

# ANTHONY J. BELLA, MD, FRCS(C)

ASSISTANT PROFESSOR AND DIRECTOR OF BASIC UROLOGIC RESEARCH  
DIVISION OF UROLOGY, DEPARTMENT OF SURGERY  
UNIVERSITY OF OTTAWA, CANADA

ASSOCIATE SCIENTIST, NEUROSCIENCE  
OTTAWA HEALTH RESEARCH INSTITUTE, UNIVERSITY OF OTTAWA, CANADA

## EDUCATION

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### Doctor of Medicine

McMaster University, Hamilton, Ontario, May 1999

### Bachelor of Science in Biology and Chemistry (Honors)

*With Distinction and Gold Medalist, Biology*

Wilfrid Laurier University, Waterloo, Ontario, 1996

## PROFESSIONAL EXPERIENCE

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### American Urological Association Foundation *Robert J. Krane* Research Scholar

#### RCPSC *Detweiler* Traveling Fellow

University of California, San Francisco

Preceptor: Dr. Tom F. Lue

2005-2007

### Urology Residency

University of Western Ontario

2001-2005

### General Surgery Residency

McMaster University

1999-2001

## PROFESSIONAL CERTIFICATIONS

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Licensure of the Medical Council of Canada

December 2000

Registration Number 87928

Royal College of Physicians and Surgeons Canada

June 2005

Identification No. 572365 Specialty – Urology

State of California Medical and Surgical Licensure

May 2006

Certificate Number A95663

## PEER-REVIEWED RESEARCH GRANTS

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1. **Prostate Cancer Research Foundation of Canada**      **\$50 685**  
**Principal Investigator (2007-2008)**  
“Molecular mechanisms for cavernous nerve neuroprotection and regeneration following injury due to prostate cancer treatment in diabetic men”

2. **Canadian Male Sexual Health Council** **\$27 000**  
**Principal Investigator (2007-2008)**  
 “Effect of diet modification on preservation of erectile function after bilateral cavernous nerve crush injury in the rat”
3. **American Urological Association Northeastern Section** **\$42 500 (USD)**  
**Principal Investigator (2008)**  
 “Molecular mechanisms of cavernous nerve regeneration following prostate cancer treatment in men with metabolic syndrome”
4. **Canadian Foundation for Innovation (CHIR)** **\$166 000**  
**Principal Investigator (2008)**  
 “Determining the mechanisms of cavernous nerve neuroprotection and nerve regeneration”

## INDUSTRY-SPONSORED RESEARCH GRANTS

1. **ACORDA Therapeutics** **\$45 000 pending**  
**Principal Investigator (2008)**  
 “Molecular mechanisms for cavernous nerve neuroprotection and regeneration for neuregulin and chondroitinase following injury due”

## ACADEMIC AWARDS AND HONOURS

2007-2008 Canadian Urological Association Scholar Award (\$40 000)

2007 American Urological Association Foundation Outstanding Graduate Research Scholar

2007 Sexual Medicine Society of North America Annual Meeting, Chicago  
*Basic Science Research Research Prize.* **Bella AJ**, Lin G, Banie L, Tantiwongse K, Brant WO, Lue TF. Decreased in vivo brain-derived neurotrophic factor (BDNF) expression in aged rats following cavernous nerve axotomy: a molecular target for enhancing nerve recovery

59th Congress of the German Society of Urology (Deutsche Gesellschaft für Urologie), Berlin, *1st Prize Clinical Poster.* Fandel TM, **Bella AJ**, Lin G, Tantiwongse K, Thüroff JW, Pohl J, Lue TF. Intracavernous injection of growth differentiation factor-5 (GDF-5) enhances recovery of erectile function in a dose-dependent fashion after cavernous nerve (CN) injury.

2007 cont'd

*California Urology Foundation Research Award* (\$5000) - **Bella AJ**  
 The effects of adipose-derived stem cells (ADSCs) upon cavernous nerve recovery following injury: in vitro enhancement of neurite growth and ADSC neuron-like differentiation, and in vivo potentiation of erectile function in the rat

62<sup>nd</sup> Canadian Urological Association Annual Meeting, Quebec City

*Male Health – Best Poster (tie)* **Bella AJ**, Lin G, Banie L, Tantiwongse K, Brant WO, Lue TF. In vivo brain derived neurotrophic expression and timing patterns in aged rats following cavernous nerve axotomy

*Male Health – Best Poster (tie)* Fandel TM, **Bella AJ**, Lin G, Tantiwongse K, Lue TF. Liquid microparticle delivery of intracavernous growth differentiation factor-5 therapy enhances the recovery of erectile function in a rat model of cavernous nerve injury

2006 61<sup>st</sup> Canadian Urological Association Annual Meeting, Halifax Clinical Essay 1<sup>st</sup> Prize  
Lim KB, DeYoung L, Gan BS, **Bella AJ**, Brock GB. The development of a prognostic tool for Peyronie's disease.

58<sup>th</sup> Conference of the German Urological Association Hamburg, 2<sup>nd</sup> Prize Basic Science  
Fandel T, **Bella AJ**, Tantiwongse K, et al. Growth differentiation factor-5 (GDF-5) enhances recovery of penile erection after cavernosal nerve crush injury in the rat.

2005-2007 American Urological Association Foundation Robert J Krane Research Scholar (\$120 000)

2005 Royal College of Physicians and Surgeons *Detweiler Travelling Fellowship* Award (\$21 000)

American Urological Association *Gerald P. Murphy/Praecis* Scholar in Prostate Disease

University of Western Ontario Jack Wyatt Urology Residents' Research Day *3rd Prize*  
**Bella AJ**, DeYoung LX, Brock GB. Predicting clinical progression in Peyronie's disease: a novel molecular marker.

