Pan-Chyr Yang, MD, PhD

pcyang@ntu.edu.tw
7, Chung-Shan South Road, Taipei 100225, Taiwan

Education:

1990	Ph.D., Graduate Institute of Clinical Medicine, National Taiwan University
1979	M.D., College of Medicine, National Taiwan University,

Current Positions:

2006-now	Academician, Academia Sinica
2024-now	Distinguished Chair Professor, Department of Internal Medicine, College of Medicine, National Taiwan University
2017-now	Director, Young-Lin Institute of Health, National Taiwan University

Training and Working Experiences:

2017-now	Director, Young-Lin Institute of Health, National Taiwan University
2013-2017	President, National Taiwan University
2012-2017	Chairman and Member of the permanent committee, Committee on Medical Science Education, Ministry of Education, ROC
2011-2013	Superintendent, National Taiwan University Cancer Center
2008-2009	Committee on Medical Science Education, Ministry of Education, ROC
2009-now	Professor, Graduate Institute of Biomedical Electronics and Bioinformatics, National Taiwan University
2007-2013	Dean, College of Medicine, National Taiwan University
2006-now	Distinguished Professor and Chair Professor, National Taiwan University
2005-2007	Director, NTUH National Clinical Trial and Research Center
2004-2007	Vice Superintendent, National Taiwan University Hospital
2003-2008	President, Taiwan Society of Pulmonary and Critical Care Medicine
2002-2005	Director, Advisory Office, Ministry of Education, ROC
2001-2007	Associate Dean for Academic Affairs, College of Medicine, National Taiwan University
2000-2002	Adjunct Investigator, President's Lab., National Health Research Institute
1999-now	Joint Appointment, Institute of Biomedical Sciences, Academia Sinica
1998-2004	Chairman, Department of Internal Medicine, National Taiwan University Hospital
1993-now	Professor, Department of Internal Medicine, College of Medicine, National Taiwan University
2011-2017	Director/Co-director, National Research Program for Biopharmaceuticals
1991-1999	Adjunct Associate Researcher and Researcher, Institute of Biomedical Sciences, Academia Sinica

1990-1993	Associate Professor, Department of Internal Medicine, College of Medicine, National Taiwan University
1989-1990	Lecturer, Department of Internal Medicine, College of Medicine, National Taiwan University
1986-now	Attending Physician, Department of Internal Medicine, National Taiwan University Hospital
1984-1986	Attending Physician, King Fahad Hospital, Hofuf, Saudi Arabia
1980-1984	Resident, Chief Resident, Department of Internal Medicine, National Taiwan University Hospital
1979-1980	Resident, Taipei Demonstration Center, Taiwan Tuberculosis Control Bureau
1978-1979	Rotating Intern in National Taiwan University Hospital

Professional Society:

Former President, Formosan Medical Association
Former President, Taiwan Society of Pulmonary and Critical Care Medicine
Asian Pacific Society of Respirology
Member, American Thoracic Society
Member, American Association of Cancer Research
Member, American Society of Clinical Oncology
Fellow, American College of Chest Physicians
Member, American Society of Cell Biology
Member, American Association for Cancer Research
Member, Metastasis Research Society

Professional Interests and Specialties:

1. Internal Medicine
2. Pulmonary and Critical Care Medicine
3. Cancer Biology and Molecular Biology
4. Lung Cancer Genomics and Precision Medicine
5. Medical Ultrasound

Journal Reviewer and Editor:

<u>Editorial Board:</u>
JAMA Oncology 2015 -
American Journal of Medicine 2016 -
J Clinical Oncology 2008-2015
Carcinogenesis 2007-
Am J Respir Cell Mol Bio 2007-
J Formosan Med Assoc 2005-2010
The International J of Tuberculosis and Lung Disease 2007-
European Respiratory Journal 2012-
Journal of Thoracic Oncology 2012-

Journal Reviewers:

Journal of Clinical Investigation
EMBO-Molecular Medicine
British Med J
Oncogene
Cancer Res
Clinical Cancer Res
Hepatology
Am J Respir Crit Care Med
Critical Care Medicine
Clinical Infectious Diseases
BMC Cancer
Cancer Immunology Immunotherapy
Molecular Carcinogenesis
Cancer
Int J Cancer
Chest
Respiratory Research
J Thoracic Oncol
Lung Cancer

Editor-in-Chief:

Lung Cancer: Targets and Therapy 2012-2017
MicroRNA 2011-2014

Academic Editor:

PLoS One (Academic editor) 2010 - 2019

Awards:

Academician, Industrial Technology Research Institute	2021
The 2020 Joseph W. Cullen Prevention/Early Detection Award	2020
Chevalier de la Légion d'honneur de Français	2020
The Phi Tau Phi Outstanding Achievement Award	2020
Fellow, National Academy of Inventors (NAI)	2015
Academician, The World Academy of Sciences	2008
National Chair Professor, Ministry of Education, Taiwan R.O.C.	2007-2009
Chair Professor, National Taiwan University	2006
Distinguished Professor, National Taiwan University	2006
Academician, Academia Sinica	2006
10th TECH Technology Award	2003
Academic Award, Ministry of Education, R.O.C.	2002
Outstanding Scholar Award, Foundation for the Advancement of Outstanding Scholarship	2001-2006
Distinguished Teacher Award, National Taiwan University	1999, 2012

