC, Lee SD, Tsai CY. Thalidomide improves the Intestinal Mucosal Injury and suppresses Mesenteric Angiogenesis and Vasodilatation by down-regulating Inflammasomes-related cascades in Cirrhotic Rats. *PLoS ONE* **2016**;\_11 (1): e0147212. doi:10.1371/journal.pone.0147212
12. Tarng DC, Tseng WC, Lee PY, Chiou SH, **Hsieh SL**. Induced Pluripotent Stem Cell-derived Conditioned Medium Attenuates Acute Kidney Injury by Downregulating the Oxidative Stress-Related Pathway in Ischemia-Reperfusion Rats. *Cell Transplant*. **2016**; 25: 517-530

13. Tung YT, Chang CC, Lin YL, **Hsieh SL**, Wang GJ. Development of double-generation gold nanoparticle chip-based dengue virus detection system combining fluorescence turn-on probes. *J Formos Med Assoc.* **2016**; 15;77: 90-98
14. Lin YT, Yen CH, Chen HL, Liao YJ, Lin IF, Chen M, Lan YC, Chuang SY, **Hsieh SL**, Chen YM A. The serologic decoy receptor 3 (DcR3) levels are associated with slower disease progression in HIV-1/AIDS patients. **2015**; 114, 498-503
15. Tsui KH, Li HY, Cheng JT, Sung YJ, Yen MS, **Hsieh SL**, Wang PH. The role of nitric oxide in the outgrowth of trophoblast cells on human umbilical vein endothelial cells. *Taiwanese Journal of Obstetrics & Gynecology.* **2015**, 54: 227-231
16. Huang YL, Tso YT, Pai FS, Chou TY, Mon HC, Hsu TL, Wu CY, Yang WB, Chen CH, Wong CH, **Hsieh SL\***. Human CLEC18 gene cluster contains polymorphic C-type type lectins with differential glycan-binding specificity. *Journal of Biological Chemistry*, **2015**. doi: **10.1074/jbc.M115.649814 jbc.M115.649814**.
17. Weng SC, Shu KH, Wu MJ, Wen MC, **Hsieh SL**, Chen NJ, Tarng DC. Expression of decoy receptor 3 in kidneys is associated with allograft survival after kidney transplant rejection. *Nature Scientific Report* **2015** Sep 3;5:12769. doi: 10.1038/srep12769
18. Huang MT, Chen ST, Wu HI, Chen YJ, Chou TY, **Hsieh SL\***. Modulation of Influenza Virus-induced Macrophage Activation by Decoy Receptor 3 (DcR3) *J Mol. Med.* **2015**, DOI 10.1007/s00109-015-129-1)
19. Lin YC, Huang DY, Wang JS, Lin YL, **Hsieh SL**, Huang KC, Lin WW. Syk involves in NLRP3 inflammasome-mediated caspase-1 activation through adaptor ASC phosphorylation and enhanced oligomerization. *JOURNAL OF LEUKOCYTE BIOLOGY.* **2015**; 97: 825-835
20. Lee PC, Yang YY, Huang CS, **Hsieh SL**, Lee KC, Hsieh YC, Lee TY, Lin HC. Concomitant inhibition of oxidative stress and angiogenesis by chronic hydrogen-rich saline and N-acetylcysteine treatments improves systemic, splanchnic and hepatic hemodynamics of cirrhotic rats. *Hepatology Research.* **2015**; 45:578-588
21. Yang YY, **Hsieh SL**, Lee PC, Yeh YC, Lee KC, Hsieh YC, Wang YW, Lee TY, Huang YH, Chan CC, Lin HC. Long-term cannabinoid type 2 receptor agonist therapy decreases Bacterial Translocation In Rats with cirrhosis and ascites. *JOURNAL OF HEPATOLOGY.* **2014**; 61(5), 1004-1013.
22. Lo TH, Tseng KY, Tsao WS, Yang CY, **Hsieh SL**, Chiu AW, Takai T, Mak TW, Tarng DC, Chen NJ. TREM-1 regulates macrophage polarization in ureteral obstruction. *KIDNEY INTERNATIONAL.* **2014**; doi: 10.1038/ki.2014.205.
23. Chang YL, Chen TH, Wu YH, Chen GA, Weng TH, Tseng PH, **Hsieh SL**, Fu SL, Lin CH, Chen CJ, Chu CL, Chio II, Mak TW, Chen NJ. A novel TLR2-triggered signalling crosstalk synergistically intensifies TNF-mediated IL-6 induction. *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE.* **2014**; 18(7), 1344-1357.
24. Hsu WC, Yang FC, Lin CH, **Hsieh SL**, Chen NJ. C5L2 is required for C5a-triggered receptor internalization and ERK signaling. *CELLULAR SIGNALLING.* **2014**; 26(7):1409-19. (SCI) (IF: 4.304; SCI ranking: 33.5%)