2004 56<sup>th</sup> Annual Meeting of the Northeastern Section AUA *2nd Prize Essay* and  
University of Western Ontario Residents Research Day *1st Prize*  
Touma NJ, Chin JL, **Bella AJ**, Sener A, Izawa JI: Location of a positive biopsy as a predictor of surgical margin status in radical prostatectomy.

2003 University of Western Ontario Resident Travel Award  
University of Western Ontario Residents Research Day *1<sup>st</sup> Prize*  
**Bella AJ**, Gabriel M, Moussa M, et al. The characterization of the angiogenic switch in prostate adenocarcinoma development and progression in a transgenic murine model.

2002 University of Western Ontario Residents Research Day *1<sup>st</sup> Prize*  
**Bella AJ**, Chin JL, and Izawa JI: The prognostic significance of metastatic perivesical lymph nodes following radical cystectomy for transitional cell carcinoma of the bladder.

1996 Wilfrid Laurier University Alumni *Gold Medallist*, Highest Standing Biology  
Canadian Interuniversity Athletic Union *CLAU Academic All-Canadian*, Ice Hockey

1994 National Sciences and Engineering Council Undergraduate Research Award

1992 Stephen J. Liptay Scholarship  
NCR Foundation Scholarship  
Wilfrid Laurier University Centennial Anniversary Scholarship  
Canada Scholarship in Science and Technology

## PUBLICATIONS

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1. Fandel TF, Bella AJ, Lin G, Tantiwongse K, Lin C-S, Pohl J, Lue TF. Intracavernous growth differentiation factor-5 therapy enhances the recovery of erectile function in a rat model of cavernous nerve injury. *J Sex Med* 2008 *in press*
2. **Bella AJ**, Lin GT, Cagiannos I, Lue TF. Emerging neuromodulatory molecules for the treatment of neurogenic erectile dysfunction caused by cavernous nerve injury. *Asian J Androl* 10 (1); 54-60, 2008
3. Hayashi N, **Bella AJ**, Wang G, Deng D, Nunes L, Lue TF. The effect of estrogen on the mechanism of urinary incontinence in a rat model of stress urinary incontinence. *CUAJ* 1(3): 256-263, 2007
4. **Bella AJ**, DeYoung L, al-Numi M, Brock GB. Daily administration of phosphodiesterase-5 inhibitors for urologic and non-urologic indications. *Eur Urol* 52(4): 990-1005, 2007
5. **Bella AJ**, Lue TF. Words of wisdom. Re: Feasibility of the use of phosphodiesterase type 5 inhibitors in a pharmacologic prevention program for recurrent priapism. *Eur Urol* 52(3): 918-919, 2007
6. **Bella AJ**, Perelman MA, Brant WO, Lue TF. Peyronie's disease. *J Sex Med* 4: 1527-1538, 2007
7. Brant WO, Brock GB, Lue TF, Gerridzen RG, **Bella AJ**. Salvage strategies for nonresponders to phosphodiesterase-5 inhibitor treatment for erectile dysfunction in the aging male. *Aging Health* 3(4): 527-542, 2007
8. Domes T, De Young L, Gan BS, **Bella AJ**, Brock GB. The role of proteomics in Peyronie's disease. *J Sex Med* 4(4 Pt 1): 867-877, 2007
9. **Bella AJ**, Lin G, Garcia MM, Tantiwongse T, Lin CS, Brant WO, Lue TF. Upregulation of penile brain-derived neurotrophic factor (BDNF) and activation of the JAK/STAT signaling pathway in the major pelvic ganglion of the rat following cavernous nerve transection *European Urology* 52(2): 574-581, 2007
10. Brant WO, **Bella AJ**, Lue TF. Treatment options for erectile dysfunction. *Endo Metabol Clin NA* 36(2): 465-479, 2007
11. **Bella AJ**, Fandel TM, Tantiwongse K, Brant WO, Klein R, Garcia CA, Lue TF. Neurturin enhances the recovery of erectile function following bilateral cavernous nerve crush injury in the rat *J Brachial Plex Peripher Nerve Inj* 2:5, 2007
12. **Bella AJ**, Hayashi N, Carrion R, Price R, Lue TF. FK1706 enhances functional recovery following bilateral cavernous nerve crush injury in a rat model *J Sex Med* 4: 341-347, 2007
13. Brant WO, **Bella AJ**, Lue TF. 16-dot procedure for penile curvature *J Sex Med* 4: 277-281, 2007

