

Dr. Yu-Chuan, Lu M.D., Ph.D.  
No.7, Chung Shan S. Rd. ( Zhongshan S. Rd. ) , Zhongzheng Dist., Taipei City  
10002, Taiwan (R.O.C.)  
National Taiwan University Hospital  
Tel/Fax :+886-5-5323911/+886-23219145  
E-mail: charleslu0115@gmail.com

---

## **CURRICULUM VITAE**

Date of Birth: January 15th 1984  
City of Birth: Chiayi city, Taiwan  
Nationality: Taiwan  
Marital Status: Married

## **EDUCATION**

2016/9 – 2020/2 Ph.D.  
Institute of Biomedical Engineering, National Taiwan University  
(國立台灣大學醫學工程學研究所博士)

2008 Certification as Medical Doctor (M.D.)

2007 – 2008 Internship at National Taiwan University Hospital, Taipei, Taiwan

2002 – 2008 Medical School at the National Taiwan University, Taipei, Taiwan  
(台灣大學醫學系)

## **Professional Training**

2007/Jun to 2008/Jun Rotating Intern  
NTU Hospital, Taipei, Taiwan

2010/Jul to 2015/Jun Urological Resident  
NTU Hospital, Taipei, Taiwan

## **CREDENTIALS**

Board Certification  
Urological Board, Republic of China, since 2015/Oct

## **Academic and Professional Appointments:**

2015/Jul ~ 2016/Jun Attending Urologist

Department of Urology  
National Taiwan University Hospital Yun-Lin Branch

- 2016/Jul ~ 2021/Jan Attending Urologist  
Department of Urology  
National Taiwan University Hospital
- 2016/Aug~Present Committee Member, Education Committee, Taiwan Urological Association
- 2018/Aug~2020/Aug Executive Secretary, Laparoscopic Surgery Committee, Taiwan Urological Association
- 2018/Aug~Present Secretary General, International section of Taiwan Urological Association Conference
- 2020/Aug~Present Committee Member, Laparoscopic Surgery Committee, Taiwan Urological Association
- 2021/Jan~Present Attending Urologist  
Department of Surgical Oncology  
National Taiwan University Cancer Center
- 2021/Feb~Present Assistant Professor  
Department of Urology, School of Medicine  
NTU Medical College
- 2022/March Faculty Member, IRCAD Taiwan

## Research Focus and Subspecialty

Urological surgery  
Urological oncology

## Honors and Awards

- 2014 Poster Presentation at the 29th Annual EAU Congress
- 2014 Sponsored trainee by EAU, European Urology Residents Education Programme, 2014 (歐洲泌尿科醫學會指定贊助赴歐訓練)
- 2015 Best Resident doctor in the Urological Department, National Taiwan University Hospital (台大醫院泌尿部最佳住院醫師)
- 2015 泌尿專科醫師考試 口試 第二名  
筆試 第三名
- 2016 Poster Presentation at the 31th Annual EAU Congress
- 2017 Poster Presentation at the Annual AUA Congress 2017
- 2017 EAU/TUA International Academic Exchange Programme 2017-02-05 (獲選)

歐洲與台灣泌尿科醫學會學術交流代表, 2017)

- 2019 The second Taiwan Urological Robotic and Laparoscopic Surgery Video Award, 2019 (台灣機器手臂腹腔鏡手術影片大賽優勝, 2019)
- 2021 The Fourth Taiwan Urological Robotic and Laparoscopic Surgery Video Award, 2021 (台灣機器手臂腹腔鏡手術影片大賽優勝, 2021)

## **Presentation of Scientific Original Papers**

### **European Association of Urology (EAU)**

2014

Risk factors for failure of conservative therapy in patients with emphysematous pyelonephritis

2016

Recommended initial antimicrobial therapy for emphysematous pyelonephritis : 51 cases and 14-year-experience of a tertiary referral center

### **Japanese Urological Association (JUA)**

2013

Biopsy Core Number Is the Independent Predictor of Febrile Urinary Tract Infection after Transrectal Ultrasound Guided Prostate Biopsy

2013

Emphysematous pyelonephritis: Clinical characteristics and prognostic factors

2015

Recommendation of empiric antibiotics for patients with emphysematous pyelonephritis