25. Tung YL, Wu MF, Wang GJ\*\*, **Hsieh SL\*\***. Nanostructured electrochemical biosensor for the detection of the weak binding between the Dengue Virus and the CLEC5A receptor. **2014**; doi: 10.1016/j.nano.2014.03.009
26. Chen DY, Yao L, Chen YM, Lin CC, Huang KC, Chen ST, Lan JL\*\*, **Hsieh SL\*\*** A Potential Role of CLEC5A/Myeloid DAP12-Associating Lectin (MDL-1) in the Regulation of Inflammation in Rheumatoid Arthritis Patients. **2014**. *PLoS ONE* 9(1): e86105. doi:10.1371/journal.pone.0086105 \*\*shared correspondence author
27. Hsu WC, Yang FC, Lin CH, **Hsieh SL**, Chen NJ. C5L2 is required for C5a-triggered receptor internalization and ERK signaling. *Cellular Signalling*. 2014; 26:1409–1419
28. Huang BS, Sun HD, Hsu YM, Chang WH, Horng HC, Yen MS, Cao KC, **Hsieh SL**, Wang PH (2014). Clinical presentation and outcome of adult-type granulosa cell tumors: Aretrospective study of 30 patients in a single institute. *J Chin Med Assoc*. 2014 Jan;77(1):21-5. doi: 10.1016/j.jcma.2013.09.007. Epub 2013 Oct 23
29. Hsu TL, Lin G, Koizumi A, Brehm K, Hada K, Chuang PK, Wong CH, **Hsieh SL**, Diaz A, The surface carbohydrates of the Echinococcus granulosus larva interact selectively with the rodent Kupffer cell receptor. *Molecular & Biochemical Parasitology*. **2013**; 192: 55-59
30. Wu NL, Huang DY, **Hsieh SL**, Hsiao CH, Lee TA, Lin WW. EGFR-driven up-regulation of decoy receptor 3 in keratinocytes contributes to the pathogenesis of psoriasis. *Biochim Biophys Acta*. **2013**; 1832(10):1538-48.
31. Wu MF, Chen ST, **Hsieh SL\***. Distinct Regulation of Dengue Virus-Induced Inflammasome Activation in Human Macrophage Subsets (review article) *J Biomed Sci*. 2013; 20:36. doi: 10.1186/1423-0127-20-36.
32. Tseng WC, Yang, WC, Yang AH, **Hsieh SL**, Tarng, DC. Expression of TNFRSF6B in kidneys is a novel predictor for progression of chronic kidney disease. *Modern Pathology*. 2013; ; doi:10.1038/modpathol.2013.29
33. Yang CY, Chen JP, Tsai TF, Tsai YC, Tsai CY, Liang PH, Hsu TL, Wu CY, Netea MG, Wong CH, **Hsieh SL\***. CLEC4F is an inducible C-type lectin in F4/80-positive cells and is involved in alpha-galactosylceramide presentation in liver. *PLoS One*, 2013; 8: e65070
34. Shu CC, Wu MF, Hsu CL, Huang CT, Wang JY, **Hsieh SL**, Yu CJ, Lee LN, Yang PC. Apoptosis-associated biomarkers in tuberculosis: promising for diagnosis and prognosis prediction. *BMI Infectious Diseases* 2013; 13: 45
35. Lee WL, Lee FK, Su WH, Tsui KH, Kuo CD, **Hsieh SL**, Wang PH. Hormone therapy for younger patients with endometrial cancer. *Taiwanese journal of Obstetrics & Gynecology* 2012; 51: 495
36. Wu MF, Chen ST, Yang AH, Lin WW, Lin YL, Chen NJ, Tsai IS, Li L, **Hsieh SL\***. CLEC5A is critical for dengue virus-induced inflammasome activation in human macrophages. *Blood* 2013; **121**: 95-106
37. Chen ST, Liu RS, Wu MF, Lin YL, Chen SY, Tan DTW, Chou TY, Tsai IS, Li L, **Hsieh SL\***. *CLEC5A Regulates Japanese Encephalitis Virus-Induced Neuroinflammation and Lethality*. *PLoS Pathogens* 2012; 8(4): e1002655. doi:10.1371/journal.ppat.1002655. **FACULTY OF 1000 (f1000 Factor 8.0-must read)**
38. Huang ZM, Kang JK, Chen CY, Tseng TH, Chang YW, Chang CY, Tai SK, **Hsieh SL**, Leu CM. *Decoy receptor 3 suppresses TLR2-mediated B cell activation by targeting NF-kB*. *Journal of Immunology* 2012; **188**: 5867
39. Tai SK, Chang HC, Lan KL, Lee CT, Yang CY, Chen NJ, Chou TY, Tarng DC, **Hsieh SL\***. *Decoy receptor 3 enhances tumor growth via induction of tumor-associated macrophages*. *J Immunol* 2012; **188**:2461-2471.