14. Breyer B, Garcia MM, Brant WO, **Bella AJ**, Lue TF. Outcomes and complications of porcine small intestinal submucosal graft in the surgical management of Peyronie's disease. *J Urol* 177(2): 589-591, 2007
15. Brant WO, **Bella AJ**, Garcia MM, Tantiwongse K, Dean RC, Lue TF. Isolated septal fibrosis or hematoma: atypical Peyronie's disease? *J Urol* 177(1): 179-183, 2007
16. **Bella AJ**, Sener A, Foell K, Brock GB. Non-palpable scarring of the penile septum as a cause of erectile dysfunction: an atypical form of Peyronie's disease. *J Sex Med* 4(1):226-230, 2007
17. Brant WO, **Bella AJ**, Lue TF. Erectile and sexual dysfunction in the aging diabetic male. *Aging Health* 2(6): 1025-1034, 2006
18. **Bella AJ**, Beasley KA, Obied A, Brock GB. Minimally invasive intracorporeal incision of Peyronie's plaque: initial experiences with a new technique *Urology* 68(4):852-7, 2006
19. **Bella AJ**, Brock GB. Strategies for PDE-5 Failures. *Geriatrics and Aging* 9(Suppl 9); 9-15, 2006
20. **Bella AJ**, Brant WO, Lue TF, Brock GB. Non-arteritic anterior ischemic optic neuropathy (NAION) and phosphodiesterase type-5 inhibitors. *Can J Urol* 13(5); 3233-3238, 2006
21. **Bella AJ**, Lin G, Tantiwongse K, Garcia M, Lin CS, Brant W, Lue TF. Brain-derived neurotrophic factor (BDNF) acts primarily via the JAK/STAT pathway to promote neurite growth in the major pelvic ganglion of the rat: Part 1. *J Sex Med* 3:815-820, 2006
22. Lin G, **Bella AJ**, Lue TF, Lin CS. Brain-derived neurotrophic factor (BDNF) acts primarily via the JAK/STAT pathway to promote neurite growth in the major pelvic ganglion of the rat: Part 2. *J Sex Med* 3:821-829, 2006
23. Fandel T, **Bella AJ**, Tantiwongse K, Garcia M, Nunes L, Thuroff JW, Tanagho EA, Lue TF. The effect of intracavernous growth differentiation factor-5 in a rat model of cavernous nerve injury. *BJU Int* 98(3):632-636, 2006
24. **Bella AJ**, Brant WO, and Brock GB. Contemporary intracavernous pharmacotherapy for erectile dysfunction in the aging male. *Aging Health* 2(4): 559-570, 2006
25. Parfitt JR, **Bella AJ**, Wehrli B. Primary PEComa of the bladder treated with primary excision and adjuvant interferon-alpha immunotherapy: a case report. *BMC Urol* Aug 22;6(1):20, 2006.
26. Parfitt JR, **Bella AJ**, Izawa JI, Wehrli B. Malignant Neoplasm of Perivascular Epithelioid Cells of the Liver:. *Arch Path Lab Med* 130(8): 1219-1222, 2006.
27. Brant WO, **Bella AJ**, Garcia MM, Tantiwongse K, Lue TF. Surgical Atlas. Correction of Peyronies Disease: Plaque Incision and Grafting. *BJU Int* 97: 1353-60, 2006
28. Touma NJ, Chin JL, **Bella T**, Sener A, Izawa JI. Location of a positive biopsy as a predictor of surgical margin status and extra-prostatic disease in radical prostatectomy. *BJU Int* 97: 259-262, 2006

29. **Bella AJ** and Brock GB: Tadalafil: a clinical update. *Aging Health* 1(2):203-213, 2005
30. DeYoung LX, **Bella AJ**, Howard JC, and Brock GB: Arteriogenic erectile dysfunction alters protein expression within the cavernosal tissue in an animal model. *J Sex Med* 2: 199-206, 2005
31. Sener A, Wehrli B, Bramwell V, **Bella AJ**, and Izawa JI: Retroperitoneal liposarcoma and Li-Fraumeni syndrome: a case report and review of management options. *UroOncology*, 4: 161-65, 2005
32. **Bella AJ** and Brock GB. Tadalafil: a comprehensive update. *J Drug Eval* 2(8): 225-246, 2004
33. **Bella AJ**, and Brock GB: Intracavernous pharmacotherapy for erectile dysfunction. *Endocrine*, 23(2-3): 149, 2004
34. **Bella AJ**, and Brock GB: Tadalafil in the treatment of erectile dysfunction. *Curr Urol Rep*, 4(6): 472, 2003
35. **Bella AJ**, Stitt LW, Chin JL, and Izawa, JI: The prognostic significance of metastatic perivesical lymph nodes identified in radical cystectomy specimens for transitional cell carcinoma of the bladder. *J Urol* 170 (6): 2253, 2003
36. Chin JL, Touma N, Moussa M, Guram KS, **Bella AJ**, Downey D: Serial histopathology results of salvage cryoablation for prostate cancer after radiation failure. *J Urol*, 170(4): 1199, 2003
37. **Bella AJ**, Winquist Eric W, and Perlman Elizabeth J: Primary synovial sarcoma of the kidney diagnosed by molecular detection of SYT-SSX fusion transcripts. *J Urol*, 168(3): 1092, 2002

## CHAPTERS

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1. **Bella AJ**, Brant WO, Brock GB, Lue TF. Neurotransmitters in the corpus cavernosum: nitric oxide and beyond. In *Textbook of Erectile Dysfunction 2<sup>nd</sup> Edition*, eds. Carson, Kirby and Goldstein. Informa UK, *in press* 2008
2. **Bella AJ**, Brant WO, Lue TF. Microscopic anatomy of erectile function. In *Textbook of Erectile Dysfunction 2<sup>nd</sup> Edition*, eds. Carson, Kirby and Goldstein. Informa UK, *in press* 2008
3. **Bella AJ**, Brock GB. Tadalafil: the long-acting PDE5 inhibitor. In *Textbook of Erectile Dysfunction 2<sup>nd</sup> Edition*, eds. Carson, Kirby and Goldstein. Informa UK, *in press* 2008
4. Brant WO, **Bella AJ**, Lue TF. Anatomy of erectile function. In *Textbook of Erectile Dysfunction 2<sup>nd</sup> Edition*, eds. Carson, Kirby and Goldstein. Informa UK, *in press* 2008
5. Brock GB, **Bella AJ**. Penile blood flow determination: Doppler studies. In *Textbook of Erectile Dysfunction 2<sup>nd</sup> Edition*, eds. Carson, Kirby and Goldstein. Informa UK, *in press* 2008
6. **Bella AJ**, Brant WO, Lue TF. Future Therapies Applicable To Post-Radical Pelvic Surgery Patients. In: *Sexual Function In The Prostate Cancer Patient*. Mulhall JP ed, New Jersey: Humana Press, *in press* 2008

