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日期：2021/12/25 (Sat) 13:10-14:10

地點：台中榮民總醫院 教學大樓 2F 208 會議室

座長：唐一清、林登龍、莊耀吉、王弘仁

Code	Time	Topic	Speaker
SF2-1	13:10-13:20	抉擇:名校 vs.名師	林威宇
SF2-2	13:20-13:30	快樂的出航，望你早歸！	蒙恩
	13:30		

2021-12-25 G. 教學2F VR Room 208

時間	主題	講者	座長	簡報	錄影
13:10 ~ 13:20	抉擇:名校 vs.名師	林威宇	唐一清, 林登龍, 莊耀吉, 王弘仁		
13:20 ~ 13:30	快樂的出航，望你早歸！	蒙恩	唐一清, 林登龍, 莊耀吉, 王弘仁		



Taiwan Urological Association

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神農(Ashie)の吃城城園
<http://www.ashie.com.tw>

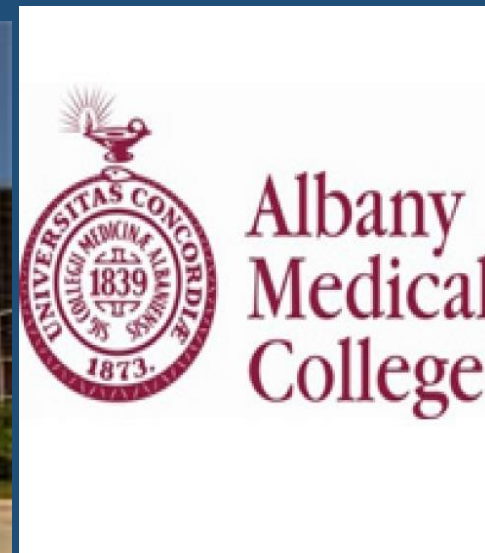
出國進修

抉擇：名校 VS 名師

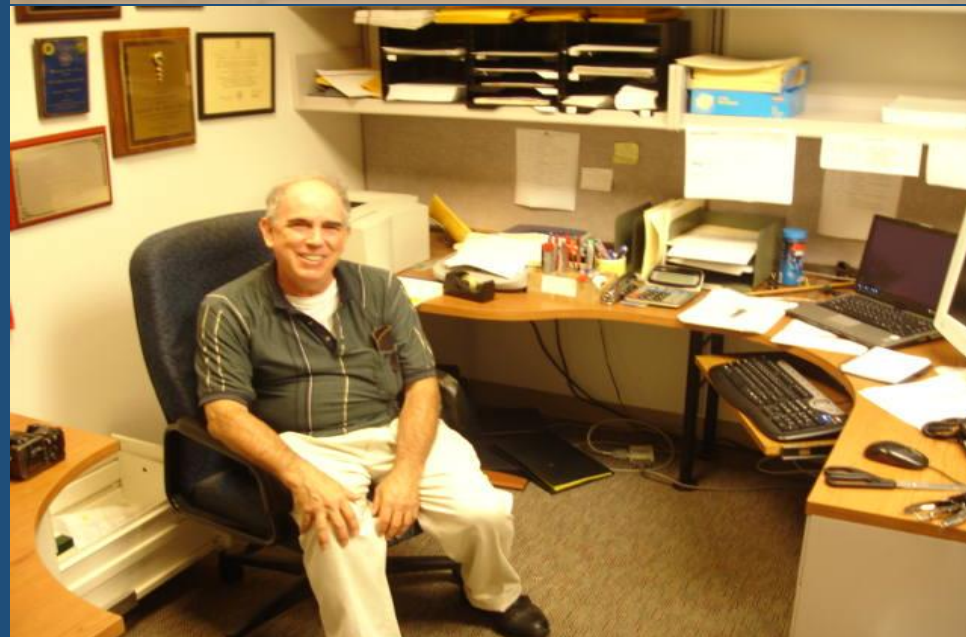
林威宇醫師 嘉義長庚醫院



抉擇: 名校 VS 名師

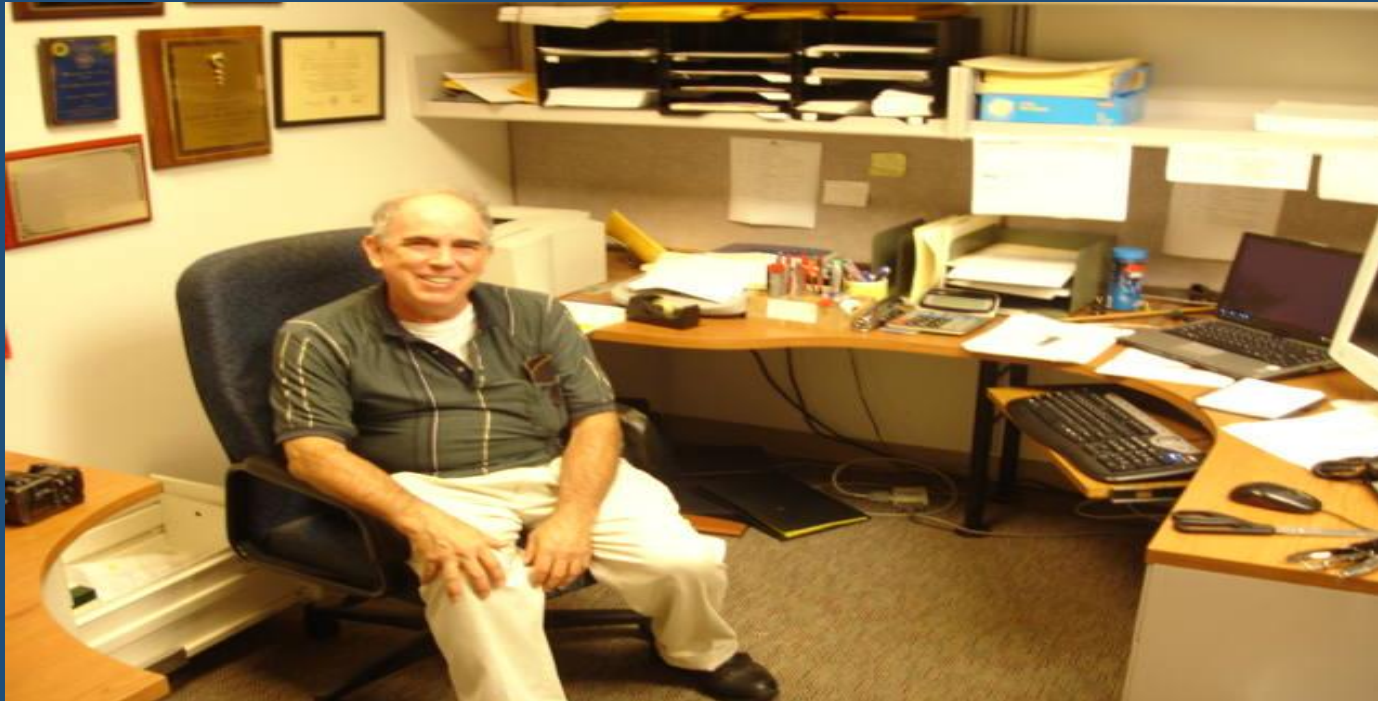


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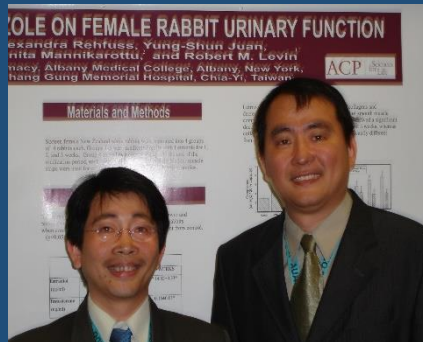


