

CURRICULUM VITAE

NAME: Su-Ming Hsu, M.D.
DATE OF BIRTH: January 28, 1949
PLACE OF BIRTH: Taiwan
MARITAL STATUS: Married (Pei-Ling Hsu, Ph.D. Faculty, UAMS, retired);
one child, Eugene (Ph.D. candidate, MIT)
PRESENT ADDRESS:
National Taiwan University College of Medicine

EDUCATION:

1967 - 1974 National Taiwan University, College of Medicine

BRIEF CHRONOLOGY OF EMPLOYMENT:

1970 - 1974 Research fellow
Institute of Biochemistry, National Taiwan
University College of Medicine, Taipei, Taiwan
1973 - 1974 Intern
National Taiwan University Hospital, Taipei, Taiwan
1974 - 1976 Military Service, Taiwan
1976 - 1977 Resident, Internal Medicine
National Taiwan University Hospital, Taipei, Taiwan
1977 - 1980 Resident, Pathology
Rhode Island Hospital, Brown University,
Providence, Rhode Island
1980 - 1981 Chief Resident and Teaching Fellow
Rhode Island Hospital and Brown University
Providence, Rhode Island
1981 - 1984 Medical Staff Fellow, Laboratory of Pathology, National
Cancer Institute, National Institutes of Health, Bethesda,
Maryland
1984 - 1990 Assistant and Associate Professor
Department of Pathology and Laboratory Medicine
University of Texas Health Science Center at Houston, Hou-
ston, Texas
1990 - 1995 Professor, Director of Hematopathology and Immunopathol-
ogy, Department of Pathology, University of Arkansas for
Medical Science, and
Staff Pathologist, John L. McClellan Memorial Veterans
Hospital, Little Rock, Arkansas
1995 - date Professor, Graduate Institute of Immunology
Professor, Department of Pathology
Adjunct professor, Department of Surgery
National Taiwan University College of Medicine
Medical Staff, Department of Oncology

1996 - 2001 Associate Dean for Research and Development,
National Taiwan University College of Medicine
1997 - 2000 Professor and Chairman, Department of Pathology
1997 - 2004 Vice-Superintendent for Research, NTU Hospital
National Taiwan University College of Medicine
2003 - 2008 CEO, Hsin-Chu BioMedical Science Park
2005 - Professor, College of Public health
Professor, College of Business Management

SOCIETIES:

American Association of Investigative Pathology
Association of Clinical Scientists
American Society of Hematology

EDITORIAL AND REVIEW BOARD:

Journal of Biomedical Science (Taiwan)
NIH Pathology Study Section B, USA (1992-1993)
NIH SBIR Study Section, USA (1993)
Journal of Formosan Medical Association (1997-)

HONORS AND OTHER SPECIAL SCIENTIFIC RECOGNITION:

- Young man of the year, 1976, Taiwan
- Awarded US Patent 4,684,609 (Method and substance for the enhanced labelling of cellular material)
- American Men & Women of Science, USA, 1989
- SCI Citation Record: > 15,000 times (Among the top 100 most cited Scientist in the world, 1985-)
- Consultant, National Institutes of Health, USA
- Reviewer in more than 20 Journals
- Foundation for The Advancement of Outstanding Scholarship Award
- The Executive Yuan Outstanding Scholarship Science Award, Taiwan, 1998
- Scientific Advisor to the President, Taiwan

BOARD CERTIFICATION:

American Board of Pathology, Anatomic Pathology

RESEARCH INTERESTS:

Hematopathology, Tumor biology,
Immunohistochemistry, Immunopathology,
Experimental Pathology, Pathophysiology