7. Brant WO, **Bella AJ**, Lue TF. Peyronie's disease. In: *Up To Date*, Rose BD (ed), *UpToDate*, Waltham, Ma, *in press 2008*.
8. Brant WO, **Bella AJ**, Lue TF. Reconstructive surgery for corporovenous occlusive dysfunction in *Textbook of Reconstructive Urologic Surgery*. Montague, Angermeier, Gill and Ross, eds. Informa UK, *in press 2008*
9. **Bella AJ**, Brant WO, Lue TF. Peyronie's disease: vein graft in *Textbook of Reconstructive Urologic Surgery*. Montague, Angermeier, Gill and Ross, eds. Informa UK, *in press 2008*
10. **Bella AJ**, Brant WO, Lue TF. Penile Vascular Surgery in *Hinman's Atlas of Urologic Surgery*, 3<sup>rd</sup> edition. Hinman F ed. B Saunders Philadelphia, *in press 2008*
11. Brant WO, **Bella AJ**, Lue TF. Correction of Peyronie's Disease in *Hinman's Atlas of Urologic Surgery*, 3<sup>rd</sup> edition. Hinman F, ed B Saunders, Philadelphia, *in press 2008*
12. **Bella AJ**, Brant WO, Lue TF. Anatomy of the penis in *Medical Radiology – Diagnostic Imaging, Color Doppler US of the penis*. Bertolotto M, ed. Springer-Verlag GmbH, *in press 2007*
13. **Bella AJ**, Brant WO, Lue TF. Physiology of penile erection and pathophysiology of erectile dysfunction in *Medical Radiology – Diagnostic Imaging, Color Doppler US of the penis*. Bertolotto M, ed. Springer-Verlag GmbH, *in press 2007*
14. Brant WO, **Bella AJ**, Lue TF. Peyronie's disease: etiology and management in *Medical Radiology – Diagnostic Imaging, Color Doppler US of the penis*. Bertolotto M, ed. Springer-Verlag GmbH, *in press 2007*
15. **Bella AJ**, Lue TF. Surgical management of Peyronie's Disease in *Grand Rounds in Urology*, Carden Jennings Publishing Co., Ltd., Greensboro NC, 2007
16. **Bella AJ** and Lue TF. Male Sexual Dysfunction, in *Smith's General Urology 17<sup>th</sup> Edition*, Tanagho EA, ed.. Lange/McGraw Hill New York, pp 598-610, 2008
17. Tanagho EA, **Bella AJ** and Lue TF. Neuropathic bladder disorders, in *Smith's General Urology 17<sup>th</sup> Edition*, Tanagho EA, ed. Lange/McGraw Hill New York, pp 438-454 2008 *in press*
18. Tanagho EA, **Bella AJ**, and Lue TF. Urinary Incontinence, in *Smith's General Urology 17<sup>th</sup> Edition*, Tanagho EA, ed. Lange/McGraw Hill New York, pp 473-489, 2008
19. Brant WO, **Bella AJ**, Garcia MM, Lue TF: Vascular surgery for erectile dysfunction, in *Male Sexual Dysfunction*, ed. Mulcahy JJ, 2<sup>nd</sup> edition. New Jersey: Humana Press, pp 419-434, 2006
20. **Bella AJ** and Brock GB: Minimally invasive intracorporeal incisional for Peyronie's plaque, in *Peyronie's Disease*, edited by L. Levine, Humana Press October 2006
21. Brant WO, **Bella AJ**, Garcia MM, Lue TF: Priapism in *Emergencies in Urology*, Hohenfellner and Santucci, eds. Heidelberg: Springer-Verlag, 2007 *in press*

22. Gholami S, Brant WO, **Bella AJ**, Lue TF. Priapism *in PocketMedicine/Internal Medicine 2<sup>nd</sup> edition* Scharschmidt BF ed., New York NY, 2006
23. Gholami S, Brant WO, **Bella AJ**, Garcia MM, Lue TF. Erectile Dysfunction, *in PocketMedicine/Internal Medicine 2<sup>nd</sup> edition* Scharschmidt BF ed., New York NY, 2006
24. **Bella AJ**, Lue TF, Hellstrom W. Phosphodiesterase type-5 inhibitors, *in Men's Sexual Health Consult Collection*, Quadrant Media, Parsippany, NJ, 2006
25. Brant WO, **Bella AJ**, Lue TF. Chapter 37: Sexual Function in Diabetics, *in Diabetes and Carbohydrate Metabolism (serial online)*, www.endotext.org. McLachlan S, editor. Dartmouth, MA: MDText.com Inc., 2006
26. Bochinski D, Brant WO, **Bella AJ**, Lue TF. Chapter 8: Medical and Surgical Management of Erectile Dysfunction, *Reproductive Endocrinology (serial online)*, www.endotext.org. McLachlan S, editor. Dartmouth, MA: MDText.com Inc., 2006
27. Brant WO, **Bella AJ**, Garcia MM, Lue TF. Priapism: Etiology, diagnosis and management, *in American Urological Association Update Series*, Linthicum MD, Vol. 25:11, 2006

## **PUBLISHED ABSTRACTS**

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1. **Bella AJ**, Lin G, Banie L, Tantiwongse K, Brant WO, Lue TF. Decreased in vivo brain-derived neurotrophic factor (BDNF) expression in aged rats following cavernous nerve axotomy: a molecular target for enhancing nerve recovery. *J Sex Med* 2007, *in press*
2. **Bella AJ**, Lue TF, Phonsombat S, Brant WO, Nehra A. Initial experience with 50 patients using the new AMS 700 with MS pump series inflatable penile prosthesis. *J Sex Med* 2007, *in press*
3. Wilson S, **Bella A**, Delk J, Henry G, Jones L, Zafar F, Moncada I. Dilatation is not necessary for insertion of the new AMS 700 MS. *J Sex Med* 2007, *in press*
4. Brant W, **Bella AJ**, Lue TF. Prosthesis fixation through a transglanular approach. *J Sex Med* 2007, *in press*
5. Brant W, **Bella A**, Phonsombat S, Yang G, Lue T. Calcified Peyronie's plaques : a follow-up study with repeated penile ultrasound. *J Sex Med* 2007, *in press*
6. **Bella AJ**, Lue TF, Brant WO, Brock GB. Extracorporeal shock-wave lithotripsy is not supported by evidence based medicine for first line treatment of Peyronie's disease. *CUAJ* 1(2): 158, abstract 2.06, 2007
7. Fandel TM, **Bella AJ**, Lin G, Tantiwongse K, Lue TF. Liquid microparticle delivery of intracavernous growth differentiation factor-5 therapy enhances the recovery of erectile function in a rat model of cavernous nerve injury. *CUAJ* 1(2): 157-58, abstract 2.04, 2007
8. **Bella AJ**, Brant WO, Lue TF, Wilson SK, Brock GB. Safety of penile prosthesis for the treatment of erectile dysfunction in solid-organ transplant patients. *CUAJ* 1(2): 188, abstract 8.01, 2007