### **Asia-Pacific Association of Pediatric Urologists (APAPU)**

2013

Factors Associated with Re-operation in Hypospadias Surgery – A Nationwide, Population-based Study

### **International section of Taiwan Urological Association (ISTUA)**

2013

Pulmonary Septic Embolism Secondary to Penile Wound Infection Combined with Glandular Full Thickness Necrosis

### **Taiwan Urological Association (TUA)**

2012

Clinical characteristics and prognostic factors of patients with emphysematous pyelonephritis

### Articles in Academic Journals

1. Yu-Chuan Lu, Bing-Juin Chiang, Yuan-Hung Pong, Chung-Hsin Chena, Yeong-Shiau Pu, Po-Ren Hsuehb, Chao-Yuan Huang. Emphysematous pyelonephritis: Clinical characteristics and prognostic factors. *Int J Urol*. 2014 Mar;21(3):277-82. doi: 10.1111/iju.12244. Epub 2013 Aug 22.
2. Yu-Chuan Lu, Bing-Juin Chiang, Yuan-Hung Pong, Kuo-How Huang, Po-Ren Hsuehb Chao-Yuan Huang, Yeong-Shiau Pu. Predictors of failure of conservative treatment among patients with emphysematous pyelonephritis. *BMC Infect Dis*. 2014 Jul 29;14:418. doi: 10.1186/1471-2334-14-418.
3. Yu-Chuan Lu, Wei-Yi Huang, Yu-Fen Chen, Hong-Chiang Chang, Yuan-Hung Pong, Tsung-Hsien Shih, Kuo-How Huang. Factors associated with reoperation in hypospadias surgery — A nationwide, population-based study. *Asian Journal of Surgery*. 2016 Jan 26. pii: S1015-9584(15)00115-3. doi: 10.1016/j.asjsur.2015.07.010.
4. Yu-Chuan Lu, Jian-Hua Hong, Bing-Juin Chiang, Yuan-Hung Pong, Po-Ren Hsueh, Chao-Yuan Huang, Yeong-Shiau Pu. Recommended initial antimicrobial therapy for emphysematous pyelonephritis : 51 cases and 14-year-experience of a tertiary referral center. *Medicine (Baltimore)*. 2016 May;95(21):e3573. doi: 10.1097/MD.0000000000003573.
5. Jian-Hua Hong, Yu-Chuan Lu (corresponding author) ,Shuo-Meng Wang Penile MSSA infection associated dry penile gangrene and pulmonary septic emboli *Am J Med Sci*. 2016 <http://dx.doi.org/10.1016/j.amjms.2016.05.006>
6. Yuan-Hung Pong, Ming-Hung Kao, Yu-Chuan Lu, Ivy Chung-Yung Lee, Ju-Ton Hsieh, Vincent FS Tsai, Hong-Chiang Chang. The Biochemical and Pathological Correlates of Successful Semen Cryopreservation From Patients with Testicular Cancer: a Single Tertiary Center Experience. *Urology*. 2015 Nov 20. pii: S0090-4295(15)01062-6. doi: 10.1016/j.urology.2015.11.015.
7. Yuan-Hung Pong, Wei-Yi Huang, Yu-Chuan Lu, Vincent FS Tsai, Yu-Fen Chen, Hong-Chiang Chang, I-Ni Chiang, Kuo-How Huang. Temporal trend of newly diagnosed incidence, medical utilization, and costs for pediatric urolithiasis, 1998-2007: a nationwide population-based study in Taiwan. *Urology*. 2015 Jan;85(1):216-20. doi: 10.1016/j.urology.2014.09.008.
8. Yuan-Hung Pong, Yu-Chuan Lu, Vinscent F.S. Tsai, Chao-Yuan Huang. Pelvic hematoma following transrectal ultrasound-guided prostate needle biopsy: A case report and literature review. *Urological science*. 2013 Aug 1. DOI: 10.1016/j.urols.2013.08.002
9. Yuan-Hung Pong, Yu-Chuan Lu, Vinscent F.S. Tsai, Pei-Lin Huang, et al. Acute manic and psychotic symptoms following subcutaneous leuprolide

acetate in a male patient without prior psychiatric history: A case report and literature review. *Urological science*. 2013 Feb 25  
doi:10.1016/j.urols.2013.05.010