40. Kuo SC, Lee YT, Yang SP, Chen CP, Chen TL, **Hsieh SL**, Siu LK, Fung CP. *Eradication of multidrug-resistant Acinetobacter baumannii from the respiratory tract with inhaled colistin methanesulfonate: a matched case-control study*. Clin Microbiol Infect 2012; **18 (9)**: 870-876
41. Hwang SJ, Chang SC, Yu CJ, Chan YJ, Chen TJ, **Hsieh SL**, Lai HY, Lin MS, Liu JY, Ong G, F Roman, M Drame, HL Bock, Yang PC. *Immunogenicity and safety of an AS03A-adjuvanted H5N1 influenza vaccine in a Taiwanese population*. Journal of the Formosan Med. Asso. 2011; **110**: 780-786.
42. Tai SK, Yang MH, Chang SY, Chang YC, Li WY, Tsai TL, Wang YF, Chu PY, **Hsieh SL\***. *Persistent Krüppel-like factor 4 expression predicts progression and poor prognosis of head and neck squamous cell carcinoma*. Cancer Sci 2011; **102(4)**: 895-902
43. Chen ST, Lin YL, Huang MT, Wu MF, Hsieh SL. *Targeting C-type lectin for the treatment of flavivirus infections*. [Adv Exp Med Biol](#). 2011;705:769-76. doi: 10.1007/978-1-4419-7877-6\_40
44. Lin WW, **Hsieh SL\***. *Decoy Receptor 3: A Pleiotropic Immunomodulator and Biomarker for Inflammatory Diseases, Autoimmune Diseases and Cancer*. Biochemical Pharmacology 2011; **81**: 833-847
45. Lee RT, Hsu TL, Huang SK, **Hsieh SL**, Wong CH, Lee YC. *Survey of Immune-related, Mannose/fucose-binding C-Type Lectin Receptors Reveals Widely Divergent Sugar-binding Specificities*. Glycobiology 2010; **21**: 512-520. (SCI: Impact factor 5.520)
46. Liu PF, Shi WY, Zhu WH, Jeffery W. Smith, **Hsieh SL**, Richard L. Gallo, Huang CM. *Vaccination targeting surface FomA of Fusobacterium nucleatum against bacterial co-aggregation: Implication for treatment of periodontal infection and halitosis*. VACCINE 2010; **28(19)**: 3496-3505 (SCI: Impact factor 3.572)
47. Kuo WC, Yang KT, **Hsieh SL**, Lai MZ. *Ezrin is a negative regulator of death receptor-induced apoptosis*. Oncogene 2010; **29**: 1374-1383.
48. Hsu TL, Cheng SC, Yang WB, Chin SW, Chen BH, Huang MT, **Hsieh SL\*\***, Wong CH\*\* *Profiling Carbohydrate-Receptor Interaction with Recombinant Innate Immunity Receptor-Fc Fusion Proteins*. J Biol Chem 2009; **284**: 33479-34489
49. Chen CY, Yang KY, Chem MY, Chen HY, Lin MZ, Lee YC, Perng RP, **Hsieh SL**, Yang PC, Chou TY. *Decoy receptor 3 Levels in peripheral blood predict outcomes of acute respiratory distress syndrome*. Am J Respir Crit Care Med 2009; **180**: 751-760 (SCI: Impact factor **9.79**)
50. Chao WW, Kuo YH, **Hsieh SL**, Lin BF. *Inhibitory effects of ethyl acetate extract of Andrographis paniculata on NF- $\kappa$ B trans-activation activity and LPS-induced acute inflammation in mice*. Evid Based Complement Alternat Med 2009; [Epub ahead of print] (SCI: Impact factor 2.964)
51. Wu MF, Yang CY, Lin TL, Wang JT, Yang FL, Wu SH, Hu BS, Chou TY, Tsai MD, Lin CH, **Hsieh SL\***. *Humoral immunity against capsule polysaccharide protects host from magA<sup>+</sup> Klebsiella pneumoniae-induced lethal disease through evading TLR4 signaling*. Infection and Immunity 2009; **77**: 615-621
52. Tsai CM, Chiu YK, Hsu TL, Lin IY, **Hsieh SL**, Lin KI. *Galectin-1 Promotes Immunoglobulin Production during Plasma Cell Differentiation*. J Immunol 2008; **181**: 4570-79 (SCI: Impact factor **6**)
53. Chang PMH, Chen PM, **Hsieh SL**, Tzeng CH, Liu JH, Chiou TJ, Wang WS, Yen CC, Gau JP, Yang MH. *Intl. Expression of a soluble decoy receptor 3 in patients with diffuse large B-cell lymphoma predicts clinical outcome*. Intl J Oncology 2008; **33**: 549-554 (SCI: Impact factor **2.234**)