9. **Bella AJ**, Garcia MM, Lin G, Fandel TM, Brant WO, Lue TF. Adult adipose tissue derived stem cells enhance neurite outgrowth from the major pelvic ganglion of the rat. CUAJ 1(2): 200, abstract 2.01, 2007
10. **Bella AJ**, Minor TX, Lin G, Lin C-S, Hayashi N, Lue TF. Potential mechanisms of erectile rehabilitation after radical prostatectomy: indirect effect of sildenafil on neurite outgrowth. CUAJ 1(2); 157, abstract 2.03, 2007
11. **Bella AJ**, Lin G, Banie L, Tantiwongse K, Brant WO, Lue TF. In vivo brain derived neurotrophic expression and timing patterns in aged rats following cavernous nerve axotomy. CUAJ 1(2): 157, abstract 2.01, 2007
12. **Bella AJ**, Lue TF, Phonsombat S, Brant WO, Nehra A. Early experience with the new AMS 700 with MS Pump Series Inflatable Penile Prosthesis. CUAJ 1(2): 157, abstract 2.02, 2007
13. Brant WO, **Bella AJ**, Lue TF. T-shaped cavernosum-glans shunt: a new paradigm for the surgical management of priapism. CUAJ 1(2): 201, abstract 2.14, 2007
14. Brant WO, **Bella AJ**, Lue TF. Transglanular prosthesis fixation for “floppy” glans penis. CUAJ 1(2): 201, abstract 2.15, 2007
15. **Bella AJ**, Hayashi N, Minor TX, Carrion R, Price R, Lue TF. The non-immunosuppressant ligand FK1706 enhances the recovery of erectile function following bilateral cavernous nerve crush injury in the rat. J Urol 177(4): 261, abstract 778, 2007
16. **Bella AJ**, Lue TF, Phonsombat S, Nehra A. Initial experience with the new AMS 700 with MS pump series inflatable penile prosthesis. J Urol 177(4): 313, abstract 945, 2007
17. **Bella AJ**, Minor TX, Lin G, Lin C-S, Hayashi N, Lue TF. Towards an understanding of PDE-5 post-radical prostatectomy penile rehabilitation: does sildenafil have a direct effect on major pelvic ganglion neurite outgrowth. J Urol 177(4): 90, abstract 270, 2007
18. Fandel TM, **Bella AJ**, Lin G, Tantiwongse K, Banie L, Thurhoff JW, Pohl J, Lue TF. Intracavernous growth differentiation factor-5 therapy enhances the recovery of erectile function in a rat model of cavernous nerve injury. J Urol 177(4): 225, abstract 670, 2007
19. Hayashi N, **Bella AJ**, Wang G, Deng DY, Nunes L, Lue TF. Effect of estrogen on urinary incontinence in a postpartum ovariectomized rat model. J Urol 177(4): 454, abstract 1376, 2007
20. Brant WO, **Bella AJ**, Lue TF. T-shaped cavernosum-glans shunt for priapism J Urol 177(4): 313, abstract 946, 2007
21. Garcia MM, **Bella AJ**, Lin G, Fandel TM, Tantiwongse K, Lue TF. In-vivo differentiation of autologous adipose tissue derived stem cells in to urologic tissues. J Urol 177(4): 140, abstract 420, 2007

22. Phonsombat S, Tantiwongse K, Fandel TM, Wang G, Lin G, **Bella AJ**, Lue TF. A type II diabetic rat model of diabetic voiding dysfunction. *J Urol* 177(4): 143, abstract 428, 2007
23. Nagao K, Kobayashi K, Kato T, Nakajima K, Hara H, Miura K, **Bella AJ**, Ishii N. Defining target times for intravaginal ejaculation latency and communication: results from a survey of 300 married couples. *J Urol* 177(4): 286, abstract 857, 2007
24. Brant WO, **Bella AJ**, Lue TF. T-shaped cavernosum-glans shunt for priapism. *J Sex Med* 2007; 4(Suppl 1): abstract 41, 77.
25. DiSanto ME, Chua R, **Bella AJ**, Tar M, Lowe D, Melman A. Castration and aging induce similar changes in the smooth muscle myosin isoform composition of rat corpus cavernosum. *J Sex Med* 2007;4(Suppl 1): abstract 1, 64.
26. **Bella AJ**, Lin G, Tantiwongse K, Fandel T, Brant WO, Lin CS, Lue TF. Brain-derived neurotrophic factor acts primarily via the JAK/STAT pathway to promote neurite growth in the cavernous nerve and major pelvic ganglion of the rat. *J Sex Med* 2006;3(Suppl 5): MP-018, 410.
27. **Bella AJ**, Lin G, Lue TF, Lin CS. JAK/STAT Activation mediates BDNF neurotrophic effect in major pelvic ganglial explants. *J Sex Med* 2006;3(Suppl 5): MP-019, 411.
28. **Bella AJ**, Lin G, Tantiwongse K, Garcia MM, Lin CS, Brant WO, Lue TF. Upregulation of penile brain-derived neurotrophic factor and activation of the JAK/STAT signaling pathway in the major pelvic ganglion of the rat following cavernous nerve transection. *J Sex Med* 2006;3(Suppl 5): MP-020, 411.
29. **Bella AJ**, Tantiwongse K, Fandel T, Garcia MM, Klein R, Brant WO, Lue TF. Neurturin enhances the recovery of erectile function following bilateral cavernous crush injury in the rat. *J Sex Med* 2006;3(Suppl 5): MP-021, 411.
30. Fandel T, **Bella AJ**, Tantiwongse K, Garcia MM, Nunes L, Tanagho EA, Lue TF. Growth differentiation factor-5 (GDF-5) enhances recovery of penile erection following cavernosal nerve crush injury in the rat. *J Sex Med* 2006;3(Suppl 5): OR-007, 384.
31. DeYoung L, Lim KB, **Bella A**, Gan BS, O’Gorman DB, Brock G. The pathogenesis and protein expression in Peyronie’s disease. *J Sex Med* 2006;3(Suppl 5): MP-104, 437.
32. **Bella AJ**, Lin GT, Tantiwongse K, Garcia M, Brant WO, Lin GF, Lue TF. Identification of Jak/STAT as the major pathway of BDNF-enhanced neurite growth in the major pelvic ganglion-cavernous nerve of young and aged rats. *Can J Urol* 2006; 13(3): 3109.
33. **Bella AJ**, Lin GT, Tantiwongse K, Garcia M, Brant WO, Lin GF, Lue TF. The determination of the molecular mechanism by which BDNF enhances neurite growth via Jak/STAT pathway activation in the major pelvic ganglion and cavernous nerve of the rat. *Can J Urol* 2006; 13(3): 3099.
34. **Bella AJ**, Tantiwongse K, Fandel T, Klein R, Lue TF. The effect of neurturin on the recovery of erectile function following bilateral cavernous nerve crush injury in a rat model: results from a blinded study. *Can J Urol* 2006; 13(3): 3103.