The 7th Annual Wang Ming-Ning Award	1997
Outstanding Research Award, National Science Council	1993-1994, 1995-1996, 1997-1998
Distinguished Clinical Teacher Award, NTUCMAF	1993, 1997
Ten Outstanding Youth Award, R.O.C	1993

Supervision of Postgraduate Students:

Master's degree students:

An-Yi Hsiao (2012-present); Hao-Cheng Kuo (2011-2014); Kai-Syang Jwang (2010-2012); Ting-Yung Huang (2010-2012); Pui-San Ieong (2004-2006); Hsing-Chen Tsai (2002-2004);Lu-Cheng Kuo (2000-2002)

Ph.D. students:

Wei-Yun Lai (2008-2014); Pei-Ying Lin (2008-present); Shu-Wei Lin (2012-present); Chung-Chueh Chiao (2011-present); Chia-Yi Lin (2011-present); Ting-Chun Kao (2011-present); Kuo-Yan Huang (2009-present); Chia-Lin Hsu (2008-present); Tzu-Hsiu Tsai (2007-present); Ching-Wen Lin (2007-2013); Ting-Fang Che (2006-present); Shih-Han Kao (2006-2013); Lu-Kai Wang (2005-2014); Lu-Cheng Kuo (2005-present); Pei-Lin Lee (2005-2012); Wen-Lung Wang (2004-2012); Pei-Fang Hung (2004-2011); Yi-Ying Wu (2003-2011); Wei-Yu Liao (2003-present); Yu-Chih Chao (2002-2008); Shih-Lung Cheng (2002-2009); Jann-Yuan Wang (2002-2008); Shu-Ping Wang (2001-2009); Szu-Hua Pan (2000-2009); Jih-Shuin Jerng (2001-2006); Hsuan-Yu Chen (2001-2006); Yuh-Pyng Sher (2001-2006); Chi-Chung Wang (2000-2006); Kuan-Yu Chen (2000-2006); Jin-Yuan Shih (1996-2000); Hao-Chien Wang (1994-2000); Yuang-Shuang Liaw (1993-1998); Tse-Ming Hong (1992-2000); Ang Yuan (1992-1999); Jeremy J.W. Chen (1992-1998); Chong-Jen Yu (1991-1997)

Clinical and Ethical Training Certificate:

Training Program or Certificate	Sponsor	Date
Ethical and Legal Responsibilities in Conducting Clinical Research	National Clinical Trial & Research Center in NTUH	2009/03/20
Clinical Research Ethics and Good Clinical Practice Training Course	New Drug Clinical Trial Center in NTUH	2005/08/09
Research Ethics Committee Member Training Course of the National Taiwan University Hospital	Research Ethics Committee of the National Taiwan University Hospital	2004/09/21

Publications:

1. Yang PC, Luh KT, Luan HW, Yang SP: A case of tuberous sclerosis with pulmonary involvement. Taiwan Yi Xue Hui Za Zhi. 1981;80(6):636-642.
2. Hsieh BS, Wang TC, Yang PC, Chen WY, Yen TS, Chen JS: Hypophosphatemia: incidence, causes and proposal for therapy. Taiwan Yi Xue Hui Za Zhi. 1982;81(9):1101-1106.
3. Yang PC, Chen FW, Tzen KY: A case of Albright's syndrome with primary hypogonadism. Taiwan Yi Xue Hui Za Zhi. 1982;81(9):1190-1196.
4. Yang PC, Kuo SH, Lien WP, Su CT: Idiopathic mediastinal fibrosis. Taiwan Yi Xue Hui Za Zhi. 1983;82(4):602-608.
5. Yang PC, Sheu JC, Luh KT: Clinical application of real-time ultrasonography in pleural and subpleural lesions. J Formos Med Assoc. 1984;83(7):646-657.
6. S Sheu JC, Chen DS, Sung JL, Chuang CN, Yang PM, Lin JT, Yang PC: Hepatocellular carcinoma: US evolution in the early stage. Radiology. 1985;155(2):463-467.
7. Sheu JC, Sung JL, Chen DS, Lai MY, Wang TH, Yu JY, Yang PM, Chuang CN, Yang PC, Lee CS, Hsu HC, How SW: Early detection of hepatocellular carcinoma by real-time ultrasonography. A prospective study. Cancer. 1985;56(3):660-666.
8. Sheu JC, Sung JL, Chen DS, Yang PM, Lai MY, Lee CS, Hsu HC, Chuang CN, Yang PC, Wang TH, Lin JT, Lee CZ: Growth rate of asymptomatic hepatocellular carcinoma and its clinical implications. Gastroenterology. 1985;89(2):259-266.
9. Yang PC, Luh KT, Sheu JC, Kuo SH: Peripheral pulmonary lesions: Ultrasonography and ultrasonically guided aspiration biopsy. Radiology. 1985;155(2):451-456.
10. Lee LN, Chen CR, Yang PC, Yang GG, Kuo SH, Luh KT: Ultrasonography of thoracic lesions: analysis of 251 cases. Taiwan Yi Xue Hui Za Zhi. 1987;86(8):838-846.
11. Lin MS, Yang PC, Chen CR: Pulmonary and cardiovascular effects of intravenous hexoprenaline: A dose-response study. Current Therapeutic Research. 1987;41(3):380-393.
12. Yang PC, Lin MS, Luh KT: A comparison of chronotropic effects of intravenous hexoprenaline and aminophylline. Taiwan Yi Xue Hui Za Zhi. 1987;86(10):1029-1035.
13. Yang PC, Lee LN, Luh KT, Kuo SH, Yang SP: Ultrasonography of Pancoast tumor. Chest. 1988;94(1):124-128.
14. Wu HD, Yang PC, Kuo SH, Luh KT: Ultrasonography in complete chest X-ray opacification of hemithorax. Taiwan Yi Xue Hui Za Zhi. 1989;88(7):694-699.
15. Yang PC, Luh KT, Lee YC, Kuo SH, Huang TW: Tumor markers of lung cancer: carcinoembryonic antigen and TuMark. Taiwan Yi Xue Hui Za Zhi. 1989;88(8):791-796.
16. Chang DB, Yang PC, Luh KT, Lee LN, Kuo SH, Lee YC: Ultrasonic evaluation of cervical lymphadenopathy. J Formos Med Assoc. 1990;89(4):286-292.
17. Lee YC, Chang KJ, Lu FJ, Yang PC: Serum macro creatine kinase type 2 as a tumor marker in lung cancer: comparison with carcinoembryonic antigen. J Formos Med Assoc. 1990;89(2):104-109.
18. Shih TT, Su CT, Yang PC, Hsu JC, Huang KM: Diagnosis of cardiac metastasis by computed tomography: report of 5 cases. J Formos Med Assoc. 1990;89(5):392-398.
19. Yang PC, Luh KT, Wu HD, Chang DB, Lee LN, Kuo SH, Yang SP: Lung tumors associated with