INVITED REVIEW ARTICLES OR CHAPTERS

1. Foon, K.A., Bunn, P.A., Schroff, R.W., Mayer, D., Hsu, S.-M., Sherwin, S.A., and Oldham, R.K.: Monoclonal antibody therapy of chronic lymphocytic leukemia and cutaneous T-cell lymphoma: Preliminary observations. In Langman, R.E., Trowbridge, I.S., and Dulbecco, R. (Eds.): *Monoclonal Antibodies and Cancer*. New York, Academic Press, 1983, pp. 39-52.
2. Greene, W.C., Waldmann, T.A., Cossman, J., Hsu, S.-M., Neckers, L.M., Marshall, S.L., Jensen, J.P., Bakhshi, A., Leonard, W.J., Depper, J.M., Jaffe, E.S., and Korsmeyer, S.J.: Hairy cell leukemia: A malignant expansion of B cells which express Tac antigen. In Marks, P. and Golde, D. W. (Eds.): *Normal and Neoplastic Hematopoiesis*. New York, Alan R. Liss, Inc., 1983, pp. 501-511.
3. Hsu, S.-M. and Raine, L.: Use of avidin-biotin-peroxidase complex (ABC) in pathology. In DeLellis, R.A. (Ed.): *Advances in Immunohistochemistry*. Masson Pub., USA, pp. 31-42, 1984
4. Hsu, S.-M.: Immunoperoxidase techniques using the avidin-biotin system. In Ngo, T.T., and Lenhoff, H.M. (Eds): *Enzyme mediated immunoassays*. pp. 467-476, Plenum Pu. Co., New York, 1985.
5. Hsu, S.-M., Pescovitz, M., and Hsu, P.-L.: Monoclonal antibodies for histiocyte/ interdigitating reticulum cell-related lymphomas. In Reisfeld, R.A., and Sell, S. (Eds.): *Monoclonal Antibodies and Cancer Therapy*. UCLA Symposium on Molecular and Cellular Biology, Vol. 27, 53-62. Alan R. Liss Inc., NY, 1985.
6. Braziel, R.M., Hsu, S.-M., and Jaffe, E.S.: Lymph nodes, spleen, and thymus. In Spicer, S.S., Garvin, A.J., and Hennigar, G.R. (Eds.): *Application of Histochemistry to Pathologic Diagnosis*. New York Marcel Dekker, Inc., 1986, pp. 203-256.
7. Hsu, S.-M.: Immunohistochemistry in lymphomas. Review and outlook. *Hematol. Pathol.* 2: 91-105, 1988.
8. Hsu, S.-M.: Tumors of macrophages. In *Lymphoproliferative disease*. Jones, D.B. and Wright, D.H. (Eds.) MTP Press Limited, Lancaster, pp 165-186, 1990.
9. Hsu, S.-M.: Avidin-peroxidase conjugates and complexes for histochemical localization. In *Methods in Enzymology*, eds., Wilcheck, M and Bayer, E.A., (Eds.), Academic Press, Inc., Orlando, FL., 184: 357-363, 1990.
10. Hsu, S.-M.: The use of avidin-biotin interaction in immunohistochemistry and immuno-electron microscopy. In *Electron Microscopic Cytochemistry and Immunocytochemistry in Biomedicine*. Ogawa, K. and Barka, T. (Eds.), CRC Press, Inc., Boca Raton, FL., 1991
11. Hsu, S.-M.: The use of avidin-biotin interaction in immunohistochemistry. In *Immunocytochemistry*. Cuello, C.A. (Ed.), John Wiley & Sons, New York, pp 169-180, 1993

12. Hsu, S.-M., Waldron, J.A. Jr., Hsu, P.-L., and Hough, A.J. Jr.: Cytokines in malignant lymphomas - A review and prospective evaluation. *Hum. Pathol.*, 24:1040-1057, 1993
13. Hsu, S.-M. and Hsu, P.-L.: The nature of Reed-Sternberg cells - Phenotype, genotype, and other properties. *Critical Reviews in Oncogenesis*, 5:213-246, 1994
14. Hsu, S.-M., and Hsu, P.-L.: Phenotypic expression of Hodgkin's disease: Relationship to biologic, immunologic and functional properties of Reed-Sternberg Cells. In *Tumor Markers*, eds., Garrett C.T., and Sell S. 289-334, 1995.
15. Ho, C.-C., Huang, P.-H., Yang, P.-C., and Hsu, S.-M.: Role of immunocytochemical expression of calveolin-1 in lung carcinoma. In *Handbook of immunohistochemistry and in situ hybridization of human carcinomas*, volume 1: Molecular genetics; lung and breast carcinomas.
16. 余筱莉, 蕭子健、林啟萬、許世明: 台灣與日本、歐盟、美國等水產品出口國之藥品限定探討。 *農政與農情* 194:55-59, 2008