35. Fandel T, **Bella AJ**, Tantiwongse K, Garcia MM, Nunes L, Tanagho E, Lue TF. Effect of intracavernosal growth differentiation factor-5 (GDF-5) on penile erection after bilateral cavernosal crush injury in the rat. *Can J Urol* 2006; 13(3): 3099.
36. Brant WO, **Bella AJ**, Garcia MM, Tantiwongse K, Lue TF. Isolated circumscribed septal fibrosis as a cause of Peyronie's disease. *Can J Urol* 2006; 13(3): 3104.
37. Garcia MM, **Bella AJ**, Lin GT, Lin C-S, Minor TX, Lue TF. The effect of pentoxifylline on cultured human tunical fibroblasts harvested from patients with Peyronie's disease. *Can J Urol* 2006; 13(3): 3099.
38. Sener A, **Bella A**, Nguan C, House A, Luke P. Native nephrectomy is a risk factor for recurrence of focal segmental glomerular sclerosis in renal transplant recipients. *Can J Urol* 2006; 13(3): 3080.
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40. Brock G, DeYoung L, **Bella A**, Lim KB, Gan BS, O'Gorman DB. The pathogenesis and protein expression in Peyronie's disease. *Can J Urol* 2006; 13(3): 3098.
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48. DeYoung L, **Bella A**, Gan BS, Brock G. The pathogenesis of Peyronie's disease: a state of altered wound healing. *J Sex Med* 2005; 3 (suppl 1): 24
49. Tan A, **Bella A**, Razvi H. Evaluation of a novel modified suture tying material designed to facilitate intracorporeal knot-tying during laparoscopic surgery. *Can J Urol* 2005; 12(3): 2624

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51. Chin J, **Bella A**, Sener A, Brock G: Two-surgeon concurrent approach for sural nerve grafts in radical retropubic prostatectomy patients with localized prostate cancer: initial experience. *BJU Int* 2004; 94(S2): 101
52. Touma NJ, Chin JL, **Bella AJ**, Sener A, Izawa JI: Location of a positive biopsy as a predictor of surgical margin status and extra-prostatic disease in radical prostatectomy. *Can J Urol* 2004; 11(3): 2363
53. **Bella AJ**, Sener A, Brock GB, Kwan K, Chin JL: Early experience with a 2-surgeon simultaneous approach to sural nerve graft during radical prostatectomy. *Can J Urol* 2004; 11(3) :2367
54. Girvan AR, **Bella A**, Sener A, Touma N, Brock GB: Initial experience with tadalafil: Can the sildenafil nonresponder be salvaged? *Can J Urol* 2004; 11(3): 2366
55. **Bella AJ**, Sener A, Brock GB, Chin JL: Initial experience with sural nerve grafts (SNG) in radical retropubic prostatectomy (RRP) patients with localized prostate cancer (LCaP). *Can J Urol* 2004; 11(3): 2268
56. **Bella AJ**, Sener A, Touma NJ, Mack DP, Welk BK, Andreoiu, Izawa JI, Chin JL: Discordance in Gleason score between biopsy and radical prostatectomy specimens: analysis by referral centers. *Can J Urol* 2004; 11(3): 2237
57. **Bella AJ**, Brock GB: Midline penile septal scarring: a novel entity of clinical importance in erectile dysfunction. *Can J Urol* 2003; 10: 1954
58. DeYoung L, **Bella A**, Brock G: Arteriogenic erectile dysfunction: the role of vascular endothelial growth factor in a traumatic arteriogenic erectile dysfunction rat model. *Can J Urol* 2003; 10: 1870
59. **Bella AJ**, Brock GB: Intraseptal penile scarring: an underdiagnosed clinical entity in erectile dysfunction. *Can J Urol* 2003; 10: 1864
60. Chin JL, Touma T, Moussa M, Guram KS, **Bella A**, Downey D: Serial histological results on salvage cryoablation for prostate cancer. *Can J Urol* 2003; 10: 1859
61. **Bella A**, Gabril M, Moussa M, Xuan JW, Izawa JI: The characterization of the angiogenic switch in prostrate adenocarcinoma development and progression in a transgenic murine model. *Can J Urol* 2003; 10: 1848
62. **Bella AJ**, Stitt LW, Chin JL, Izawa JI: The prognostic significance of metastatic perivesical lymph nodes identified in radical cystectomy specimens for transitional cell carcinoma of the bladder. *J Urol* 2003; 169 (4S): 382

