

CURRICULUM VITAE

ANTHONY J COSTELLO

MD FRACS FRCSI(hon) MBBS

September 2010

Name: Anthony James Costello
MD FRACS FRCSI(hon) MBBS

Date of Birth: 3rd September 1948
Melbourne, Australia

Citizenship: Australian

Address:	Department of Urology Level 3 Central The Royal Melbourne Hospital Grattan Street Parkville VIC 3050 Australia	Suite 8.6 Level 8 The Epworth Centre 32 Erin Street Richmond VIC 3121 Australia
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Medical Board of Australia Registration: MED0001021866

PROSTATE CANCER RESEARCH & BIOTECHNOLOGY:

In 2001 I established a Prostate Cancer Research Laboratory in the Department of Surgery at the University of Melbourne, based at The Royal Melbourne Hospital. The laboratory initially commenced animal studies using a xenograft model of prostate cancer in mice.

Following identification of a novel trace element which we considered effective in prostate cancer, we conducted animal testing and developed a drug which has now gone through phase 1 testing in human hormone refractory prostate cancer patients.

Because of the novel nature of this compound and the success of animal studies in advanced prostate cancer, a spin-off biotechnology company was developed, namely Velacor Therapeutics. This company is now fully established and has interest in drug development in cancer and other neurodegenerative diseases including Alzheimer's disease. The drug targets PI3 kinase activity. I sit on the board of this company.

GRANT SUPPORT IN 2007:

In 2007 I established the Victorian Prostate Cancer Research Consortium and attracted \$1,900,000 of Victorian State Government Funding for a start up network of Victorian based prostate cancer researchers. There are five institutions including the University of Melbourne, Peter MacCallum Cancer Centre, Monash Medical Research Centre, the Ludwig Cancer Research Institute, The Royal Melbourne Hospital, and Epworth Hospital involved in this initiative. I Head the research nodes at The Royal Melbourne Hospital, University of Melbourne and Epworth Hospital.

In November 2007 the incoming Federal Government, through the Australian Treasurer, Mr Wayne Swan, and the new Australian Prime Minister, Mr Kevin Rudd, endowed a \$15,000,000 specific grant for translational prostate cancer research under my direction. An initial \$7,500,000 will be used to establish laboratory facilities at Epworth Hospital, Melbourne, and Melbourne University, concentrating on areas of drug discovery, tissue banking, and molecular pathology. We will collaborate with Dr Colleen Nelson in Brisbane who will establish the second centre some time later in 2008.

PROSTATE CANCER FOUNDATION OF AUSTRALIA:

In 2001 I helped establish the Victorian Prostate Cancer Foundation which then merged with the New South Wales Prostate Cancer Foundation to become the National Prostate Cancer Foundation. This is now the peak body in prostate cancer in Australia and dialogues on a regular basis with all State and Federal Government Agencies involved in prostate cancer in its broader sense. In 2008 we allocated \$8,600,000 of funding for prostate cancer research to 20 separate sites in Australia. One of our initiatives for fundraising (Movember) has raised \$18,000,000 in 2008 as a single fundraising exercise.

EDUCATION/QUALIFICATIONS:

1957 – 1966	Xavier College – Head Prefect 1966
1972	MBBS – University of Melbourne, Medical School
1980	FRACS – Fellow Royal Australasian College of Surgeons, Urology, Melbourne
1998	MD – Doctorate in Medicine by Thesis: <i>Laser Tissue Interaction: Laboratory ad Clinical Application of Laser in Tissue Welding and Prostatic Ablation</i> - passed December 1998, University of Melbourne, Australia

POSTGRADUATE TRAINING:

1973 - 1974	Intern, St Vincent's Hospital, Melbourne, Australia
1975	Lecturer in Anatomy, Melbourne University, Melbourne, Australia
1977 - 1978	General Surgical Registrar, St Vincent's Hospital, Melbourne, Australia
1978 - 1980	Urology Registrar, St Vincent's Hospital, Melbourne, Australia
1980 - 1981	Fellow in Urologic Oncology, University of Texas M.D. Anderson Cancer Center, Houston, Texas, USA
	Chairman: Professor Douglas E Johnson, MD
1981 - 1982	Senior Registrar in Urology, London Hospital, University of London, UK
	Department Head: Professor John P Blandy, MD
1985	Certified in Laser Surgery, American College of Surgeons, Houston, Texas, USA
1987	Certified in Laser Surgery, American College of Surgeons, Houston, Texas, USA