ABSTRACTS, LETTERS AND PRESENTATIONS IN NATIONAL AND INTERNATIONAL MEETINGS

17. Ley, T.J., Keogh, B.A., **Hsu, S.-M.**, Ferris, W., Crystal, R., and Nienhuis, A.W.: Hematologic manifestations of sarcoidosis. *Blood*, 60 (Suppl. 1): 37a, 1982.
18. Raine, L.M., **Hsu, S.-M.**: Comparison of peroxidase-anti-peroxidase and avidin-biotin complex methods with radioimmunoassay antibodies. *Am. J. Clin. Pathol.*, 78: 796, 1982.
19. Cotelingam, J.D., Witebsky, F.G., **Hsu, S.-M.**, Blaese, M.R., and Jaffe, E. S.: Malignant lymphomas in patients with the Wiskott-Aldrich syndrome. *Lab. Invest.*, 48: 18A, 1983.
20. **Hsu, S.-M.**: The author's reply -- Russell bodies - immunoglobulins ? May be. *Am. J. Clin. Pathol.*, 79:265-266, 1983.
21. Jauregui, H., Langner, B., Raine, L., **Hsu, S.-M.**, and Thayer, W., Jr.: Lectin binding in normal and neoplastic gastric tissue. *Lab. Invest.* 48: 41A, 1983.
22. Korsmeyer, S., Greene, W., Neckers, L., Cossman, J., **Hsu, S.-M.**, Marshall, S., Jensen, J., Jaffe, E.S., and Waldmann, T.: Rearrangement and expression of immunoglobulin genes and apparent expression of the interleukin-2 receptor in hairy cell leukemia. *American Federation for clinical Research*, Washington, D.C., April 29- May 2, 1983.
23. Bunn, P.A., Foon, K.A., Schroff, R.W., **Hsu, S.-M.**, Longo, D.L., Winkler, C. F., and Oldham, R. K.: T101 monoclonal antibody (MoAb) therapy for T-cell lymphomas. *Blood* 62: 210a, 1984.
24. Jaffe, E.S., Longo, D.L., Cossman, J., **Hsu, S.-M.**, Arnold, A., and Korsmeyer, S.J.: Diffuse B-cell lymphomas with T-cell predominance in patients with follicular lymphoma or "pseudo T-cell lymphoma". *Lab. Invest.* 50: 27A-28A, 1984.
25. Zhang, H.-Z., Martin, S.E., Jaffe, E.S., **Hsu, S.-M.**, Magyarosy, E., and Chu, E.W.: Use of immunocytochemistry with T and B lymphocyte markers in the cytological diagnosis of non-Hodgkin's lymphoma. *Lab. Invest.* 50: 69A, 1984.
26. **Hsu, S.-M.**, Hsu, P. L.: Monoclonal antibodies for histiocyte/interdigitating reticulum cell-related lymphomas. UCLA Symposia on Molecular and Cellular Biology. *J. Cellular Biochem., suppl.* 9A:35, 1985.
27. **Hsu, S.-M.**: Specificity of Leu M1 antibody for Reed-Sternberg cells. *Am. J. Clin. Pathol.*, 84: 408-409, 1985.
28. **Hsu, S.-M.**: Specificity of anti-Leu M1 for diagnosis of Hodgkin's disease. *Am. J. Clin. Pathol.*, 84: 683-684, 1985.
29. **Hsu, S.-M.** and Ho, Y.-S.: Hairy cell leukemia -still a B cell neoplasm. *Am. J. Clin. Pathol.* 85: 252-253, 1986.