obstructive pneumonitis: US studies. Radiology. 1990;174(3):717-720.

20. Chang DB, Yang PC, Lee LN, Luh KT: Metallic weakness and breakage of Abrams pleural biopsy needle. Chest. 1991;99(2):524.
21. Chang DB, Yang PC, Luh KT, Kuo SH, Yu CJ: Ultrasound-guided pleural biopsy with Tru-Cut needle. Chest. 1991;100(5):1328-1333.
22. Lee YC, Chang DB, Yang PC: Immunohistochemical study of the expression of intermediate filaments in human lung cancer. J Surg Assoc ROC. 1991;24(5):801-808.
23. Lee YC, Chang WJ, Yang PC: Effect of combinations of anticancer drugs with interferons on human lung cancer cell lines evaluated by human tumor clonogenic assay. J Formos Med Assoc. 1991;90(9):880-885.
24. Lee YC, Yang PC, Kuo SH, Luh KT: Tissue polypeptide antigen and arcinoembryonic antigen as tumor markers in lung cancer. J Formos Med Assoc. 1991;90(7):631-636.
25. Wu HD, Yang PC, Lee LN: Differentiation of lung abscess and empyema by ultrasonography. J Formos Med Assoc. 1991;90(8):749-754.
26. Yang GG, Wu HD, Yang PC, Kuo SH, Luh KT: Sonographic patterns of ribs with tumor involvement. J Formos Med Assoc. 1991;90(2):141-145.
27. Yang PC, Luh KT, Lee YC, Chang DB, Yu CJ, Wu HD, Lee LN, Kuo SH: Lung abscesses: US examination and US-guided transthoracic aspiration. Radiology. 1991;180(1):171-175.
28. Yu CJ, Yang PC, Chang DB, Wu HD, Lee LN, Lee YC, Kuo SH, Luh KT: valuation of ultrasonically guided biopsies of mediastinal masses. Chest. 1991;100(2):399-405.
29. Chang DB, Kuo SH, Yang PC, Shen FH, Luh KT: Clearance of theophylline by hemodialysis in one patient with chronic renal failure. Chest. 1992;102(5):1621-1622.
30. Chang DB, Yang PC, Kuo SH: Diagnosis of intrathoracic goiter based on sonographic findings [2]. Am J Roentgenol. 1992;159(3):671-672.
31. Chang DB, Yang PC, Luh KT, Kuo SH, Hong RL, Lee LN: Late survival of non-small cell lung cancer patients with brain metastases: Influence of treatment. Chest. 1992;101(5):1293-1297.
32. Chang DB, Yang PC, Luh KT, Kuo SH, Huang LC, Lin WM: Age trends in lung cancer. J Formos Med Assoc. 1992;91(2):141-145.
33. Chang DB, Yang PC, Yu CJ, Kuo SH, Lee YC, Luh KT: Ultrasonography and ultrasonographically guided fine-needle aspiration biopsy of impalpable cervical lymph nodes in patients with non-small cell lung cancer. Cancer. 1992;70(5):1111-1114.
34. Ko JC, Yang PC, Luh KT, Kuo SH, Chang DB, Yu CJ: Lobar bronchioloalveolar carcinoma: an ultrasound study. J Formos Med Assoc. 1992;91(11):1049-1053.
35. Lee YC, Yang PC, Kuo SH, Luh KT: Immunosuppressive acidic protein in patients with lung cancer. Chest. 1992;102(5):1491-1495.
36. Luh KT, Yang PC: Desmoplasia and regression of lung adenocarcinoma after intratumor injection of OK-432: Report of a case. J Formos Med Assoc. 1992;91(6):639-642.
37. Luhr KT, Yang PC, Kuo SH, Chang DB, Yu CJ, Lee LN: Comparison of OK-432 and mitomycin C pleurodesis for malignant pleural effusion caused by lung cancer. A Randomized Trial. Cancer. 1992;69(3):674-679.
38. Yang PC, Chang DB, Lee YC, Yu CJ, Kuo SH, Luh KT: Mediastinal malignancy: Ultrasound guided

biopsy through the supraclavicular approach. Thorax. 1992;47(5):377-380.