- 1989 Sabbatical: M.D. Anderson Cancer Center, Urologic Oncology, Houston, Texas, USA
Supervisor: Professor D E Johnson
- 1989 Recertified in Laser Surgery: Nd: YAG, Argon, CO₂, KTP
American College of Surgeons, Houston, Texas, USA
- 1989 Certified Prostatic Ultrasound, Stanford University, California, USA
- 2003 Robot-Assisted Laparoscopic Prostatectomy Urology Mini-Residency Course, The University of California Irvine, Medical Center, Orange, California, USA

CURRENT POSITIONS:

- 2009 - Executive Director, Australian Prostate Cancer Research Centre at Epworth
- 2006 - 2010 Head of Genitourinary Tumour Streams for The Royal Melbourne Hospital Tumour Group
- 2006 - 2008 Interim Chairman, Victorian Prostate Cancer Research Collaboration
- 2001 - Professorial Fellow & Head Department of Urology, The Royal Melbourne Hospital, affiliated with Department of Surgery, University of Melbourne
- 2001 - Consultant Urologist, Peter MacCallum Cancer Institute, Melbourne
- 1990 - Senior Research Fellow, Department of Microsurgery Research, St Vincent's Hospital, Melbourne
- 2001 - 2004 Consultant Urologist, Williamstown Hospital, Melbourne
- 2001 - Consultant Urologist, Royal Women's Hospital, Melbourne
- 2000 - 2000 Consultant Urologist, Broadmeadows Health Service, Melbourne
- 1999 - 2001 Associate Professor, Department of Surgery University of Melbourne
Director of Urology, The Royal Melbourne Hospital
- 1990 - 1999 Director, Department of Urology, St Vincent's Hospital, Melbourne
- 1990 - 1999 Director, Lithotripsy Services, Victoria
- 1994 - 1999 Director, Department of Urology, Western Hospital, Melbourne
- 1990 - 1999 Senior Associate, Department of Surgery, University of Melbourne

HONOURS & AWARDS:

- 2010 Honorary Fellowship of the Royal College of Surgeons in Ireland
- 2009 Best Poster Presentation (Localized Prostate Cancer), American Urological Association, Chicago
- 1999 Best Poster Presentation, World Congress of Endourology, Rhodes
- 1999 Australasian Urological Foundation, Bruce Pearson Fellowship
- 1991 Alban Gee Prize. Australasian Urological Society Best Scientific Presentation, Brisbane, Australia
- 1993 Best Clinical Presentation, American Society for Lasers in Surgery and Medicine, New Orleans

1980 - 1981 Sir Thomas Naughton Fitzgerald Travelling Surgical Fellow, Melbourne University - Scholarship for post-graduate study in Urologic Oncology. University of Texas, M.D. Anderson Cancer Center, Houston, Texas

SPORTING AWARDS:

1966 Captain, Best & Fairest, First XVIII Football Team, Xavier College
 1966 Captain, Swimming Team, Xavier College
 1970 Full Blue Australian Rules Football, University of Melbourne
 1974 A Grade Amateur Football Premiership
 1975 - 1976 President Melbourne University Football Club
 1984 Melbourne Marathon
 1998 Invited Medical Director President's Cup Golf Tournament
 2001 Invited Medical Director World Cup Match Play Championship

PROFESSIONAL SOCIETIES:

Fellow Royal Australasian College of Surgeons
 Member Urological Society of Australasia
 Member British Association of Urological Surgeons
 Member American Urological Association
 Member American Society for Laser Surgery and Medicine
 Member Endourological Society
 Member Societe International D'Urologie
 Member Laser Institute of America
 Member Singapore Urological Society
 Member Asian Surgical Association
 Member Society of Photo-Optical Engineers
 Member University of Texas M.D. Anderson Cancer Center Alumni
 Member Australian Medical Association
 Member American Society for Laser Medicine and Surgery, Inc
 Member GU Global Group, Australian Representative
 Member Executive Committee, MD Anderson Cancer Center (MDACC) Urology Network
 Elected Member American Association of Genitourinary Surgeons, 2004
 Charter Member Society of Robotic Surgeons, 2009
 Honorary Fellow Royal College of Surgeons in Ireland

ACADEMIC & PROFESSIONAL APPOINTMENTS:

American Association of Genito-Urinary Surgeons

In 2004 Prof Costello was elected to the American Association of Genito-Urinary Surgeons. This is an international association of urologists, 50 American and 25 international, who have

shown outstanding leadership in the field of urology internationally. Prof Costello is the only Australian urologist who has membership of this august society.

Cleveland Clinic, Glickman Urological Institute

Invited member of the International Advisory Board of the Cleveland Clinic Urological Institute.