54. Chen ST, Lin YL, Huang MT, Wu MF, Cheng SC, Lei HY, Lee CK, Chiou TW, Wong CH, **Hsieh SL\***. *CLEC5A is critical for dengue virus-induced lethal disease*. Nature 2008; **453**: 672-5. **FACULTY OF 1000-BIOLOGY (f1000 Factor 9.0-exceptional)**
55. **Hsieh SL\***. *Decoy Receptor 3 (DcR3): A Pleiotropic Immunomodulator*. Blood 2008; **112**: 916-917
56. Chang YC, Chen TC, Lee CT, Yang CY, Wang HW, Wang CC, **Hsieh SL\***. *Epigenetic control of MHC-II expression in tumor-associated macrophages by decoy receptor 3*. Blood 2008; **111**: 5054-63
57. You RI, Chang YC, Chen PM, Wang WS, Hsu TL, Yang CY, Lee CT, **Hsieh SL\***. *Apoptosis of dendritic cells induced by decoy receptor 3 (DcR3)*. Blood 2008; **111**: 1480-8
58. Lee CS, Hu CY, Tsai HF, Wu CS, **Hsieh SL**, Liu LC, Hsu PN. *Elevated serum decoy receptor 3 with enhanced T cell activation in systemic lupus erythematosus*. Clin Exp Immunol 2008; **151**(3): 383-90
59. Wang SK, Liang PH, Astronomo RD, Hsu TL, **Hsieh SL**, Burton DR, Wong CH. *Targeting the carbohydrates on HIV-1: Interaction of oligomannose dendrons with human monoclonal antibody 2G12 and DC-SIGN*. Proc Natl Acad Sci USA 2008; **105**(10): 3690-5
60. Chen ML, A. K. Adak, Yeh NC, Yang WB, Chuang YJ, Wong CH, Hwang KC, Hwu JRR, **Hsieh SL**, Lin CC. *Fabrication of an Oriented Fc-Fused Lectin Microarray through Boronate Formation*. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 2008; **47**: 8627-8630
61. How CK, Chern CH, Wu MF, Wang LM, Huang CI, Lee CH, **Hsieh SL\***. *Expression of the triggering receptor expressed on myeloid cells-1 mRNA in a heterogeneous infected population*. Int J Clin Pract 2007: 1-8
62. Lian WN, Chang CH, Chen YJ, Dao RL, Luo YC, Chien JY, **Hsieh SL**, Lin CH. *Intracellular delivery can be achieved by bombarding cells or tissues with accelerated molecules or bacteria without the need for carrier particles*. Exp Cell Res 2007; **313**(1): 53-64
63. Tang CH, Hsu TL, Lin WW, Lai MZ, Yang RS, **Hsieh SL\*\***, Fu WM\*\*. *Attenuation of bone mass and increase of osteoclast formation in decoy receptor 3 transgenic mice*. J Biol Chem 2007; **282**(4): 2346-54
64. Ho CH, Hsu CF, Fong PF, Tai SK, **Hsieh SL**. and Chen CJ. *Epstein-Barr virus transcription activator Rta upregulates decoy receptor 3 expression by binding to its promoter*. J Virol 2007; **81**(9): 4837-47
65. Ka SM, Sytwu HK, Chang DM, **Hsieh SL**, Tsai PY, Chen A. *Decoy receptor 3 ameliorates an autoimmune crescentic glomerulonephritis model in mice*. J Am Soc Nephrol 2007; **18**(9): 2473-85
66. Wei CY, Chou YH, Ho FM, **Hsieh SL**, Lin WW. *Signaling pathways of LIGHT induced macrophage migration and vascular smooth muscle cell proliferation*. J Cell Physiol 2006; **209**(3): 735-43
67. You RI, Chen MC, Wang HW, Chou YC, Lin CH, **Hsieh SL\***. *Inhibition of lymphotoxin-beta receptor-mediated cell death by survivin-DeltaEx3*. Cancer Res 2006; **66**(6): 3051-61
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## BOOKS OR CHAPTER