## SELECTED PRESENTATIONS

1. Sexual Medicine Society of North America Annual Meeting, December 2007, Chicago  
**Bella AJ**, Lin G, Banie L, Tantiwongse K, Brant WO, Lue TF. Decreased in vivo brain-derived neurotrophic factor (BDNF) expression in aged rats following cavernous nerve axotomy: a molecular target for enhancing nerve recovery. *Podium*
2. Sexual Medicine Society of North America Annual Meeting, December 2007, Chicago  
**Bella AJ**, Lue TF, Phonsombat S, Brant WO, Nehra A. Initial experience with 50 patients using the new AMS 700 with MS pump series inflatable penile prosthesis. *Moderated Poster*
3. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
**Bella AJ**, Lue TF, Brant WO, Brock GB. Extracorporeal shock-wave lithotripsy is not supported by evidence based medicine for first line treatment of Peyronie's disease. *Moderated Poster*
4. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
**Bella AJ**, Brant WO, Lue TF, Wilson SK, Brock GB. Safety of penile prosthesis for the treatment of erectile dysfunction in solid-organ transplant patients. *Moderated Poster*
5. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
**Bella AJ**, Garcia MM, Lin G, Fandel TM, Brant WO, Lue TF. Adult adipose tissue derived stem cells enhance neurite outgrowth from the major pelvic ganglion of the rat. *Poster*
6. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
**Bella AJ**, Minor TX, Lin G, Lin C-S, Hayashi N, Lue TF. Potential mechanisms of erectile rehabilitation after radical prostatectomy: indirect effect of sildenafil on neurite outgrowth. *Moderated poster*
7. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
**Bella AJ**, Lin G, Banie L, Tantiwongse K, Brant WO, Lue TF. In vivo brain derived neurotrophic expression and timing patterns in aged rats following cavernous nerve axotomy. *Moderated Poster*
8. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
**Bella AJ**, Lue TF, Phonsombat S, Brant WO, Nehra A. Early experience with the new AMS 700 with MS Pump Series Inflatable Penile Prosthesis. *Moderated Poster*
9. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
Fandel TM, **Bella AJ**, Lin G, Tantiwongse K, Lue TF. Liquid microparticle delivery of intracavernous growth differentiation factor-5 therapy enhances the recovery of erectile function in a rat model of cavernous nerve injury. *Moderated Poster*
10. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
Brant WO, **Bella AJ**, Lue TF. T-shaped cavernosum-glans shunt: a new paradigm for the surgical management of priapism. *Poster*
11. 62<sup>nd</sup> Annual Meeting of the Canadian Urological Association, June 2007, Quebec City  
Brant WO, **Bella AJ**, Lue TF. Transglanular prosthesis fixation for "floppy" glans penis. *Poster*
12. 102<sup>nd</sup> Annual Meeting of the American Urological Association, May 2007, Anaheim

- Bella AJ**, Hayashi N, Minor TX, Carrion R, Price R, Lue TF. The non-immunosuppressant ligand FK1706 enhances the recovery of erectile function following bilateral cavernous nerve crush injury in the rat. *Moderated Poster*
13. 102<sup>nd</sup> Annual Meeting of the American Urological Association, May 2007, Anaheim  
**Bella AJ**, Minor TX, Lin G, Lin C-S, Hayashi N, Lue TF. Towards an understanding of PDE-5 post-radical prostatectomy penile rehabilitation: does sildenafil have a direct effect on major pelvic ganglion neurite outgrowth. *Moderated Poster*
14. 102<sup>nd</sup> Annual Meeting of the American Urological Association, May 2007, Anaheim  
Hayashi N, **Bella AJ**, Wang G, Deng DY, Nunes L, Lue TF. Effect of estrogen on urinary incontinence in a postpartum ovariectomized rat model. *Podium*
15. 102<sup>nd</sup> Annual Meeting of the American Urological Association, May 2007, Anaheim  
**Bella AJ**, Lue TF, Phonsombat S, Nehra A. Initial experience with the new AMS 700 with MS pump series inflatable penile prosthesis. *Moderated Poster*
16. 12th World Congress of the International Society for Sexual Medicine, September 2006, Cairo  
**Bella AJ**, Lin G, Tantiwongse K, Fandel T, Brant WO, Lin CS, Lue TF. Brain-derived neurotrophic factor acts primarily via the JAK/STAT pathway to promote neurite growth in the cavernous nerve and major pelvic ganglion of the rat. *Moderated Poster*
17. 12th World Congress of the International Society for Sexual Medicine, September 2006, Cairo  
**Bella AJ**, Lin G, Lue TF, Lin CS. JAK/STAT Activation mediates BDNF neurotrophic effect in major pelvic ganglial explants. *Moderated Poster*
18. 12th World Congress of the International Society for Sexual Medicine, September 2006, Cairo  
**Bella AJ**, Lin G, Tantiwongse K, Garcia MM, Lin CS, Brant WO, Lue TF. Upregulation of penile brain-derived neurotrophic factor and activation of the JAK/STAT signaling pathway in the major pelvic ganglion of the rat following cavernous nerve transection. *Moderated poster*
19. 12th World Congress of the International Society for Sexual Medicine, September 2006, Cairo  
**Bella AJ**, Tantiwongse K, Fandel T, Garcia MM, Klein R, Brant WO, Lue TF. Neurturin enhances the recovery of erectile function following bilateral cavernous crush injury in the rat. *Moderated poster*
20. 12th World Congress of the International Society for Sexual Medicine, September 2006, Cairo  
Fandel T, **Bella AJ**, Tantiwongse K, Garcia MM, Nunes L, Tanagho EA, Lue TF. Growth differentiation factor-5 (GDF-5) enhances recovery of penile erection following cavernosal nerve crush injury in the rat. *Podium*
21. 61<sup>st</sup> Annual Meeting of the Canadian Urological Association, June 2006, Halifax  
**Bella AJ**, Lin GT, Tantiwongse K, Garcia M, Brant WO, Lin GF, Lue TF. The determination of the molecular mechanism by which BDNF enhances neurite growth via Jak/STAT pathway activation in the major pelvic ganglion and cavernous nerve of the rat. *Moderated poster*
22. 61<sup>st</sup> Annual Meeting of the Canadian Urological Association, June 2006, Halifax  
**Bella AJ**, Tantiwongse K, Fandel T, Klein R, Lue TF. The effect of neurturin on the recovery of erectile function following bilateral cavernous nerve crush injury in a rat model: results from a blinded study. *Moderated poster*