10. Tseng CS, Chiang IN, Hong CH, Lu YC, Hong JH, Chang HC, Huang KH, Pu YS. Advantage of early orchiopexy for undescended testis: Analysis of testicular growth percentage ratio in patients with unilateral undescended testicle. *Sci Rep*. 2017 Dec 12;7(1):17476. doi: 10.1038/s41598-017-17825-w.
11. Tseng CS, Tai TE, Hong CH, Chen CH, Chiang IN, Lu YC, Hung SC, Huang KH, Huang CY, Chang HC, Pu YS, Chow PM. Trifecta outcome of ureteral reconstruction in iatrogenic injury and non-iatrogenic ureteral lesions: a 10-year experience at a tertiary referral center. *World J Urol*. 2018 Dec 11. doi: 10.1007/s00345-018-2600-4.
12. Cheng YT, Chiang CH, Pu YS, Liu SP, Lu YC, Chang YK, Chang HC, Huang KH, Lee YJ, Chow PM, Hung SC, Huang CY. The application of p2PSA% and prostate health index in prostate cancer detection: A prospective cohort in a Tertiary Medical Center. *J Formos Med Assoc*. 2019 Jan;118(1 Pt 2):260-267. doi: 10.1016/j.jfma.2018.05.001. Epub 2018 May 18.
13. Tseng CS, Huang KH, Kuo MC, Hong CH, Chen CH, Lu YC, Huang CY, Pu YS, Chang HC, Chiang IN. The impact of primary location and age at orchiopexy on testicular atrophy for congenital undescended testis. *Sci Rep*. 2019 Jul 1;9(1):9489. doi: 10.1038/s41598-019-45921-6.
14. Yu-Chuan Lu, Chao-Yuan Huang, Huei-Ming Yeh, Jian-Hua Hong, Chao-Hsiang Chang, Chih-Hsin Muo, Shiu-Dong Chung, Teng-Kai Yang, Fu-Shan Jaw, Chi-Jung Chung. Associations between peripheral thromboembolic Vascular Disease and Androgen Deprivation therapy in Asian prostate cancer patients. *Sci Rep*. 2019 Oct 2;9(1):14231. doi: 10.1038/s41598-019-50522-4.
15. Hong JH, Huang CY, Chang CH, Muo CH, Jaw FS, Lu YC (co-corresponding author), Chung CJ. Different androgen deprivation therapies might have a differential impact on cognition - An analysis from a population-based study using time-dependent exposure model. *Cancer Epidemiol*. 2020 Feb;64:101657. doi: 10.1016/j.canep.2019.101657.
16. Cheng YT, Huang CY, Chen CH, Chiu ST, Hong JH, Pu YS, Liu SP, Lu YC, Chang YK, Chang HC, Huang KH, Lee YJ, Chow PM, Chiang IN, Hung SC, Chiang CH. Preoperative %p2PSA and Prostate Health Index Predict Pathological Outcomes in Patients with Prostate Cancer Undergoing Radical Prostatectomy. *Sci Rep*. 2020 Jan 21;10(1):776. doi: 10.1038/s41598-020-57618-2.
17. Yu-Chuan Lu, Ming-Chieh Kuo, Jian-Hua Hong, Fu-Shan Jaw, Chao-Yuan Huang, Jason Chia-Hsien Cheng, Hsiu-Ni Kung. Lower postoperative natural killer cell activity is associated with positive surgical margins after radical prostatectomy. *J Formos Med Assoc*. 2020 Feb 17. pii: S0929-6646(20)30001-2