Rober M Levin

Robert M, Levin, MD, PhD



- 1976-1998
Research Professor ,
University of Pennsylvania
- 1996- Professor,
Albany Medical College
- Original Paper: 405
- Review and Chapter :59
- Topic:
Bladder Outlet Obstruction





Albany
Medical
College

Albany Medical Center
Urology Department

Lifetime Achievement Award



Barry A. Kogan, MD

For outstanding leadership and contributions to the practice, science and education of pediatric urology

- 1 Morning Meeting (Paper Reading, Dr. Kogan)
- 2 Surgery (Pediatric, Female Urology)
- 3 OPD
- 4 Dinner Lecture (Paper Reading, CR)
- 5 Annual Men's Health Forum
- 6 Master Lecture

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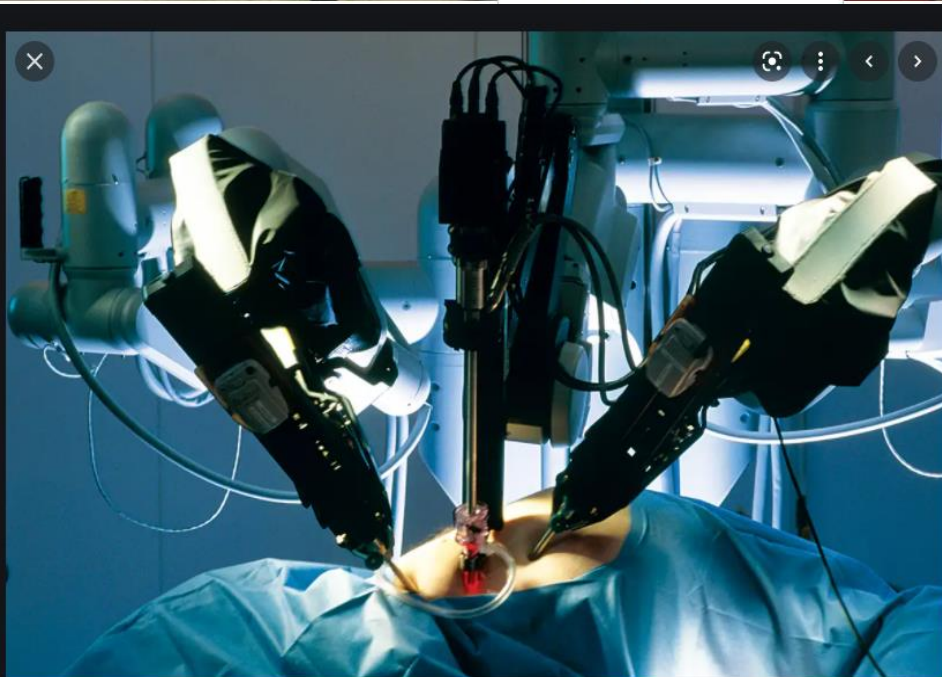
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St Peter's Hospital