1. 登革熱的台灣經驗:從流行病學及臨床到基礎科學的新視野:第五章:登革致病機制: 第六節: C型凝集素CLEC5A在登革致病機制的角色. Book Chapter (2016)
2. **Shie-Liang Hsieh\*** “C-Type Lectin Receptors in Immunity” Chapter 3: C-type lectin member 5A. 2016 (editor: Sho Yamasaki) Springer Publisher Ltd. ISBN 978-4-431-56015-9 (BOOK Chapter)
3. Szu-Ting Chen, Yi-Ling Lin, Ming-Ting Huang, Ming-Fang Wu, **Shie-Liang Hsieh\***(2011). “The Molecular Immunology of Complex Carbohydrates-3” Chapter 40: Targeting C-Type Lectin for the Treatment of Flavivirus Infections. Springer Publisher Ltd. ISBN 978-1-4419-7877-6 (BOOK Chapter)

## **PATENT**

1. ‘Placenta derived apoptosis factor (PDAF) (US patent 6,689,867 B1)
2. Composition and methods for identify response targets and treating flaviviral infection response” (U.S patent 7,943,134 B2/May 17 11, 2011)
3. Methods and reagents for the analysis and purification of polysaccharides (US patent 7998482/Aug 16, 2011).
4. 用於偵測 目標反應與治療黃病毒感染症狀之化合物之及方法(中華民國 403886 號, 2013)
5. "METHOD FOR TREATING INFLUENZA A VIRUS INFECTION" PCT & Taiwan (pending)
6. Recombinant decoy receptor 3 protein for the treatment of acute spinal injury PCT and USA (pending)
7. “Recombinant decoy receptor 3 protein for the treatment of Alzheimer’s disease” PCT and USA (pending, 2016)

## **INVITED LECTURES / PRESENTATION**

1. Special IUBMB meeting ‘Frontiers in Glycoscience: Host-pathogen interactions’, IBMS, Academia Sinica Taipei, Taiwan (Dec. 12-14, 2016)
2. 北京首都醫科大學特別演講, Beijing China (Dec. 8, 2016)
3. 第三屆海峽兩岸生命科學論壇, Shanghai China (Nov. 6-9, 2016)
4. 中華民國免疫學會 2016 年會員大會暨學術研討會, 台中中山醫學大學 (Oct. 30, 2016)
5. Bilateral Symposium of Genomic Research Center, Academia Sinica and Graduate School of Science, Osaka University, Japan (Oct. 4-6, 2016)
6. International Advanced Immunology Summer School, China Medical University (Aug. 13-14, 2016)
7. 第一屆長庚體系免疫研究團隊年會 (Aug. 05, 2016)
8. American Association of Immunology: Guest symposium (May 13-17, 2016, Seattle)
9. Pasteur’s Institute, Shanghai (June 1, 2016)
10. International conference for vector-borne diseases in Shenchen, China (May 30th-June 1st 2016).
11. Institute of Molecular and Genomic Medicine, NHRI (Apr. 14, 2016)