39. Yang PC, Chang DB, Yu CJ, Lee YC, Kuo SH, Luh KT: Ultrasound guided percutaneous cutting biopsy for the diagnosis of pulmonary consolidations of unknown aetiology. Thorax. 1992;47(6):457-460.
40. Y Yang PC, Chang DB, Yu CJ, Lee YC, Wu HD, Kuo SH, Luh KT: Ultrasound-guided core biopsy of thoracic tumors. Am Rev Respir Dis. 1992;146(3):763-767.
41. Yang PC, Lee YC, Yu CJ, Chang DB, Wu HD, Lee LN, Kuo SH, Luh KT: Ultrasonographically guided biopsy of thoracic tumors. A comparison of large-bore cutting biopsy with fine-needle aspiration. Cancer. 1992;69(10):2553-2560.
42. Yang PC, Luh KT, Chang DB, Wu HD, Yu CJ, Kuo SH: Value of sonography in determining the nature of pleural effusion: Analysis of 320 cases. Am J Roentgenol. 1992;159(1):29-33.
43. Yang PC, Luh KT, Chang DB, Yu CJ, Kuo SH, Wu HD: Ultrasonographic evaluation of pulmonary consolidation. Am Rev Respir Dis. 1992;146(3):757-762.
44. Yang PC, Luh KT, Kuo SH, Wu CW: Immunocytochemistry and ELISA quantitation of mucin for diagnosis of malignant pleural effusions. Am Rev Respir Dis. 1992;146(6):1571-1575.
45. Yang PC, Luh KT, Wu R, Wu CW: Characterization of the mucin differentiation in human lung adenocarcinoma cell lines. Am J Resp Cell Mol Biol. 1992;7(2):161-171.
46. Yu CJ, Yang PC, Chang DB, Luh KT: Diagnostic and therapeutic use of chest sonography: Value in critically ill patients. Am J Roentgenol. 1992;159(4):695-701.
47. Yu CJ, Yang PC, Hsieh RP, Luh KT: Evaluation of the A-60 IgG ELISA serodiagnostic test for tuberculosis in Taiwan. J Formos Med Assoc. 1992;91(6):614-619.
48. Yuan A, Yang PC, Chang DB, Yu CJ, Kuo SH, Luh KT: Lung sequestration; Diagnosis with ultrasound and triplex Doppler technique in an adult. Chest. 1992;102(6):1880-1882.
49. Yuan A, Yang PC, Chang DB, Yu CJ, Kuo SH, Luh KT: Ultrasound-guided aspiration biopsy of small peripheral pulmonary nodules. Chest. 1992;101(4):926-930.
50. Yuan A, Yang PC, Lee LN, Chang DB, Kuo SH, Luh KT: Actinobacillus actinomycetemcomitans pneumonia with chest wall involvement and rib destruction. Chest. 1992;101(5):1450-1452.
51. Chang DB, Yang PC, Chang KJ, Luh KT, Kuo SH: Comparison of DNA stemline and cell kinetics between primary breast cancer and its lymph node metastasis. Anal Quant Cytol Histol. 1993;15(1):32-38.
52. Lee LN, Yang PC, Kuo SH, Luh KT, Chang DB, Yu CJ: Diagnosis of pulmonary cryptococcosis by ultrasound guided percutaneous aspiration. Thorax. 1993;48(1):75-78.
53. Liaw YS, Yang PC, Yuan A, Hsieh FJ, Kuo SH, Luh KT: Ultrasonography and color Doppler imaging of metastatic pulmonary choriocarcinoma. Chest. 1993;104(5):1600-1601.
54. Pan JF, Yang PC, Chang DB, Lee YC, Kuo SH, Luh KT: Needle aspiration biopsy of malignant lung masses with necrotic centers: Improved sensitivity with ultrasonic guidance. Chest. 1993;103(5):1452-1456.
55. Yeh TS, Wang CR, Huang SH, Huang SF, Yang PC, Chuang CY: Myopathy associated with human immunodeficiency virus infection: Report of a case. J Formos Med Assoc. 1993;92(2):192-194.
56. Yu CJ, Yang PC, Wu HD, Chang DB, Kuo SH, Luh KT: Ultrasound study in unilateral hemithorax opacification: Image comparison with computed tomography. Am Rev Respir Dis.

1993;147(2):430-434.