- Advisor, Australian Government on new technologies for surgery for benign prostatic disease
- Advisor, Victorian Government on hospital planning for prostate surgery
- Member, International Trials Group, MD Anderson Cancer Center, Texas
- Member, Global Urology Trials Group (affiliated to EORTC)
- Member, Victorian Genito-Urinary Oncology Group (affiliated to ACCV)
- Member, Pan-European Expert Panel: Management strategies for BPH
- Advisor to World Health Organisation on BPH
- Consultant on Prostate Cancer to NCI, USA. 1999
- Member, Surgical Advisory Council to Victorian Government Statewide Audit Surgical Morbidity & Mortality
- Member, Australian Safety and Efficacy Register of New Interventional Procedures – Surgical
- Member, Council for Surgery, Education & Standards, RMH
- Board Member, Prostate Cancer Foundation of Australia, 2001-2010
- Examiner in Urology, Royal Australian College of Surgeons
- Editorial Board: Lasers in Surgery and Medicine
- Editorial Board: British Journal of Urology
- Review Panel: Journal of Urology
- Review Panel: Journal of Endourology
- Review Panel: Australian & New Zealand Journal of Surgery
- Grant Assessor: Australian Kidney Foundation
- Grant Assessor: NH & MRC
- Chairman: Laser Committee, Royal Melbourne Hospital
- Laser Safety Officer, Royal Melbourne Hospital
- Consultant, Gerson Lehrman Group's Healthcare Council, New York
- Member, International Advisory Board of the Cleveland Clinic Urological Institute
- Editorial Consultant: Journal of Robotic Surgery
- Nicola Roxon, Health Minister's Roundtable on Men's Health, Parliament House, Canberra, 2009
- Invitation to submit to Senate - Inquiry into Men's Health re Prostate Cancer, 2009
- Charter Member: Society of Robotic Surgeons
- Editorial Board: Journal of Endourology, Part B: Videourology
- Member, Australian Prostate Cancer Research Alliance
- Panel Member, Medical Services Advisory Committee, Dept of Health & Ageing (Brachytherapy for Prostate Cancer)
- Board of Consultants, African Journal of Urology

FUNDED RESEARCH:

- 2009 Source: Federal Government
Establishment Grant for the Australian Prostate Cancer Research Centre at Epworth
\$7,500,000
- 2006 Source: Victorian Government - AUS Industry Grant – Costello, Corcoran, Hovens: *Funds for pre-clinical phase I and radical prostatectomy clinical studies*
\$665,000
- 2005 Source: Melbourne University - Costello, Corcoran, Hovens: *Selenate as treatment for hormone refractory prostate cancer*
\$1,200,000
- 2004 Source: Federal Government National Continence Management Strategy (Co-Investigator): *Extension Study: Prospective randomised control trial of management strategies for patients with multiple sclerosis and significant urinary problems*
\$87,214
- 2003 Source: NH&MRC (Principal Investigator) *Intracellular signaling pathways in development and tumourigenesis*
Stipend: \$27,500 per annum x 3 years
- 2002 Source: Cytopia (Principal Investigator): *Novel JAK kinase inhibitors in the treatment of experimental hormone refractory prostate cancer*
\$145,000
- 2002 Source: Abbott
M00-211. A Phase III, Randomised, Double-Blind, Placebo-Controlled Study of the Safety and Efficacy of 10 mg Atrasentan in Men with Metastatic, Hormone-Refractory Prostate Cancer, April 19, 2001
- 2001 Source: Dept of Health. Victorian State Government (Co-Investigator)
Victorian waiting list prioritisation for prostatectomy study
- 2001 Source: Dept of Health & Aged Care: Innovative Grants – National Continence Management Strategy (Co-Investigator)
Randomised control trial bladder pressure management vs management based on symptoms and residual volume in patients with established multiple sclerosis
\$115,000
- 2001 - 2004 Source: NHMRC (Co-Investigator) \$305,000
Psychiatric morbidity, quality of life and coping styles of patients with early stage and advanced prostate cancer