Patients & Visitors

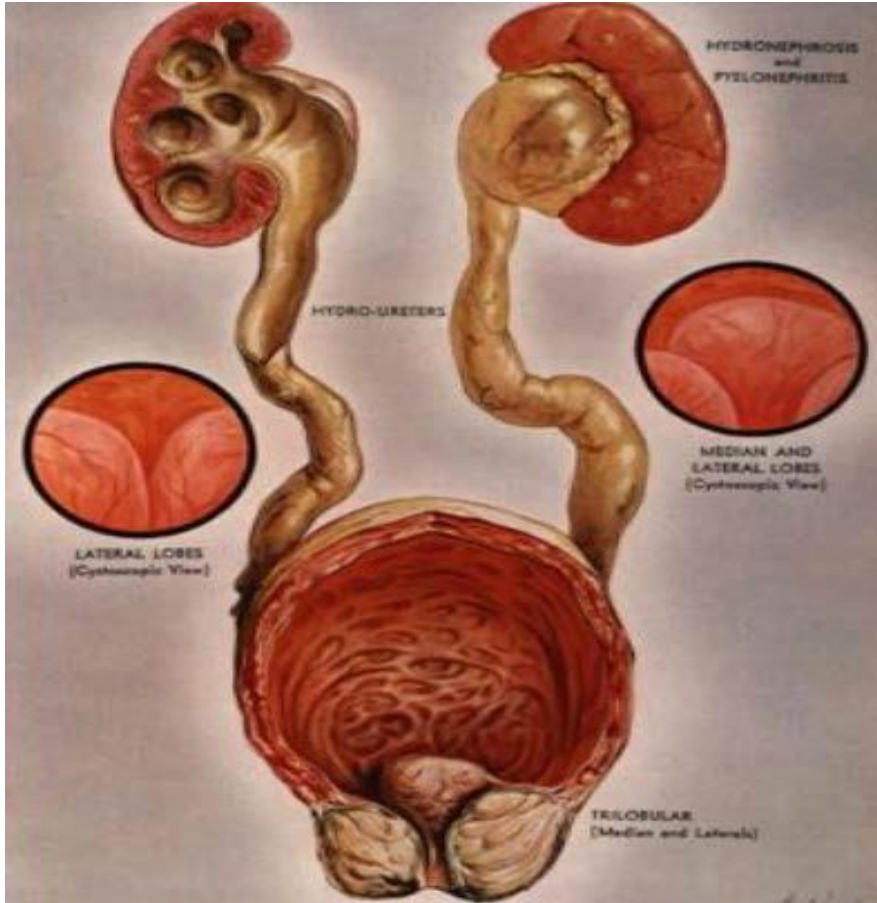
St. Peter's Hospital



Dr. Ted & Robotic surgery

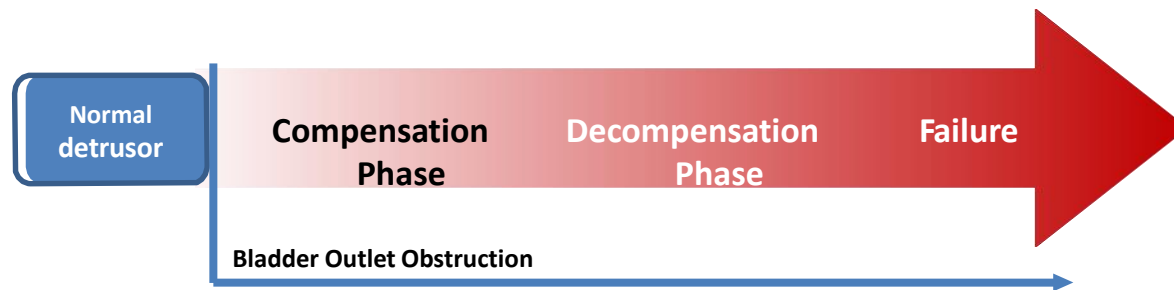


Natural history of Obstructive Uropathy



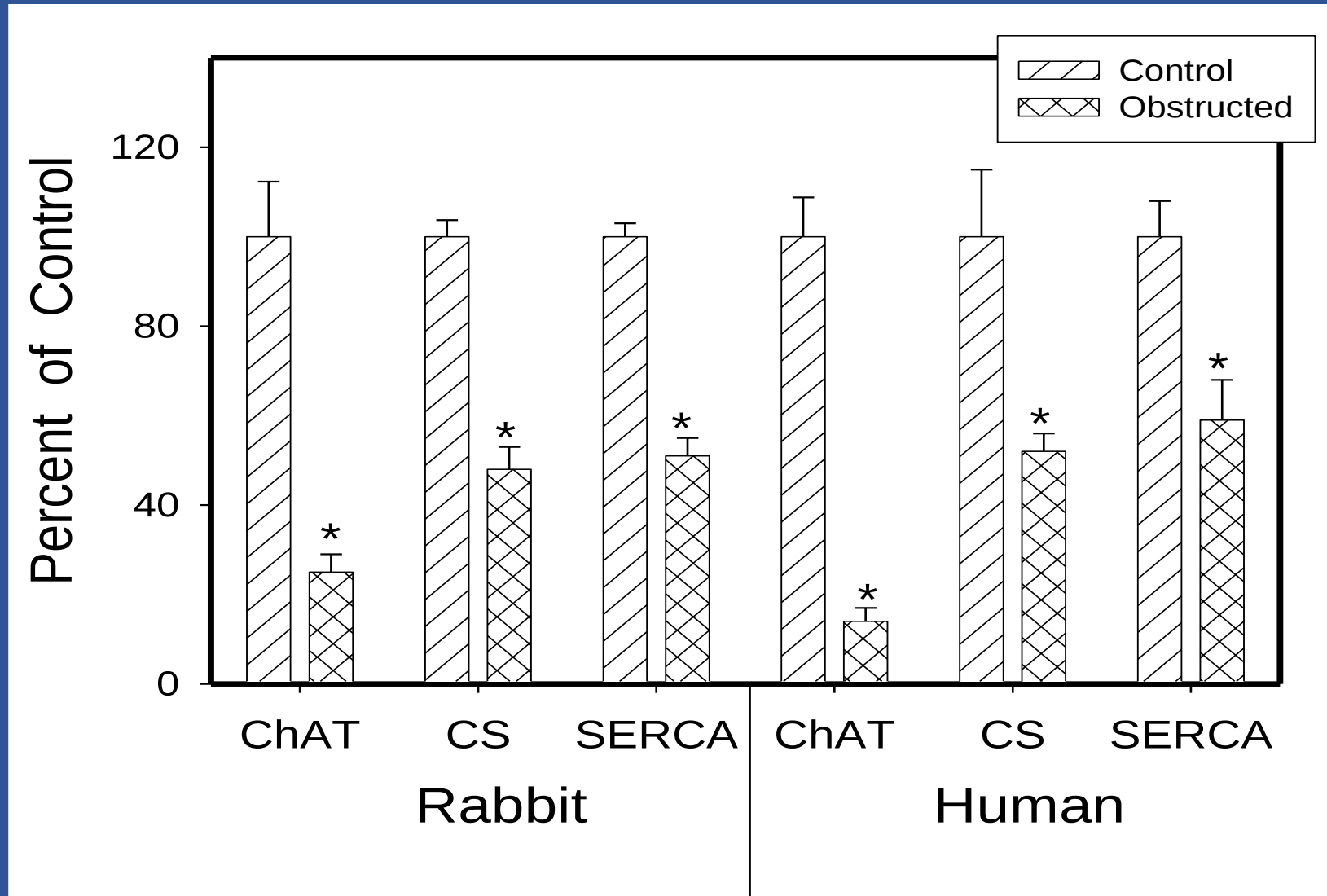
The bladder, like the heart, is a hollow muscular organ that receives fluid and forcefully expels it

Like the heart, it reacts to an increasing work load by going through the successive phases of compensation and finally decompensation



Emil A. Tanagho et al., Smith's General Urology, 17th Edition
Elmissiry MM., et al., Arab J Urol. 2014

PBOO in Rabbit vs. BPH in Man



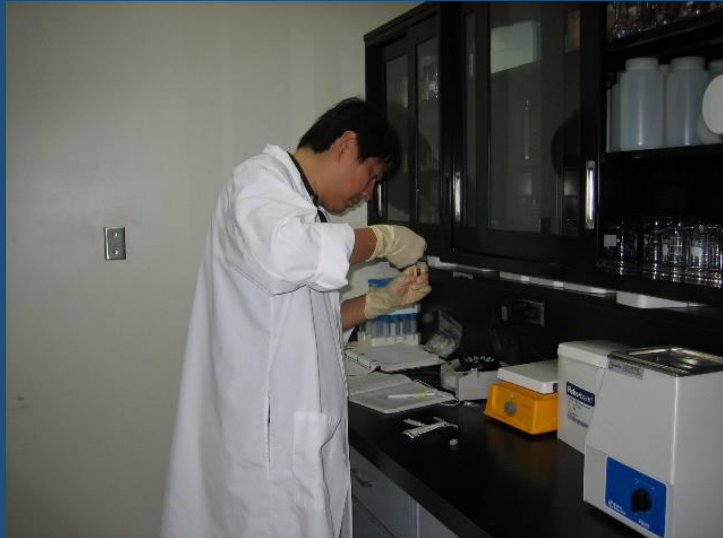
Aims of study

Robert M, Levin, MD, PhD

- Identify etiology of obstructive bladder dysfunction in rabbits
- Compare directly with obstructive bladder disease secondary to BPH in man.
- Develop effective therapeutics for the treatment of obstructive bladder dysfunction