30. **Hsu, S.-M.**, Ho, Y.-S. and Hsu, P.-L.: Expression of activated interdigitating reticulum cells antigen (IRac) by H-RS cells. *Lab. Invest.* 54:27A, 1986.
31. Endoh, H., **Hsu, S.-M.**, Chakraborty, S., Imai, H., Sell, S. and Rifai, A.: Expression of IgA immune complex specific receptor on human macrophage. *Fed. Proc.* 86:1002, 1986.
32. **Hsu, S.-M.** and Zhao, X.: Reed-Sternberg-like cells in Rechter's syndrome express granulocytic-associated antigen (Leu M1). *Am. J. Clin. Pathol.*, 85: 756-757, 1986.
33. Santomaria, M., LLmas, L. and **Hsu, S.-M.**: Expression of sialylated Leu M1 antigen in histiocytosis X. *Am. J. Clin. Pathol.*, Abstract, p. 8.
34. Krupen, K., Goldstein, R., Hsu, P.-L., Crawford, Y., Zhao, X., Dunc, M. and **Hsu, S.-M.**: Aberrant T cell marker expression and T cell gene rearrangements in lymphoma/leukemia cell lines derived from myelocyte/monocyte/histiocyte. *Clin. Res.* 35:459A, 1987.
35. Krupen, K., Zhao, X., Brown, L., Lachman, L. and **Hsu, S.-M.**: Expression of interleukin-1 in Reed-Sternberg cells. *Clin. Res.*, 35:609A, 1987.
36. Sanduja, S.K., **Hsu, S.-M.**, Zhao, X., Hatzakis, H., and Wu, K.K.: Phorbol ester selectively stimulates 15-hydroxy eicosatetraenoic acid (15-HETE) production by cultured Reed-Sternberg cells. *Blood.*, 70:267a, 1987.
37. Sanduja, S.K., **Hsu, S.-M.**, Hatzakis, H., and Wu, K.K.: Stimulation by phorbol ester of 15-HETE synthesis in Hodgkin cell line (KM-H2) is related to cell differentiation. *FASEB J.*, 2:A1262, 1988.
38. Pescovitz, M.D., **Hsu, S.-M.**, Shimada, S., Katz, S., and Sachs, D.H.: CD4/CD8 dual positive peripheral porcine T cells. Association for Academic Surgery, 22nd Annual Meeting, Salt Lake City, Utah, November 16-19, 1988.
39. Sanduja, S.K., **Hsu, S.-M.**, and Wu, K.K.: Production of thromboxane B₂ and PGE₂ in a monocytic cell line ML-1. Presented in *Keystone Symposium.*, 1989.
40. Tseng, C.K., **Hsu, S.-M.**, Hughes, M.A., Albright, G., Sell, S.: The characterization of a rabbit cell line established by human T cell leukemic virus type I (HTLV-I) transformation. *AACR meeting.*, San Fransico, CA, 1989.
41. Hsu, S.M.: The never-ending controversies of Hodgkin's disease. *Blood*, 75:1742-1743, 1990.
42. Willis, D.M., **Hsu, S.-M.**, and Papasozomenos, S.Ch.: Angioendothelimitosis in brain. American Association of Neuropathologists, San Francisco, CA, June 14-17, 1990.
43. Sanduja, S.K., **Hsu, S.-M.**, Metha, K., and Wu, K.K.: Upregulation of Arachidonic acid metabolism in myelomonocytic cells and Hodgkin's tumor cells after phorbol ester-induced differentiation. *Keystone meeting*, CO, 1990.

44. **Hsu, S.-M.**, Lin, J., Xie, S.-S., Hsu, P.-L., and S. Rich: Production of TGF- β 1 and TGF- β 2 in Hodgkin's disease. Eightieth Annual Meeting of the International Academy of Pathology, Chicago, IL., *Lab. Invest.*, 64:74A, 1991.
45. Eidt, J., Cook, J., **Hsu, S.-M.**, Hardin, J., Marlar, R., Cook, C., and Fink, L.: Thrombomodulin (TM) activity and immunohistochemistry and mRNA localization after balloon catheter intimal stripping of the rabbit heart. *FASEB.*, 5:A1016, 1991.
46. **Hsu, S.-M.**, and Hsu, P.-L.: Cytokine network in Hodgkin's disease and its pathologic correlation. In *Models and hypothesis of pathogenesis of Hodgkin's disease*. Second International Symposium on Hodgkin's disease. Oct 3-5, 1991, Cologne, Federal Rep of Germany.
47. **Hsu, S.-M.**, and Hsu, P.-L.: Hodgkin's neoplastic cells, macrophages, and antigen- presenting cells. In *Prognostically relevant histopathological classification of HD and related lymphomas on the basis of clinical cases*. Second International Symposium on Hodgkin's disease. Oct 3-5, 1991, Cologne, Federal Rep of Germany.
48. Schaefer, R., Collins, C.L., Cook, C.D., Granger, J., Fink, L., and **Hsu, S.-M.**: Thrombomodulin expression in malignant pleural mesothelioma and pulmonary adenocarcinoma. In International Conference on *Mesothelial cell and mesothelioma. Past, present and future*. Abstract p 41, Sep 30 to Oct 2, 1991, Paris, France.
49. Yeh, Y.-C., Yeh, H.-W., and **Hsu, S.-M.**: Transforming growth factor in salivary gland. *J. Cell Biol.*, 115:267a, 1991.
50. Petrucci, M.T., Hata, H., Xiao, H.-Q., Kreitman, R.J., Pastan, I., **Hsu, S.-M.**, and Epstein, J.: Significance of inducible IL-6 expression by myeloma cells. *Blood*, 78:115a, 1991.
51. Hsu, P.-L., Xie, S.-S., Yeh, Y.-C., Yeh, H.-W., Sawyer, J., Waldron, A.J, Jr., Barlogie, B., and **Hsu, S.-M.**: Expression of transforming growth factor (TGF)- α expression in plasma cell myeloma. *Lab. Invest.*, 66:79A, 1992.
52. Waldron, A.J. Jr., Fink, L., King, C., Xie, S.-S., Maosouri, A., Barlogie, B., and **Hsu, S.-M.**: Significance of interleukin-6 in angioimmunoblastic lymphadenopathy (AILD)-type T cell lymphoma. *Lab. Invest.*, 66:89A, 1992.
53. Fink, L., Collins, C.L., Schaefer, R., Granger, J., Xie, S.-S., Cook, C., Hsu, P.-L., and **Hsu, S.-M.**: Thrombomodulin expression in malignant pleural mesothelioma and pulmonary adenocarcinoma. *Lab. Invest.*, 66:113A, 1992.
54. Flick, J.T., Waldron, A.J. Jr., Macon, W.R., and **Hsu, S.-M.**: Expression of GST in normal or reactive lymphoid tissues and malignant lymphomas. *Lab. Invest.*, 66:77A, 1992.
55. Xie, S.-S., Waldron, J.A., Jr., and **Hsu, S.-M.**: Functional heterogeneity and pathologic significance of interleukin-6 in B-cell lymphomas. *Lab. Invest.*, 66:90A, 1992.