57. Yuan A, Yang PC, Chang DB: Pulmonary infarction: Use of color Doppler sonography for diagnosis and assessment of reperfusion of the lung [4]. Am J Roentgenol. 1993;160(2):419-420.
58. Yuan A, Yang PC, Chang DB, Yu CJ, Wu HD, Lee LN, Kuo SH, Luh KT: Ultrasound guided aspiration biopsy for pulmonary tuberculosis with unusual radiographic appearances. Thorax. 1993;48(2):167-170.
59. Chang DB, Yuan A, Yu CJ, Luh KT, Kuo SH, Yang PC: Differentiation of benign and malignant cervical lymph nodes with color Doppler sonography. Am J Roentgenol. 1994;162(4):965-968.
60. Hung CC, Chang SC, Yang PC, Hsieh WC: Invasive pulmonary pseudallescheriasis with direct invasion of the thoracic spine in an immunocompetent patient. Eur J Clin Microbiol Infect Dis. 1994;13(9):749-751.
61. Ko JC, Yang PC, Chang DB, Yu CJ, Lee LN, Kuo SH, Luh KT: Ultrasonographic evaluation of peridiaphragmatic lesions: A prospective study. J Med Ultrasound. 1994;2(2):84-92.
62. Ko JC, Yang PC, Huang TS, Yeh KH, Kuo SH, Luh KT: Panhypopituitarism caused by solitary parasellar metastasis from lung cancer. Chest. 1994;105(3):951-953.
63. Ko JC, Yang PC, Yuan A, Chang DB, Yu CJ, Wu HD, Lee LN, Kuo SH, Luh KT: Superior vena cava syndrome: Rapid histologic diagnosis by ultrasound- guided transthoracic needle aspiration biopsy. Am J Respir Crit Care Med. 1994;149(3 I):783-787.
64. Lee LN, Yang PC, Chang DB, Yu CJ, Ko JC, Liaw YS, Wu RG, Luh KT: Ultrasound guided pericardial drainage and intrapericardial instillation of mitomycin C for malignant pericardial effusion. Thorax. 1994;49(6):594-595.
65. Lee LN, Shew JY, Sheu JC, Lee YC, Lee WC, Fang MT, Chang HF, Yu CJ, Yang PC, Luh KT: Exon 8 mutation of p53 gene associated with nodal metastasis in non- small-cell lung cancer. Am J Respir Crit Care Med. 1994;150(6 I):1667-1671.
66. Liaw YS, Yang PC, Su IJ, Kuo SH, Wang CH, Luh KT: Mucosa-associated lymphoid tissue lymphoma of the lung with cold-reacting autoantibody-mediated hemolytic anemia. Chest. 1994;105(1):288-290.
67. Liaw YS, Yang PC, Wu ZG, Yu CJ, Chang DB, Lee LN, Kuo SH, Luh KT: The bacteriology of obstructive pneumonitis: A prospective study using ultrasound-guided transthoracic needle aspiration. Am J Respir Crit Care Med. 1994;149(6):1648-1653.
68. Lin MT, Yang PC, Luh KT: Constrictive pericarditis after sclerosing therapy with mitomycin C for malignant pericardial effusion: Report of a case. J Formos Med Assoc. 1994;93(3):250-252.
69. Wang DY, Chang DB, Kuo SH, Yang PC, Lee YC, Hsu HC, Luh KT: Carcinoid tumours of the thymus. Thorax. 1994;49(4):357-360.
70. Wang SS, Chu SH, Lee YC, Chang SC, Yang PC: Successful treatment of invasive pulmonary aspergillosis in heart transplantation. Transplant Proc. 1994;26(4):2329-2332.
71. Wu RG, Yuan A, Liaw YS, Chang DB, Yu CJ, Wu HD, Kuo SH, Luh KT, Yang PC: Image comparison of real-time gray-scale ultrasound and color Doppler ultrasound for use in diagnosis of minimal pleural effusion. Am J Respir Crit Care Med. 1994;150(2):510-514.
72. Yuan A, Chang DB, Yu CJ, Kuo SH, Luh KT, Yang PC: Color Doppler sonography of benign and malignant pulmonary masses. Am J Roentgenol. 1994;163(3):545-549.