Surgery to Create Partial Bladder Outlet Obstruction





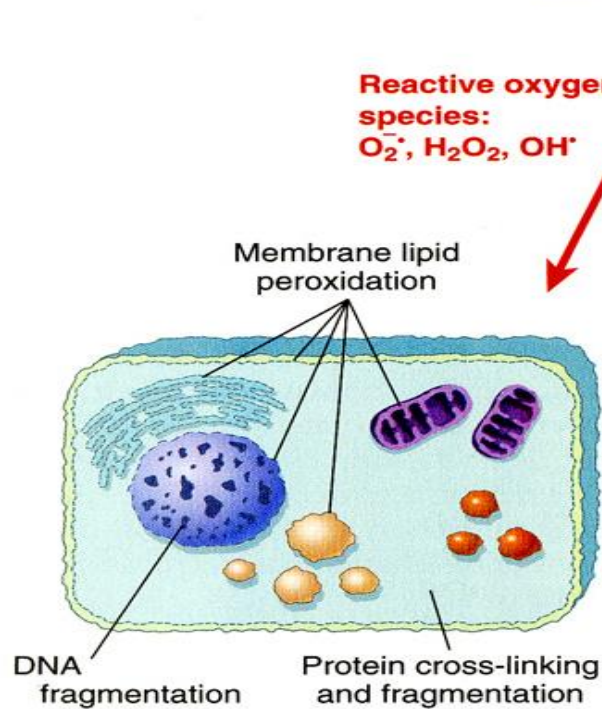
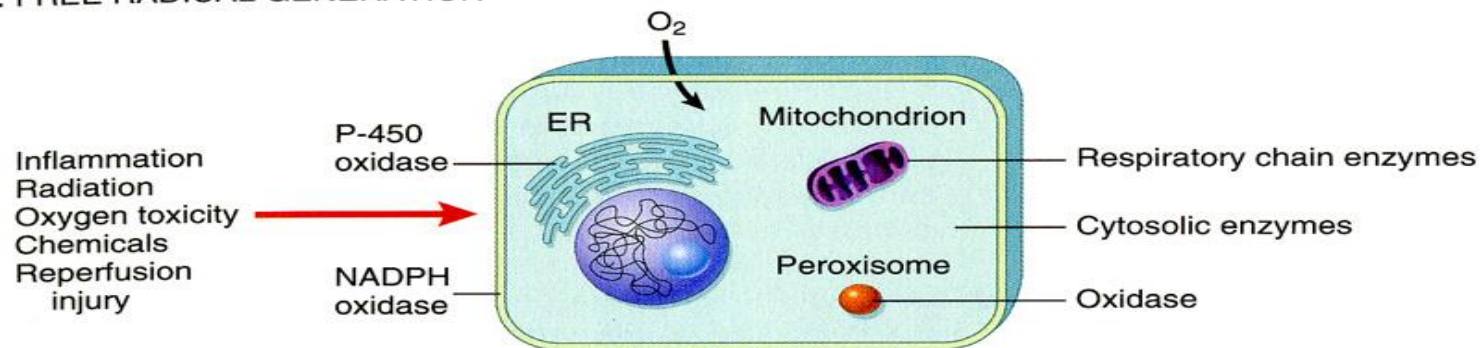
Thousand Island



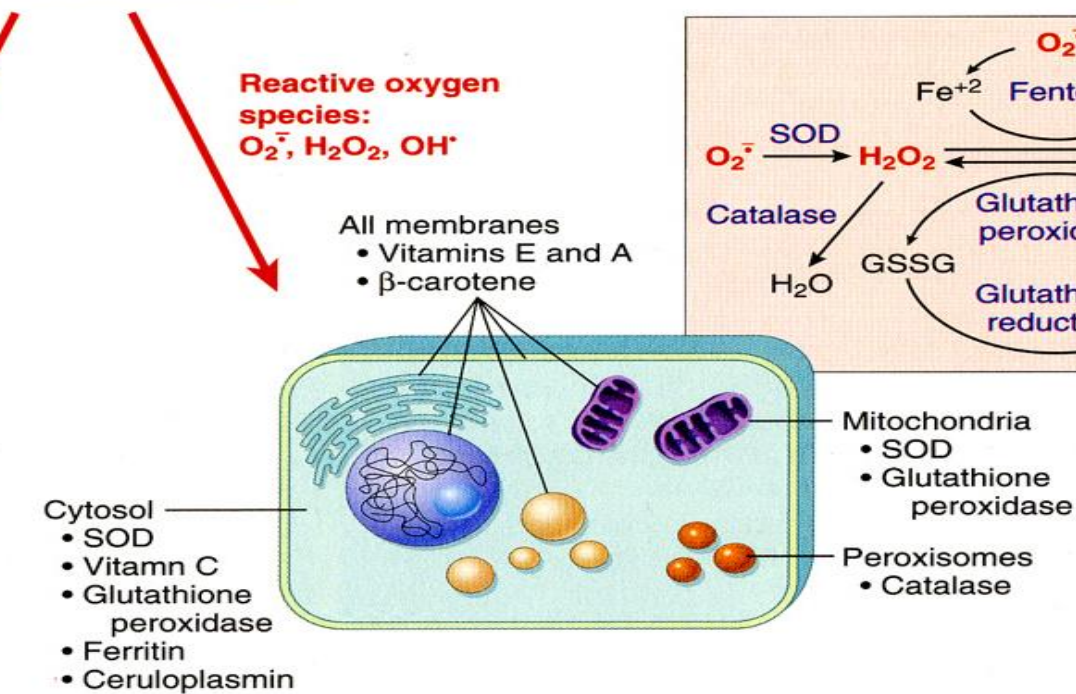
Free Radical Damage as a Biomarker
of *Bladder Dysfunction* Following
Partial Outlet Obstruction and Reversal

Free Radicals

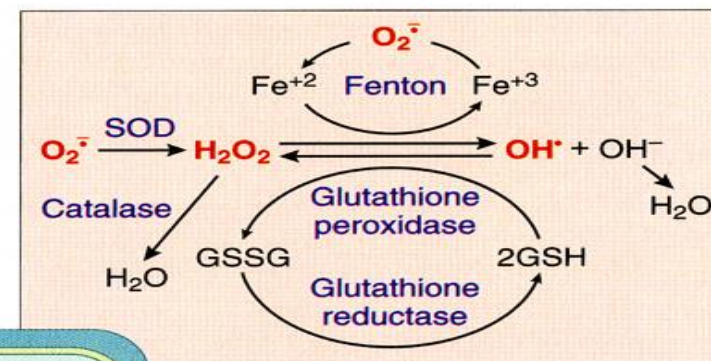
A. FREE RADICAL GENERATION



B. CELL INJURY BY FREE RADICALS



C. NEUTRALIZATION OF FREE RADICALS – NO CELL INJURY









Methods

- 24 adult male New Zealand White rabbits (15~20 weeks old)
- Group 1 - sham controls
 - 2 - obstruction 4 weeks
 - 3 - obstruction 4 weeks +reversed 4 weeks
 - 4 - obstruction 4 weeks +reversed 8 weeks
- A mild obstruction placing a silicon ring