56. Farmer, C.E., Xie, S.-S., Waldron, J.A., Jr., and **Hsu, S.-M.**: Pathogenesis of lymphoid reaction in Warthin's tumor. *Lab. Invest.*, 66:71A, 1992.
57. **Hsu, S.-M.**, Xie, S.-S., and Waldron, A.J. Jr.: The role of interleukin-6 in the pathogenesis of Castleman's disease. *Lab. Invest.*, 66:79A, 1992.
58. Macon, W.R., Cousar, J.B., Waldron, J.A., Jr., and **Hsu, S.-M.**: T-cell rich B-cell lymphomas consistently express interleukin (IL)-4 in tumor cells and histiocyte. *Lab. Invest.*, 66:82A, 1992.
59. **Hsu, S.-M.**, Xie, S.-S., Yeh, H.W., Hsu, P.-L., and Yeh, Y.C.: Immunohistochemical localization of transforming growth factor alpha (TGF- α), epidermal growth factor (EGF), and their receptor (EGF-R) in normal human tissues. *FASEB*, 2:A1352, 1992.
60. Hardin, J.W., MacLeod S.L., **Hsu, S.-M.**, Epstein, L., and Barlogie, B.: IL-6 prevents dexamethasone (DEX)-induced apoptosis in a human myeloma cell line (ARP-1). *Proc. Am. Assoc. Cancer Res.*, 33:280, 1992.
61. Collin, C.L., Fink, L.M., **Hsu, S.-M.** and Schaefer, R.: Thrombomodulin staining of mesothelioma cells. *Hum. Pathol.*, 23:966-967, 1992.
62. **Hsu, S.-M.**: IgE in H-RS cells. *Blood*, 80:286-287, 1992.
63. **Hsu, S.-M.**, Xie, S.-S., and Hsu, P.-L.: Absence of a B-cell specific transcription factor, BSAP, in cultured Hodgkin's Reed-Sternberg cells. *Lab. Invest.*, 68:92A, 1993.
64. Lewis, J.M., and **Hsu, S.-M.**: Expression of transforming growth factors alpha in the dysplasia-carcinoma sequence of Barrett's esophagus. *Lab. Invest.*, 68:48A, 1993.
65. Beck, J.T., Wijdenes, J., Klein, B., Bataille, R., Hayden, K., **Hsu, S.-M.**, Epstein, J., and Barlogie, B.: Alleviation of systemic manifestations of Castleman's disease (CD) by anti-IL-6 monoclonal antibody. *Blood*, 80:48a, 1992.
66. Flick, J.T., **Hsu, S.-M.**, Waldron, J., Vesole, D., Barlogie, B., Jagganath, S., Yeh, H.W., and Yeh, Y.C.: Transforming growth factor- α (TGF- α) levels correlate directly with multiple myeloma (MM) tumor load, whereas IL-6 levels do not. *FASEB J.*, 7:A1239, 1993.
67. **Hsu, S.-M.**: The avidin-biotin detection methods. *In This Week's citation classic. Current Contents*, 36:9, 1993.
68. Flick, J.T., Waldron, J., Vesole, D., Jagganath, S., Hoover, R., Yeh, Y.-C., Epstein, J., **Hsu, S.-M.**, and Barlogie, B.: Transforming growth factor factor- α (TGF- α) is prominently expressed by the malignant plasma cells of multiple myeloma. *Blood*, 82:259a, 1993.
69. Noel, S.M., Koo, C., Marcus, J.N., **Hsu, S.-M.**, Weisenburger, D.D., and Chan, W.C.: Plasmacytoid monocyte proliferation: A study of cytokine expression and report of a case with extensive marrow infiltration. *Lab. Invest.*, 70:1994.