73. Chou WC, Wu CC, Yang PC, Lee YT: Hypovolemic shock and mortality after ingestion of Tripterygium wilfordii hook F.: a case report. Int J Cardiol. 1995;49(2):173-177.
74. Kuo PH, Yuan A, Yang PC, Yu CJ, Chan YC, Luh KT: Diagnosis of pulmonary arteriovenous malformation with color Doppler ultrasonography. J Ultrasound Med. 1995;14(1):53-56.
75. Liaw YS, Kuo SH, Yang PC, Chen CL, Luh KT: Nodular amyloidosis of the lung and the breast mimicking breast carcinoma with pulmonary metastasis. Eur Respir J. 1995;8(5):871-873.
76. Liaw YS, Yang PC, Yu CJ, Chang DB, Wang HJ, Lee LN, Kuo SH, Luh KT: Direct determination of cryptococcal antigen in transthoracic needle aspirate for diagnosis of pulmonary cryptococcosis. J Clin Microbiol. 1995;33(6):1588-1591.
77. Liaw YS, Yang PC, Yu CJ, Wu ZG, Chang DB, Lee LN, Kuo SH, Luh KT: Clinical Spectrum of Tuberculosis in Older Patients. J Am Geriatr Soc. 1995;43(3):256-260.
78. Pan JF, Yang PC, Chang DB, Yu CJ, Lee LN, Kuo SH: Nebulized fenoterol versus IV aminophylline treatment of acute severe asthma. Am J Emerg Med. 1995;13(6):677-680.
79. Pan JF, Yang PC, Luh KT: Obstructive pneumonitis mimicking pneumonia with parapneumonic effusion: Usefulness of chest ultrasound in differentiation. J Med Ultrasound. 1995;3(3):158-161.
80. Wang DY, Kuo SH, Chang DB, Yang PC, Lee YC, Luh KT, Hsu HC: Fine needle aspiration cytology of thymic carcinoid tumor. Acta Cytol. 1995;39(3):423-427.
81. Wang HC, Liaw YS, Yang PC, Kuo SH, Luh KT. A pseudoepidemic of Mycobacterium chelonae infection caused by contamination of a fibreoptic bronchoscope suction channel. Eur Respir J. 1995;8(8):1259-1262.
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83. Wu RG, Yang PC, Kuo SH, Luh KT. 'Fluid color' sign: A useful indicator for discrimination between pleural thickening and pleural effusion. J Ultrasound Med. 1995;14(10):767-769.
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85. Kuo PH, Lee LN, Yang PC, Chen YC, Luh KT: Aspergillus laryngotracheobronchitis presenting as stridor in a patient with peripheral T cell lymphoma. Thorax. 1996;51(8):869-870.
86. Kuo PH, Wu HD, Yu CJ, Yang SC, Lai YL, Yang PC: Efficacy of tracheal gas insufflation in acute respiratory distress syndrome with permissive hypercapnia. Am J Respir Crit Care Med. 1996;154(3 I):612-616.
87. Lai YP, Kuo PH, Wu HD, Yang PC: A patient with haemoptysis, rapidly changing pulmonary infiltrates and left flank pain. Eur Respir J. 1996;9(10):2184-2187.
88. Luh KT, Yu CJ, Yang PC, Lee LN: Tuberculosis antigen A60 serodiagnosis in tuberculous infection: application in extrapulmonary and smear-negative pulmonary tuberculosis. Respirology. 1996;1(2):145-151.
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91. Yang PC: Color Doppler ultrasound of pulmonary consolidation. Eur J Ultrasound. 1996;3(2):169-178.
92. Yang SP, Luh KT, Yang PC: New developments in diagnosis and management of lung cancer. Respirology. 1996;1(1):39-47.
93. Yu CJ, Yang PC, Hong TM, Yang SC, Luh KT, Wu CW: Mucin mRNA expression in lung adenocarcinoma cell lines and tissues. Oncology. 1996;53(2):118-126.
94. Yu CJ, Yang PC, Shun CT, Lee YC, Kuo SH, Luh KT: Overexpression of MUC5 genes is associated with early post-operative metastasis in non-small-cell lung cancer. Int J Cancer. 1996;69(6):457-465.
95. Chiang IH, Suo J, Bai KJ, Lin TP, Luh KT, Yu CJ, Yang PC: Serodiagnosis of tuberculosis: A study comparing three specific mycobacterial antigens. Am J Respir Crit Care Med. 1997;156(3 I):906-911.
96. Chu YW, Yang PC, Yang SC, Shyu YC, Hendrix MJC, Wu R, Wu CW: Selection of Invasive and Metastatic Subpopulations from a Human Lung Adenocarcinoma Cell Line. Am J Resp Cell Mol Biol. 1997;17(3):353-360.
97. Hsueh PR, Chang JC, Teng LJ, Yang PC, Ho SW, Luh KT: Comparison of etest and agar dilution method for antimicrobial susceptibility testing of Flavobacterium isolates. J Clin Microbiol. 1997;35(4):1021-1023.
98. Hsueh PR, Teng LJ, Lee PI, Yang PC, Huang LM, Ho SW, Hsieh WC, Lee CY, Luh KT: Outbreak of scarlet fever at a hospital day care centre: Analysis of strain relatedness with phenotypic and genotypic characteristics. J Hosp Infect. 1997;36(3):191-200.
99. Hsueh PR, Teng LJ, Yang PC, Ho SW, Hsieh WC, Luh KT: Increasing incidence of nosocomial Chryseobacterium indologenes infections in Taiwan. Eur J Clin Microbiol Infect Dis. 1997;16(8):568-574.
100. Hsueh PR, Teng LJ, Yang PC, Ho SW, Luh KT: Indwelling device-related bacteremia caused by serum-susceptible campylobacter coli. J Clin Microbiol. 1997;35(8):2178-2180.
101. Hsueh PR, Teng LJ, Yang PC, Ho SW, Luh KT: Susceptibilities of Chryseobacterium indologenes and Chryseobacterium meningosepticum to cefepime and cefpirome. J Clin Microbiol. 1997;35(12):3323-3324.
102. Hsueh PR, Teng LJ, Yang PC, Wang SK, Chang SC, Ho SW, Hsieh WC, Luh KT: Bacteremia caused by Arcobacter cryaerophilus 1B. J Clin Microbiol. 1997;35(2):489-491.
103. Jerng JS, Hsueh PR, Teng LJ, Lee LN, Yang PC, Luh KT: Empyema thoracis and lung abscess caused by viridans streptococci. Am J Respir Crit Care Med. 1997;156(5):1508-1514.
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Patents:

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Grant Support (From 2003-2023)： Name of PI Pan-Chyr Yang

Title of Research Project	Duration (Y/M/D~ Y/M/D)	Funding Agency	Amount of Funding (NTD)	Note
Development of Novel Phagocytosis Therapeutic Antibody for Lung Cancer(1/3)	2023/08/01~ 2024/07/31	NSTC	1,580,000	NSTC112-2314-B-002-128
GPS-based high-throughput screening of drugs modulating tumor microenvironment - PD-L1 as targets for cancer immunotherapy(2/3)	2023/08/01~ 2024/07/31	NSTC	1,500,000	NSTC112-2314-B-002-045
GPS-based high-throughput screening of drugs modulating tumor microenvironment - PD-L1 as targets for cancer immunotherapy (1/3)	2022/08/01~ 2023/10/31	NSTC	1,500,000	NSTC111-2314-B-002-150
Using nano-modified virus CRISPR/Cas9 to overcome EGFR-TKI resistance in NSCLC(1/3)	2020/08/01~ 2023/10/31	NSTC	21,650,000	NSTC109-2124-M-002-012 NSTC110-2124-M-002-010 NSTC111-2124-M-002-010
Genomic Landscape of Early Lung Cancer	2020/11/01~ 2022/10/31	NSTC	19,000,000	NSTC109-3111-8-002-001 NSTC110-2622-8-002-016
Vorinostat combined with third generation TKIs to overcome EGFR C797 mutation in lung adenocarcinoma	2019/08/01~ 2022/07/31	MOST	4,350,000	MOST108-2314-B-002-195 MOST109-2314-B-002-277 NSTC110-2314-B-002-282
The role of lactic acidosis in tumor microenvironment and cancer immunity – Investigation of PD-L1 protein and its therapeutic inhibitors	2018/08/01~ 2021/07/31	MOST	4,800,000	MOST108-2314-B-002-027 MOST109-2314-B-002-254
Discovery of the novel compounds to overcome EGFR C797S mediated TKI resistance in lung adenocarcinoma	2017/08/01~ 2019/07/31	MOST	3,500,000	MOST106-2314-B-002-103-MY2
Patient-derived models for intratumor functional heterogeneity of cancer stem cells and its implications for personalized medicine	2016/04/01~ 2019/03/31	MOST	9,000,000	MOST105-2923-B-002-003-MY3
Admin. Program for NRPB (National Research Program for Biopharmaceuticals) (VI)	2016/04/01~ 2017/06/30	MOST	22,499,000	MOST105-3113-F-002-007-MY2
International Center of Excellence in Cancer Research (5/5)	2016/02/01~ 2017/01/31	MOST	35,000,000	MOST105-2911-I-002-302
Synthetic lethal approach of identifying miRNAs and their targets that modulate EGFR-TKIs acquired resistant in NSCLC	2015/08/01~ 2018/07/31	MOST	4,500,000	MOST104-2314-B-002-228-MY3
Integrated Core Facility for Functional Genomics	2015/05/01~ 2016/04/30	MOST	43,762,188	MOST104-2319-B-002-002
International Center of Excellence in Cancer Research (4/5)	2015/02/01~ 2016/01/31	MOST	35,000,000	MOST104-2911-I-002-302
Admin. Program for NRPB (National Research Program for Biopharmaceuticals) (V)	2015/01/01~ 2016/03/31	MOST	20,070,000	MOST104-3113-F-002-007
Translational Research in Lung Cancer: from Molecular Markers/Targets to Therapeutic Applications (3/3)	2015/01/01~ 2016/01/31	MOST	10,000,000	MOST104-2923-B-002-003
Syntenin Promotes Cancer Cell Invasion Though Regulating Slug-dependent Epithelial-Mensenchymal Transition in NSCLC (3/3)	2014/08/01~ 2015/07/31	MOST	1,400,000	MOST103-2321-B-002-022
Integrated Core Facility for Functional Genomics	2014/05/01~ 2015/04/30	MOST	53,815,744	MOST103-2319-B-002-002
International Center of Excellence in Cancer Research (3/5)	2014/02/01~ 2015/01/31	MOST	35,000,000	MOST103-2911-I-002-303