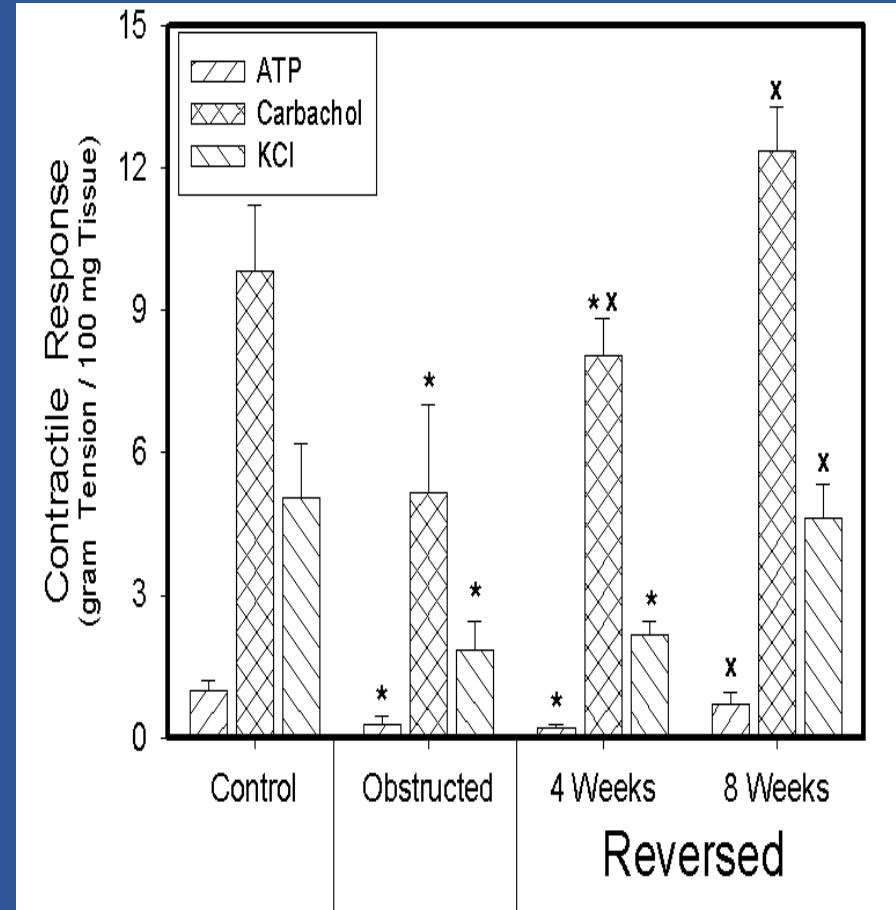
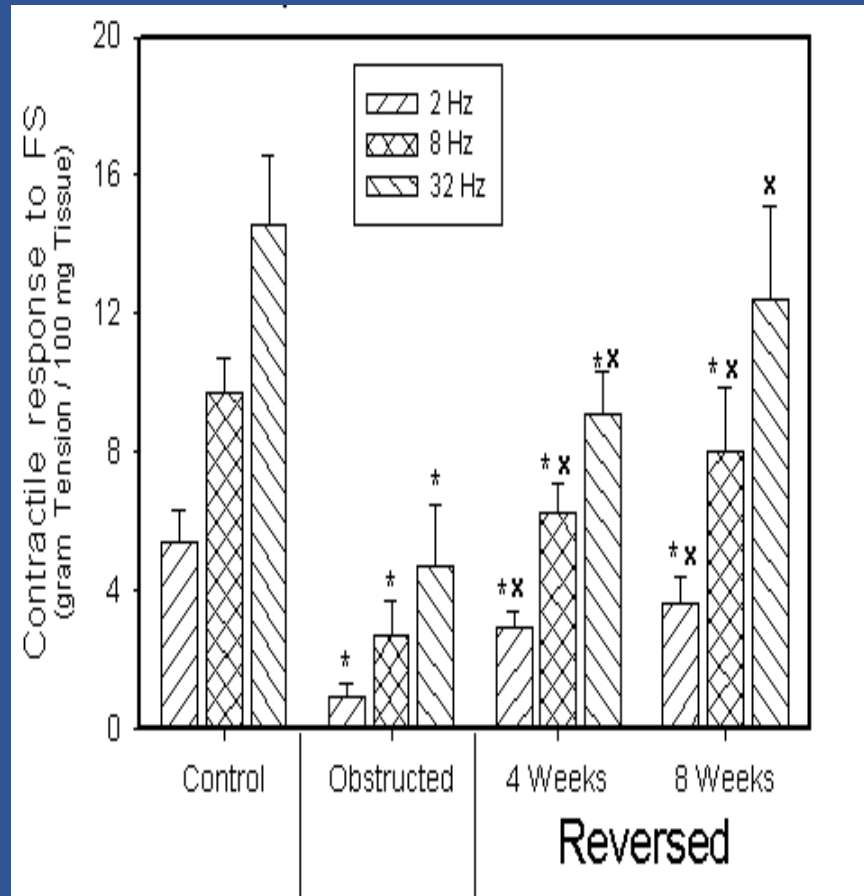
Methods

- ***Cystometry***
micturition pressure, volume at micturition, and compliance
- ***Bladder Mass***
Bladder volume x 1.2 = Bladder weight
- ***Physiology***
Field Stimulation, ATP, Carbachol , KCl
- ***Histology***
SM / Collagen ratio (Masson's Trichrome Kit)
Neurofilament staining
- ***Western Blotting***
Carbonylation & nitrotyrosination of proteins