70. Bardales, R.H., Schaefer, R., Xie, S.-S., **Hsu, S.-M.**: Detection of *in situ* apoptosis in type II pneumocytes in acute lung injury and chronic interstitial pneumonia. *Modern Pathol.*, 146a, 1995.
71. Bardales, R.H., Hailey, S., Xie, S.-S., **Hsu, S.-M.**: *In situ* apoptosis assay for early detection of cardiac ischemia and acute myocardial infarction. *Modern Pathol.*, 30a, 1995.
72. Bardales, R.H., Morrow, M., Moody, M.J., Xie, S.-S., and **Hsu, S.-M.**: In situ DNA fragmentation assay to detect apoptosis in paraffin-embedded tissue sections: Technical considerations. *Modern Pathol.*, 162a, 1995.
73. **Hsu, S.-M.**: Thomas Hodgkin: Morbid anatomist and social activist (book review). *Hum Pathol.*, 1995.
74. Bardales, R.H., Schaefer, R., Xie, S.-S., **Hsu, S.-M.**: Detection of *in situ* apoptosis in type II pneumocytes in acute lung injury and chronic interstitial pneumonia. *Lab. Invest.* 72:146A, 1995.
75. Bardales, R.H., Hailey, S., Xie, S.-S., **Hsu, S.-M.**: *In situ* apoptosis assay for early detection of cardiac ischemia and acute myocardial infarction. *Lab. Invest.* 72:30A, 1995.
76. Bardales, R.H., Morrow, M., Moody, M.J., Xie, S.-S., and **Hsu, S.-M.**: In situ DNA fragmentation assay to detect apoptosis in paraffin-embedded tissue sections: Technical considerations. *Lab. Invest.* 72:162A, 1995.
77. **Hsu, S.-M.**: Cytokines in T-cell lymphoma. In "T-cell lymphoma symposium". Annual International Academy of Pathology Meeting, Hong Kong, Oct 14, 1994.
78. Waldron, J.A., Jr., Lu, Z.-D., and **Hsu, S.-M.**: Morphologic study of 203 cases of nasal T-cell lymphoma. In "T-cell lymphoma symposium". Annual International Academy of Pathology Meeting, Hong Kong, Oct 14, 1994.
79. **Hsu, S.-M.**: Hsin-Chu BioMedical science park – Integration of knowledge-based economy and biotechnology. Taiwan-America Biotechnology Forum. San Diego, USA
80. **Hsu, S.-M.**: The biotech education and research in period of knowledge-based economy in Taiwan – Roles of the National Taiwan University Hospital. The First AEARU Medical Center Workshop. 16-18 April 2003, Shenzhen, China
81. Tzu-Chien Hsiao, Pei-I Tsai, Hsiu-Ting Huang, Chih-Kung Lee, Su-Ming Hsu, and C.-W. Lin: The Development of Virtual Testing Resource for Medical Devices in Hsin-Chu Biomedical Science Park”, WC2006, Seoul, Korea.