23. Annual Meeting of the American Urological Association, May 2006, Atlanta  
**Bella AJ**, Sener A, Foell K, Brock GB. Non-palpable scarring of the penile septum as a cause of erectile dysfunction: an atypical form of Peyronie's disease. *Podium*
24. Sexual Medicine Society of North America Annual Meeting, November 2005, New York  
**Bella AJ**, Sener A, Foell K, Brock GB. Atypical Peyronie's disease: an undiagnosed cause of erectile dysfunction. *Moderated poster*
25. Sexual Medicine Society of North America Annual Meeting, November 2005, New York  
Minor TX, **Bella AJ**, Carrion R, Price R, Lue TF. The effect of FK1706 on erectile dysfunction following a bilateral cavernous nerve crush injury in a rat model. *Moderated poster*
26. 11<sup>th</sup> World Congress of the International Society for Sexual and Impotence Research, October 2004, Buenos Aires  
**Bella AJ**, Beasley K, Obied A, Brock GB: Minimally invasive Peyronie's repair: Initial experiences with a new technique *Moderated poster*
27. 60<sup>th</sup> Annual Meeting of the Canadian Urological Association, June 2004, Whistler B.C.  
**Bella AJ**, Sener A, Brock GB, Chin JL: Initial experience with sural nerve grafts (SNG) in radical retropubic prostatectomy (RRP) patients with localized prostate cancer (LcaP) *Moderated Poster*
28. 60<sup>th</sup> Annual Meeting of the Canadian Urological Association, June 2004, Whistler B.C.  
**Bella AJ**, Sener A, Touma NJ, Mack DP, Welk BK, Andreoiu M, Izawa JI, Chin JL: Discordance in Gleason score between biopsy and radical prostatectomy specimens: analysis by referral centers *Poster*
29. 60<sup>th</sup> Annual Meeting of the Canadian Urological Association, June 2004, Whistler B.C.  
**Bella AJ**, Brock GB: Midline penile septal scarring: a novel entity of clinical importance in erectile dysfunction *Podium*
30. 60<sup>th</sup> Annual Meeting of the Canadian Urological Association, June 2003, Montreal  
**Bella AJ**, Brock GB: Intraseptal penile scarring: An underdiagnosed clinical entity in erectile dysfunction *Moderated Poster*
31. 60<sup>th</sup> Annual Meeting of the Canadian Urological Association, June 2003, Montreal  
Chin JL, Touma N, Moussa M, Guram KS, **Bella A**, Downey DB: Serial histological results on salvage cryoablation for prostate cancer *Moderated Poster*
32. Society of Urologic Oncology Annual Meeting, December 2002, Washington D.C.  
Chin JL., Touma N., Garum K., Downey D., **Bella AJ**, M. Moussa: Serial biochemical and histological results on salvage cryoablation: 5 year follow-up *Poster*
33. 59<sup>th</sup> Annual Meeting of the Canadian Urological Association. June 2002 St. John's, Nfld.  
**Bella AJ**, Chin JL, Izawa JI: The prognostic significance of metastatic perivesical lymph nodes following radical cystectomy for transitional cell carcinoma of the bladder *Moderated Poster*

## INVITED FACULTY

1. Annual Meeting of the Sexual Medicine Society of North America, December 2007, Chicago  
Surgical Management of Peyronie's Disease Expert Panel  
Journal of Sexual Medicine Debate: Role of Endothelial Rehabilitation  
Session Moderator – Clinical Management and Epidemiology of Sexual Dysfunction
2. Sexual Medicine Society of North America Meeting *at the* American Urological Association Annual Meeting, May 2007, Anaheim CA  
Debate: Contemporary Standard of Care for Peyronie's Disease Requires Formal Trial Of Medical Therapy Before Surgical Intervention
3. International Society for the Study of the Aging Male, February 2007, Montreal PQ  
Evolving concepts and treatment strategies for post-radical prostatectomy erectile dysfunction: Sexual Medicine Society of North America Lecture
4. 12th World Congress of the International Society for Sexual Medicine, September 2006, Cairo  
Co-Chairman Basic Science Podium Session 1 and Basic Science Moderated Poster Session 5

## **PEER-REVIEW POSITIONS**

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- Journal of Sexual Medicine
- Urology
- Asian Journal of Andrology
- International Journal of Andrology
- Aging Health (*Editorial Advisory Board*)
- Therapy (*ad hoc*)
- Drug Safety (*ad hoc*)
- Journal of Urology (*ad hoc*)

## **TEACHING AWARDS**

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- University of Western Ontario Resident Teaching Award, Urology 2003-2004
- University of Western Ontario Resident Teaching Award, Urology 2002-2003
- Surgical Clinical Clerkship Outstanding Teacher Commendation University of Western Ontario, 2003 and 2004