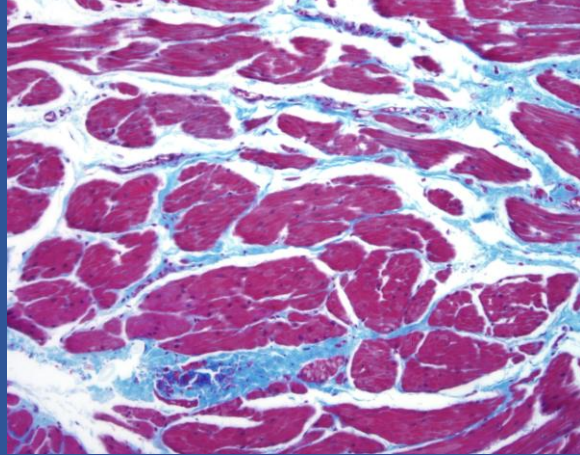
Contractile response to

Field Stimulation

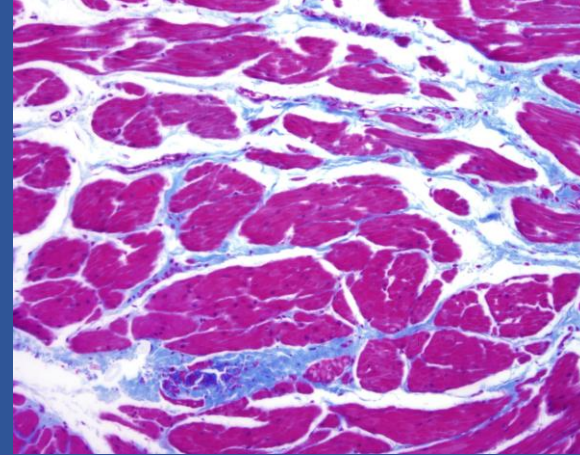
ATP, Carbachol, KCL



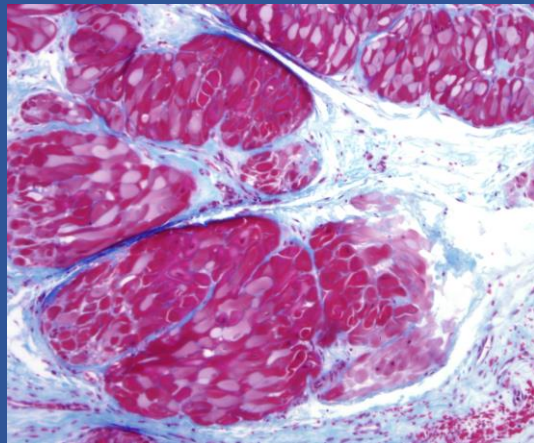
Masson's Trichrome Staining



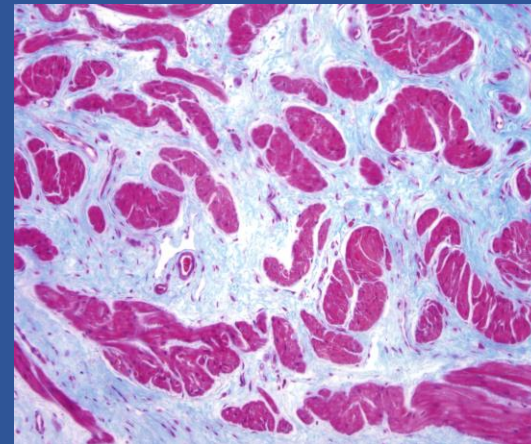
control



Reverse 4 weeks

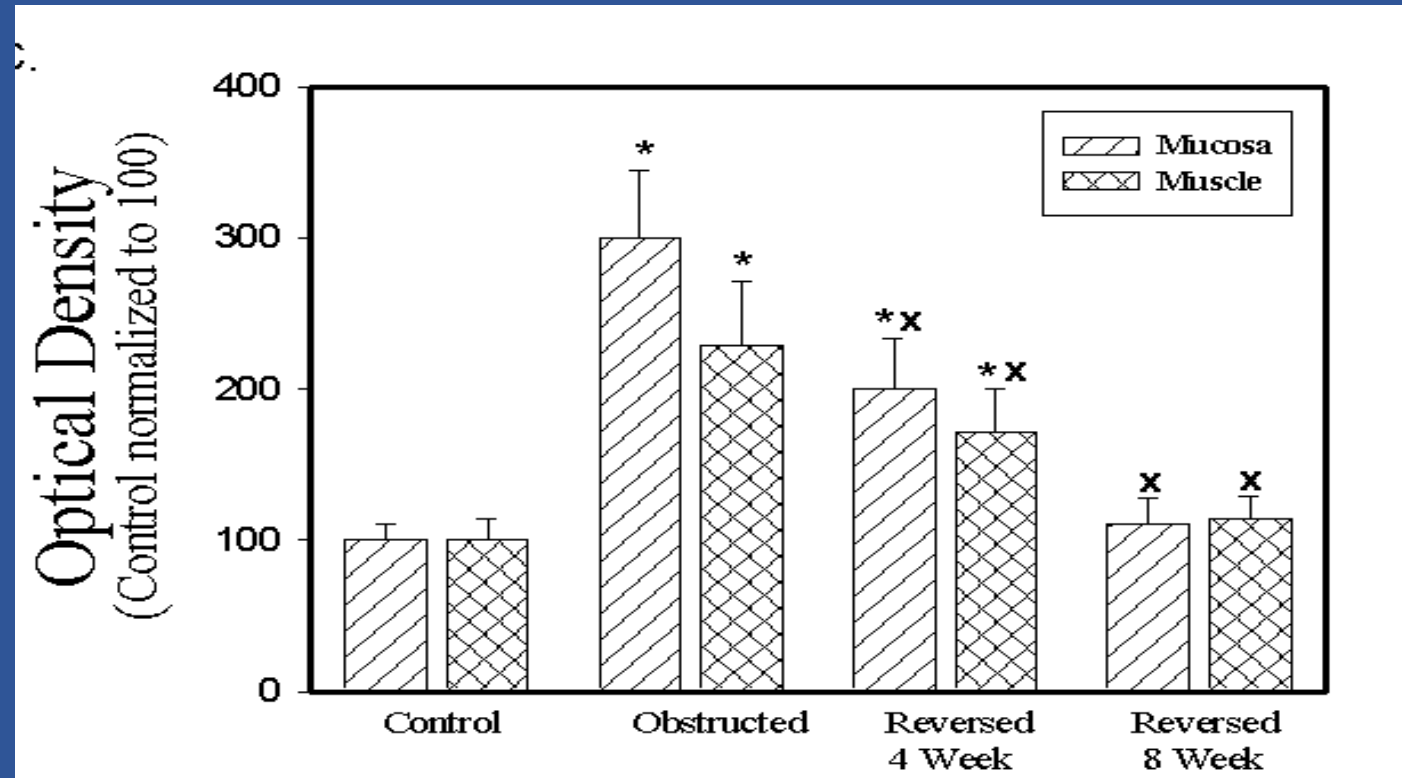
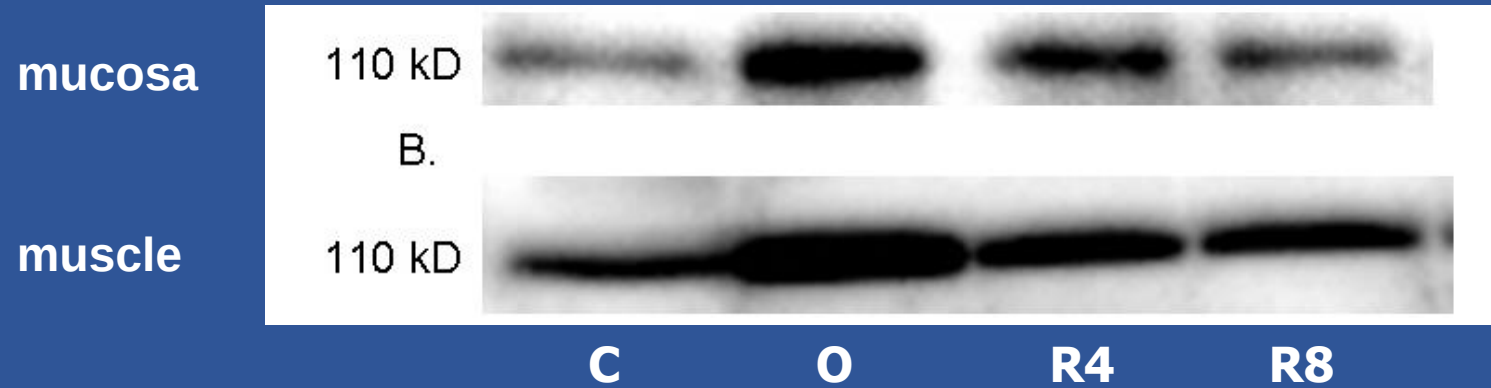