12. 登格熱疾病研究, 彰化基督教醫療財團法人彰化基督教醫院 (Jan. 29, 2016)
13. Infections of the Nervous System” Gordon Research Conference, Hong Kong (June 14-19, 2015)
14. FIMSA (The Federation of Immunological Societies of Asia Oceania) Singapore (June 30-July 3, 2015)
15. Annual Scientific Meeting of Flow Cytometry, Hong Kong (Mar. 22, 2014)
16. 第四屆海峽兩岸四地免疫學研討會(Apr. 28-29, 2014)
17. SATU International Dengue Symposium, Tainan (Aug. 28-29, 2014)
18. 兩岸三地生物醫學高峰論壇, 南京醫科大學 (Sep. 20-23, 2014)
19. 15<sup>th</sup> IUBMB 24<sup>th</sup> FAOBMB-TSBMB International Conference Academia Sinica (Oct. 21-26, 2014)
20. “Glycoimmunology Conference” Chairman and Speaker, Academia Sinica (Dec. 2-4, 2014)
21. 第 21 屆細胞及分子生物新知研討會-墾丁冬令營 (Jan. 30, 2013)
22. Regeneron Pharmaceuticals, Inc located in New York, USA (May 21, 2013)
23. Abbvie Bioresearch Center, Worcester, MA, USA (May 7-8, 2013)
24. Keystone meeting: The Innate Immune Response in the Pathogenesis of Infectious Disease in Brazil (May 10-15, 2013)
25. Gordon Research Conferences on Carbohydrates (Mount Snow Resort in West Dover VT ,USA (June16-21, 2013)
26. 14<sup>th</sup> SCBA International Symposium to be held at Jianguo Hotel, Xi’an, China (July 18-22, 2013)
27. 海峽兩岸免疫細胞生物學研討會, 烏魯木齊, China (July 1-6, 2013)
28. 第二屆海峽兩岸熱帶醫學研討會, Beijing, China (Oct. 26-29, 2013)
29. Singapore international conference on dengue and emerging infections, Singapore (Nov.23 , 2012)
30. 4<sup>th</sup> Asia Communications of Glycobiology and Glycotechnology ACGG4 (Oct. 27, 2012)
31. 12th International Symposium on Dendritic Cells (DC2012) in Daegu in Korea (Oct. 7, 2012)
32. Taiwan-India Joint Symposium in ISF College of Pharmacy, Moga, Punjab, India (Dec. 14, 2011)
33. GSK Research Institute, Shanghai (Nov. 22, 2011)
34. Institute for Tropical Diseases, Novartis, Singapore (Sep. 01, 2011)
35. 13th International SCBA conference in Guangzhou, China, (July 25, 2011)
36. 6th Asian-Pacific Organization for Cell Biology Congress, Philipine (Feb. 26, 2011)
37. Pfizer Pharama Inc, Cambridge, Boston, USA (Feb. 8, 2011)
38. The 4th Joint Symposium between NYMU and UCSD (Dec. 8, 2010)
39. NHRI/ International Conference of Inflammation, Cardiometabolic Diseases and Cancer (Nov. 7, 2010)
40. HKU - Pasteur Research Centre / 3rd HKU - PASTEUR IMMUNOLOGY COURSE (Nov. 2, 2010)
41. UCSD /Academia Sinica Symposium on Frontiers in Biosciences, San Diego, USA (Sep. 17,

- 2010)
42. Pfizer Pharma, Boston, USA (Feb. 09, 2010)
  43. International Meeting on Emerging Infectious Disease, Duke-NSU, Singapore (Feb. 08, 2010)
  44. NSC (Taiwan)-JST (Japan) Symposium, Kyoto University, Japan (Nov. 15, 2009)
  45. Department of Molecular and Cell Biology, Tokyo University, Japan (July 13, 2009)
  46. Department of Microbiology and Immunology, Stanford University, Palo Alto, hosted by Yue-Show Chien (Jan. 30, 2009)
  47. Glycobiology Conference, 2008, Fort Worth, Texas (Nov. 12-15, 2008)
  48. Federation of Immunological Societies of Asia-Oceania, Taipei (Oct. 18, 2008)
  49. Novartis for Tropical Diseases, Singapore (Oct. 13, 2008)
  50. EHRLICH II, 2nd World Conference on Magic Bullets, Nurnberg, Germany (Oct. 3, 2008)
  51. Schering-Plough Biopharma, Palo Alto, CA (Sep. 11, 2008)
  52. MRC Immunochemistry Unit, Department of Biochemistry / Immunochemistry 2008 at Oxford (July 18, 2008)
  53. Académie Royale de Médecine de Belgique, Belgium (July 18, 2008)
  54. Novartis, Institute for Tropical Diseases (June 30, 2008)
  55. Second Joint Symposium of UCSD and NYMU, San Diego (Apr. 11, 2008)
  56. City of Hope, Los Angeles USA (Feb. 19, 2008)
  57. International Symposium on Molecular Immunology of Complex Carbohydrates –3, Academia Sinica (July 8, 2007)
  58. First Joint Symposium of UCSD and NYMU (Mar. 21, 2007)