Admin. Program for NRPB (National Research Program for Biopharmaceuticals)	2014/01/01~ 2015/03/31	MOST	18,353,000	MOST103-3113-P-002-006
Translational Research in Lung Cancer: from Molecular Markers/Targets to Therapeutic Applications (2/3)	2014/01/01~ 2014/12/31	MOST	10,000,000	MOST103-2923-B-002-003
Syntenin Promotes Cancer Cell Invasion Though Regulating Slug-dependent Epithelial-Mensenchymal Transition in NSCLC(2/3)	2013/08/01~ 2014/07/31	MOST	4,550,000	MOST102-2321-B-002-053
Integrated Core Facility for Functional Genomics III	2013/05/01~ 2014/04/30	MOST	61,367,000	MOST102-2319-B-002-002
International Center of Excellence in Cancer Research (2/5)	2013/02/01~ 2014/01/31	MOST	35,000,000	MOST102-2911-I-002-303
Admin. Program for NRPB (National Research Program for Biopharmaceuticals)	2013/01/01~ 2014/03/31	MOST	19,257,100	MOST102-3113-P-002-034
Translational Research in Lung Cancer: from Molecular Markers/Targets to Therapeutic Applications (1/3)	2013/01/01~ 2013/12/31	MOST	10,000,000	MOST102-2923-B-002-004-
Syntenin Promotes Cancer Cell Invasion Though Regulating Slug-dependent Epithelial-Mensenchymal Transition in NSCLC(1/3)	2012/08/01~ 2013/07/31	MOST	4,550,000	MOST101-2321-B-002-068
Integrated Core Facility for Functional Genomics II	2012/05/01~ 2013/04/30	MOST	104,728,000	MOST101-2319-B-002-002
International Center of Excellence in Cancer Research (1/5)	2012/02/01~ 2013/01/31	MOST	35,000,000	MOST101-2911-I-002-303
Admin. Program for NRPB (National Research Program for Biopharmaceuticals)	2012/01/01~ 2013/03/31	MOST	19,615,000	MOST101-3113-P-002-018
Admin. Program for NRPB (National Research Program for Biopharmaceuticals)	2011/01/01~ 2012/06/30	NSC	22,031,000	NSC100-3113-P-002-004
Mechanisms of Cancer Metastasis-Epigenetic control of cancer metastasis	2011/01/01~2 011/04/30	NSC	2,093,000	NSC100-3112-B-002-006
Role of a novel oncomiR, miR-135b, in lung cancer progression and its potential clinical application (1/3)	2011/08/01~ 2012/07/31	NSC	3,160,000	NSC100-2321-B-002-071
Integrated Core Facility for Functional Genomics I	2011/05/01~ 2012/04/30	NSC	58,825,000	NSC100-2319-B-002-002
Integrated Core Facility for Functional Genomics	2010/05/01~2 011/04/30	NSC	33,275,000	NSC99-3112-B-002-041
Genetically-engineered mice for cancer cell/stem cell lineage tracing: research and application	2009/08/01~ 2012/07/31	NSC	6,000,000	NSC98-2627-B-002-021 NSC99-2627-B-002-012
HIPK2 regulates slug-mediated tumorigenesis and metastasis	2009/08/01~ 2012/07/31	NSC	4,150,000	NSC98-2628-B-002-086-MY3
Metabolomics in translational medicine	2009/08/01~ 2010/07/31	NSC	26,100,000	NSC98-2321-B-002-037-
The invasion promoter Slug is a novel cell cycle regulator	2008/08/01~ 2011/07/31	NSC	3,703,000	NSC97-2314-B-002-146-MY3
Epigenetic control of cancer metastasis	2007/01/01~ 2010/12/31	DOH	13,085,596	DOH97-TD-G-111-018 DOH98-TD-G-111-007 DOH99-TD-G-111-005
Biomarker of NSCLC: A large scale clinical trial	2007/12/01~ 2010/11/30	DOH	14,000,000	DOH96-TD-I-111-008

Long form CRMP-1 is involved in cancer invasion and metastasis	2005/05/01~ 2007/12/31	DOH	8,912,430	DOH94-TD-G-111-022 DOH95-TD-G-111-010 DOH96-TD-G-111-011
Multifunctional transcription factor YY1 and lung cancer progression	2006/08/01~ 2009/07/31	NSC	3,914,000	NSC95-2314-B-002-109-MY3
Microarray and SNP Core Facility for Genomic Medicine	2006/05/01~ 2007/04/30	NSC	14,143,000	NSC95-3112-B-002-022
Identification and functional characterization of Slug association proteins in lung cancer	2004/08/01~ 2007/07/31	NSC	3,364,300	NSC93-2314-B-001-004 NSC94-2314-B-001-002 NSC95-2314-B-001-001
Molecular cloning and functional characterization of metastasis- related genes	2005/01/01~ 2005/04/30	DOH	2,035,000	DOH94-TD-G-111-006
The rapid and reliable method for Severe Acute Respiratory Syndrome (SARS) and related viral atypical pathogen detection by oligonucleotide microarray	2003/12/01~ 2004/11/30	NSC	8,376,000	NSC92-2751-B-002-003-Y
Microarray Core Facility for Genomic Medicine	2002/01/16~ 2005/04/30	NSC	83,678,000	NSC91-3112-P-002-005-Y NSC91-3112-P-002-017-Y NSC93-3112-B-002-026-Y
A transcriptional factor Slug is a novel invasion/metastasis promoter in lung cancer	2003/01/01~ 2004/12/31	DOH	4,548,000	NHRI92A1-NSCLC10-5 NHRI93A1-NSCLC10-5
Gene Therapy of Lung Cancer Using Antisense 2”-O-Methyl RNA	2002/08/01~ 2005/07/31	NSC	3,504,700	NSC91-2314-B-002-220 NSC92-2314-B-001-221 NSC93-2314-B-001-022
Functional characterization of invasion /metastasis associated genes - collapsin response mediator protein-1 in lung cancer	2001/08/01~ 2004/07/31	NSC	3,574,700	NSC90-2314-B-001-003 NSC91-2314-B-001-011 NSC92-2314-B-001-007

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3. Lam KL, Yang PC: Lung Cancer: Diagnosis and Staging. *In*: Respiratory Medicine an Asian Perspective. Hong Kong University Press, 2005. P. 423-35.