Obstruction



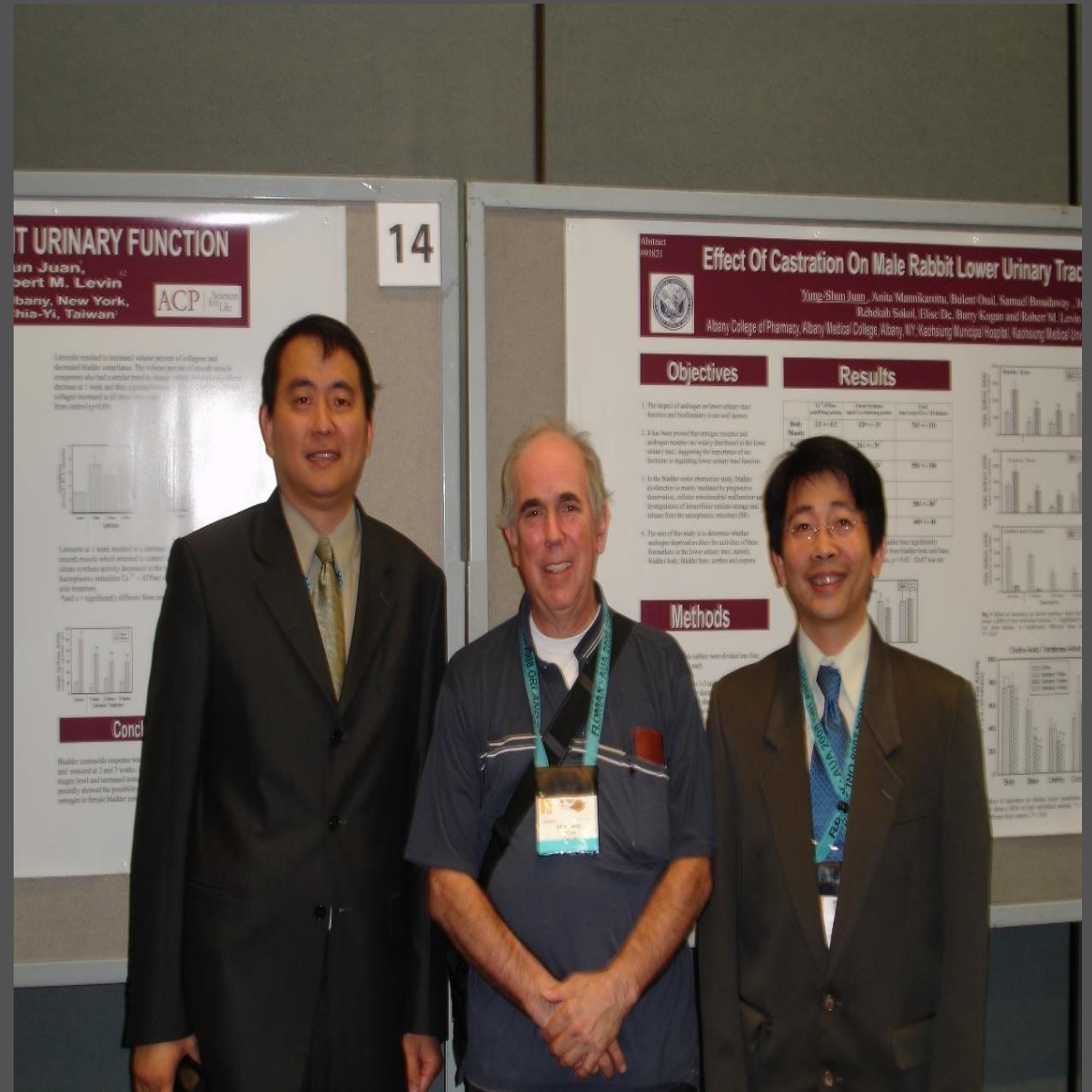
Reverse 8 weeks

Expression of carbonylation



Conclusion

Our long-term goal is to determine if we can grade the degree of bladder dysfunction in humans with bladder outlet obstruction by monitoring protein oxidation and nitration.



A. 學術論文發表

1. Lin WY, Mannikarottu A, Chichester P, Neuman P, Johnson A, Pérez-Martínez FC, Levin RM* The effect of chronic partial bladder outlet obstruction on corpus cavernosum smooth muscle and RHO-Kinase in rabbits. **Neurourology and urodynamics**. 2008;(27-28):826-831. (IF= 2.903)
2. Lin WY, Radu F, Schuler C, Leggett RE, Mannikarottu A, Levin RM* The effect of ovariectomy and oestrogen therapy on the free fatty acid content , endogenous lipase activity , and phospholipid content of the rabbit urinary bladder. **BJU International**. 2008;(102):1209-1213. (IF= 3.19)
3. Juan YS, Mannikarottu A, Schuler C, Lin WY, Huang CH, Levin RM* The immediate effect of nitric oxide on the rabbit bladder after ovariectomy **Nitric Oxide**. 2008 Nov;19(3):289-94. Epub 2008 Jun 21 (IF= 3.384)
4. Lin WY, Li S, Leggett R, Strassner J, Sokol R, Schuler C, Juan YS, Javed Z, Kogan B, Levin RM, Mannikarottu A* Estrogen administration attenuates bladder outlet obstruction induced oxidative stress in the female rabbit. **Neurourology and urodynamics**. 2009;(28):95-100. (IF= 2.903)
5. Juan YS, Lin WY, Guven A, Mannikarottu A, Levin RM* Expression of parathyroid hormone-related protein in the partially obstructed and reversed rabbit bladder. **Int Urol Nephrol**. 2009;41(3):505-11. (IF= 1.567)
6. Li S, Hydery T, Juan Y, Lin WY, Kogan B, Mannikarottu A, Leggett RE, Schuler C, Levin RM* The effect of 2- and 4-week ovariectomy on female rabbit urinary bladder function **Urology**. 2009 Sep;74(3):691-6. (IF= 2.334)
7. Lin WY, Mannikarottu A, Li S, Juan YS, Schuler C, Javed Z, Blaivas J, Levin RM Correlation of in vivo bladder blood flow measurements with tissue hypoxia **World J Urol**. 2011;29(2):165-170. Epub 2009 Feb 4 (IF= 2.438)