BIBLIOGRAPHY

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2. Lin, J.K., **Hsu, S.-M.**, Fok, K.F.: Deoxygenation and demethylation of N'-acetyl- N'-methyl-4-amino-N,N-dimethyl-4-aminoazobenzene-N-oxide by hemoglobin and rat liver homogenate. *J. Chinese Biochem. Soc.* 4:1-9, 1975.
3. Lin, J.K., Su, I.J. and **Hsu, S.-M.**: Riboflavin-catalyzed photodegradation of bilirubin. *Formosan Med. Assoc.* 76: 293-300, 1977.
4. **Hsu, S.-M.**: Clinical applications of immunoenzymatic techniques. *Rhode Island Med. J.* 62: 447-452, 1979.
5. **Hsu, S.-M.** and Ree, H.J.: Self sandwich method: An improved immunoperoxidase technique for the detection of small amounts amount of antigens. *Am. J. Clin. Pathol.* 74:32-40, 1980.
6. **Hsu, S.-M.** and Hsu, P.-L.: Demonstration of IgA and secretory component in human hepatocytes. *Gut* 21: 985-989, 1980.
7. **Hsu, S.-M.**, Raine, L. and Nayak, R.N.: Medullary carcinoma of breast. An immunohistochemical study of its lymphoid storm. *Cancer* 48: 1368-1376, 1981.
8. **Hsu, S.-M.**, Hsu, P.-L. and Nayak, R.N.: Warthin's tumor: An immunohistochemical study of its lymphoid stroma. *Hum Pathol* 12: 251-257, 1981.
9. **Hsu, S.-M.**, Raine, L. and Martin, H.F.: Spironolactone bodies: An immunoperoxidase study with biochemical correlation. *Am. J. Clin. Pathol.* 75: 92-95, 1981.
10. **Hsu, S.-M.**, Raine, L. and Fanger, H.: A comparative study of the peroxidase-anti-peroxidase method and an avidin-biotin complex method for studying polypeptide hormones with radio-immunoassay antibodies. *Am. J. Clin. Pathol.* 75: 734-738, 1981.
11. **Hsu, S.-M.**, Raine, L. and Fanger, H.: The use of anti-avidin antibody and avidin-biotin- peroxidase complex in immunoperoxidase technics. *Am. J. Clin. Pathol.* 75: 816-821, 1981.
12. **Hsu, S.-M.**, Raine, L. and Fanger, H.: Use of avidin-biotin-peroxidase complex (ABC) in immunoperoxidase techniques: A comparison between ABC and un-labeled antibody (PAP) procedures. *J. Histochem. Cytochem.* 29: 577-580, 1981.
13. **Hsu, S.-M.** and Raine, L.: Protein A, avidin and biotin in immunohistochemistry. *J. Histochem. Cytochem.* 29: 1349-1353, 1981.

14. **Hsu, S.-M.**, Hsu, P.-L., McMillan, P.N. and Fanger, H.: Russell bodies: A light and electron microscopic immunoperoxidase study. *Am. J. Clin. Pathol.* 77: 26-31, 1982.
15. **Hsu, S.-M.** and Raine, L.: Warthin's tumor - epithelial cell differences. *Am. J. Clin. Pathol.* 77: 78-81, 1982.
16. **Hsu, S.-M.**, Werner, A., Griffiths, G. and Raine, L.: Demonstration of myoglobin in formalin-fixed renal sections by immunoperoxidase technic. *Am. J. Clin. Pathol.* 77: 316-318, 1982.
17. **Hsu, S.-M.** and Raine, L.: Discovery of high affinity of Phaseolus vulgaris agglutinin (PHA) with gastrin-secreting cells. *Am. J. Clin. Pathol.* 77: 396-400, 1982.
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19. **Hsu, S.-M.** and Raine, L.: Unwanted binding associated with avidin-biotin-peroxidase complex in frozen tissue. *Am. J. Clin. Pathol.* 77:775-776, 1982.
20. **Hsu, S.-M.** and Raine, L.: Versatility of biotin-labeled lectins and avidin-biotin-peroxidase complex for localization of carbohydrates in tissue sections. *J. Histochem. Cytochem.* 30: 157-161, 1982.
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22. Ree, H.J. and **Hsu, S.-M.**: Peanut agglutinin (PNA) receptors in follicular lymphoma and follicular hyperplasia: An immunohistochemical study. *Cancer* 51: 1631-1638, 1983.
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25. **Hsu, S.-M.**, Cossman, J., and Jaffe, E.S.: A comparison of ABC, unlabeled antibody and conjugated immunohistochemical methods with monoclonal and polyclonal antibodies -An examination of germinal center of tonsils. *Am. J. Clin. Pathol.* 80: 429-435, 1983.
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