18. Hong JH, Lee PAH, Lu YC, Huang CY, Chen CH, Chiang CH, Chow PM, Jaw FS, Wang CC, Huang CY, Wang TW, Liu JH, Wang HT. Acrolein contributes to urothelial carcinomas in patients with chronic kidney disease. *Urol Oncol*. 2020 May;38(5):465-475. doi: 10.1016/j.urolonc.2020.02.017. Epub 2020 Mar
19. Lu YC, Huang CY, Lu YC, Huang KH, Chow PM, Chang YK, Hung FC, Chen CH, Jaw FS, Hong JH. Association between low prostate-specific antigen levels and greater disease progression in high-grade locally-advanced prostate cancer. *J Formos Med Assoc*. 2021 Jan;120(1 Pt 2):483-491. doi: 10.1016/j.jfma.2020.06.021. Epub 2020 Jun 23.
20. Ho CH, Lu YC, Fan CK, Yu HJ, Liu HT, Wu CC, Chen KC, Liu SP, Cheng PC. Testosterone regulates the intracellular bacterial community formation of uropathogenic *Escherichia coli* in prostate cells via STAT3. *Int J Med Microbiol*. 2020 Oct;310(7):151450. doi: 10.1016/j.ijmm.2020.151450. Epub 2020 Aug 29.
21. Lin PH, Huang CY, Yu KJ, Kan HC, Liu CY, Chuang CK, Lu YC, Chang YH, Shao IH, Pang ST. Genomic characterization of clear cell renal cell carcinoma using targeted gene sequencing. *Oncol Lett*. 2021 Feb;21(2):169. doi: 10.3892/ol.2021.12430. Epub 2021 Jan 4.
22. Chiu ST, Cheng YT, Pu YS, Lu YC, Hong JH, Chung SD, Chiang CH, Huang CY. Prostate Health Index Density Outperforms Prostate Health Index in Clinically Significant Prostate Cancer Detection. *Front Oncol*. 2021 Nov 19;11:772182. doi: 10.3389/fonc.2021.772182. eCollection 2021.
23. Pong YH, Chang YK, Hsu CE, Chen PC, Lu YC, Tsai VFS, Chang HC, Lo MT, Lin C. Probing penile hemodynamics by using photoplethysmography as objective indicators for male erection quality and sexual function. *Sci Rep*. 2021 Jun 8;11(1):12019. doi: 10.1038/s41598-021-91582-9.
24. Hong JH, Tong ZJ, Wei TE, Lu YC, Huang CY, Huang CY, Chiang CH, Jaw FS, Cheng HW, Wang HT. Cigarette smoke containing acrolein contributes to cisplatin resistance in human bladder cancers through the regulation of HER2 pathway or FGFR3 pathway. *Mol Cancer Ther*. 2022 Mar 21;molcanther.0725.2021. doi: 10.1158/1535-7163.MCT-21-0725.
25. Smith MR, Scher HI, Sandhu S, Efsthathiou E, Lara PN Jr, Yu EY, George DJ, Chi KN, Saad F, Ståhl O, Olmos D, Danila DC, Mason GE, Espina BM, Zhao X, Urtishak KA, Francis P, Lopez-Gitlitz A, Fizazi K; GALAHAD investigators. Niraparib in patients with metastatic castration-resistant prostate cancer and DNA repair gene defects (GALAHAD): a multicentre, open-label, phase 2 trial. *Lancet Oncol*. 2022 Mar;23(3):362-373. doi: 10.1016/S1470-2045(21)00757-9. Epub 2022 Feb 4.

## National Science and Technology Program (科技部專題研究計畫)

年度	補助類別	學門代碼	計畫名稱
----	------	------	------

108	專題研究計畫 (新進人員研究畫)	泌尿	自然殺手細胞活性於前列腺癌預後的應用及探索自然殺手細胞與腫瘤衍生外泌體交互作用之關鍵因子
109	專題研究計畫 (新進人員研究畫)	泌尿	研究自然殺手細胞於泌尿上皮腫瘤微環境之角色與腫瘤免疫治療的應用

**National Taiwan University Hospital Research Program (臺大醫院院內研究計畫)**

年度	計畫代碼	計畫名稱
106	106-N3659	探討自然殺手細胞用於預測高風險攝護腺癌術後復發之角色
108	108-N4340	前列腺癌手術前後腫瘤衍生外泌體與自然殺手細胞的交互作用
109	109-N4764	以手術前後自然殺手細胞活性作為泌尿道上皮癌之預後和復發機率分析
110	110-N5131	利用體外培養系統探究前列腺癌衍生之胞外小體調節自然殺手細胞活性之機制

**National Taiwan University Cancer Center Research Program (臺大癌醫中心分院院內研究計畫)**

年度	計畫代碼	計畫名稱
111	NTUCCS – 111-20	探索前列腺癌胞外小體中控制自然殺手細胞活性的微小 RNA

Taipei, April 17th, 2022  
Yu-Chuan, Lu