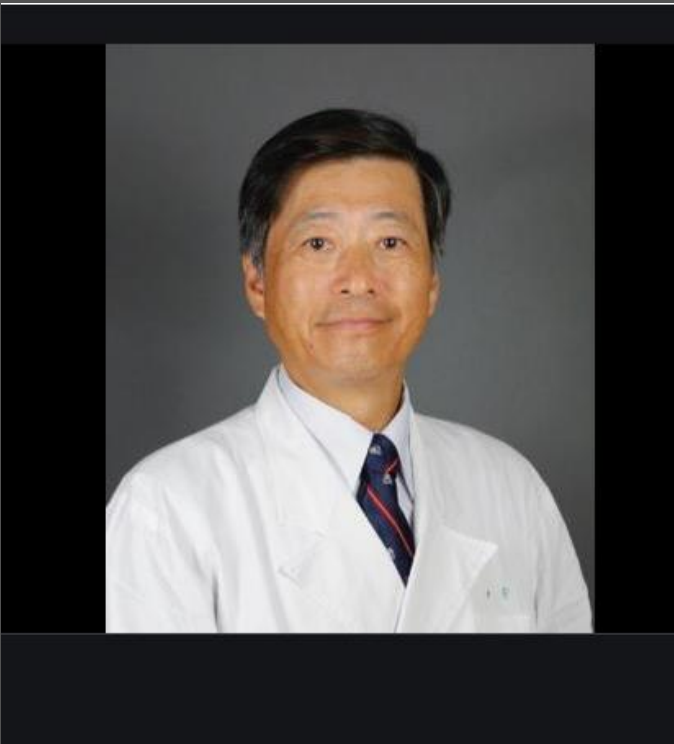
之誕生 - 唐一清教授



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立台灣大學醫學院附設醫院

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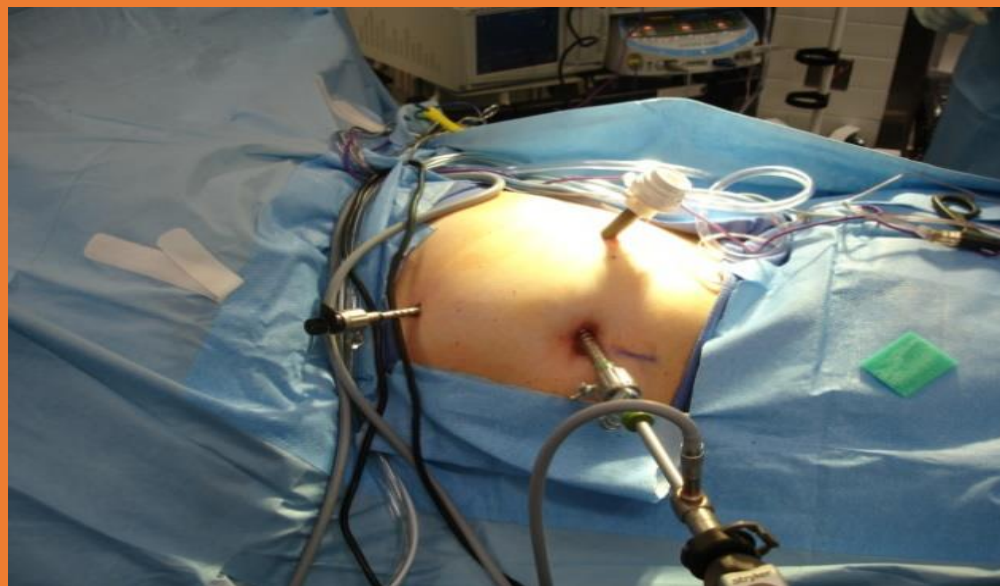
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2/18 嘉義長庚 × 故宮南院
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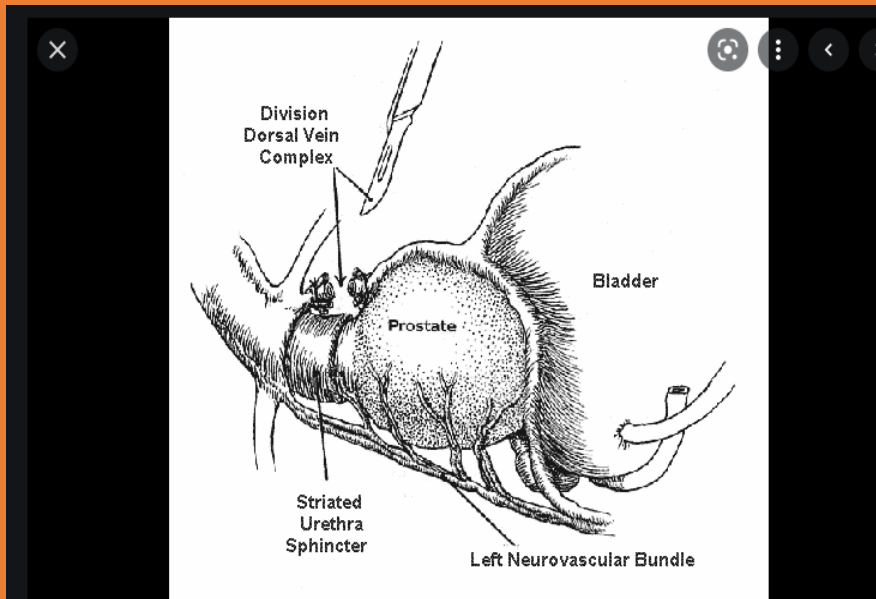
UNIVERSITY

Li-Ming Su, M.D.

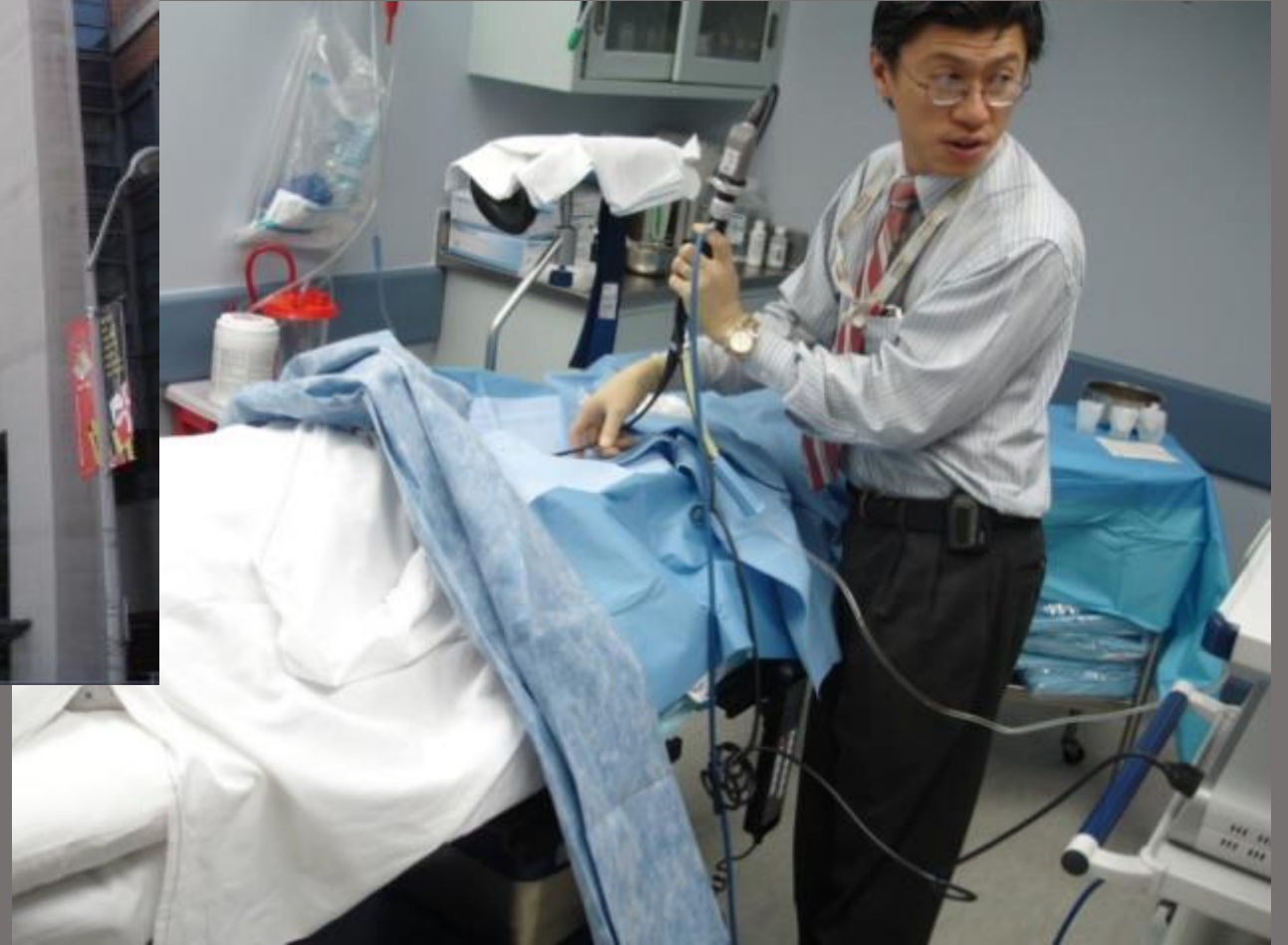




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千里之行，始於足下

--老子