- 2001 - Source: EORTC (Co-Investigator)
Intergroup Study Protocol 30994 Randomised Phase III trial comparing immediate vs deferred chemotherapy after radical cystectomy in patients with pT3 – pT4 and/or N+ Mo TCC of the bladder
- 2001 - 2004 Source: Cancer Research Institute: Clinical Investigation Program (Co-Investigator) \$600,000
The role of BH3-only proteins in the control of cell death in the prostate
- 2001 Source: Yamanouchi / CSL (Co-Investigator) US\$3,000,000
Trans-European Research into the use of management policies of LUTS suggestive of BPH in primary healthcare
- 2001 Source: TR & Rae Bourke Ditchfield Medical Research Fund \$7,000
Prostate Cancer Chemoprevention
- 2000 Source: MD Anderson, University of Texas \$50,000
Laser welding canine vesico-urethral anastomosis
- 2000 - 2002 Source: Pfizer
Darifenacin Study
- 2000 Source: Bruce Pearson Scholarship, Urological Society of Australia \$50,000
Prostate Cancer Chemoprevention
- 1999 - Source: Bioniche Inc Canada \$16,000
Study of Intravesical Mycobacterial Wall Complex (MCC) for the treatment of carcinoma in situ of bladder cancer refractory to BCG
- 1998 - 2000 Source: US AMRMC PCRIP IDEA US\$ 335,659
Molecular staging of prostate bone metastasis
- 1997 - 2000 Source: Johnson & Johnson \$15,000
Indigo 830e diode laser in treatment of BPH
- 1997 - 2000 Source: Boston Scientific Corp \$12,000
T3 Thermotherapy for BPH
- 1995 - 1997 Source: Indigo, Johnson & Johnson \$20,000
Title: Randomised study Indigo diode laser vs TURP in BPH
- 1992 - 1994 Source: Merck Sharpe & Dohme \$100,000
Randomised study Finasteride vs placebo in BPH
- 1991 - 1994 Source: Schering \$75,000
Randomised study Flutamide vs placebo in BPH

ACADEMIC SUPERVISION:

PHD	Niall Corcoran - 2005
AMS	Julia Shah - 2005 <i>Normal anatomy of seminal vesicle attachment to the prostate and correlation with pathological processes of prostate cancer spread to seminal vesicles</i>
MD	Tim Lerner - 2005
AMS	Matthew Brooks - 2005 <i>Cavernosal neuroanatomy</i>
MS	David Syme - 2001 <i>Hormonal influence on cavernous nerve regeneration</i>
MS	Jeremy Grummett - 2001 <i>Laser welded vesico-urethral anastomosis in radical prostatectomy</i>

ACADEMIC GRANTS FOR RESEARCH FELLOWS:

1991	Dr A Clarke: Royal Australian College of Surgeons Laser tissue welding
1992	Dr D Bolton: Royal Australian College of Surgeons Laser tissue welding
1995	Dr O Niall: St Vincent's Hospital Tissue effect of laser on the canine prostate
1995	Professor John Heaney: University of Melbourne Tissue effect of laser on the canine prostate
1996	Dr D Agarwal: St Vincent's Hospital Role of LHRH agonist in PSA stimulation in prostate cancer diagnosis
2001	Dr J Grummet: Department of Urology, Royal Melbourne Hospital Laser welded vesico-urethral anastomosis in radical prostatectomy
2004	Dr N Corcoran: Sir Benjamin Rank Fellowship, Melbourne Health Cell signaling in development and tumourigenesis
2009	Dr B Namdarian: Raelene Boyle RACS Scholarship

INVITED LECTURESHIPS:

1992	Visiting Professor, Queensland Urologic Society Annual Scientific Meeting
1992	Visiting Professor, S.A. Urologic Society Annual Scientific Meeting
1992	Faculty, World Congress of Endourology Austria
1993	Visiting Professor, University of Seoul
1993	Visiting Professor, Queen Mary Hospital, Hong Kong
1993	Visiting Professor, Singapore Urological Society Annual Scientific Meeting
1993	Faculty World Congress of Endourology Florence
1994	Visiting Professor, German Urological Meeting. University of Bochum, Koln

- 1994 Visiting Professor, New York University
- 1994 Invited Speaker, Societe Internationale d'Urologie 23rd Congress, Sydney
- 1994 Visiting Professor, Orange County Urological Society Meeting, CA
- 1994 Keynote Speaker, Royal Australasian College of Surgeons New Zealand, Annual Scientific Meeting, Palmerston NZ
- 1995 Invited Faculty, Instructional and Postgraduate Courses: *Laser Prostatectomy*. American Urological Association 90th Annual Meeting, Las Vegas
- 1995 Invited Speaker, Annual James H McDonald Urological Seminar, Scottsdale, Arizona, Mayo Clinic
- 1995 Invited Panel Member, World Health Organization Consensus Panel on BPH, Monaco
- 1996 Invited Speaker, Photodynamic Therapy Congress, Melbourne
- 1996 Invited Speaker, 14th World Congress of Endourology and Shock Wave Lithotripsy, Melbourne
- 1996 Invited Faculty, Instructional and Postgraduate Courses: *Lasers and Other Technology for BPH*. American Urological Association 91st Annual Meeting, Florida
- 1997 Invited Panel Member, World Health Organization Consensus Panel on BPH, Paris
- 1997 Invited Faculty, Instructional and Postgraduate Courses: *Videos in Urology*: American Urological Association 92nd Annual Meeting, New Orleans
- 1998 Invited Faculty, 4th Asian Congress in Urology, Singapore
- 1998 Invited Faculty, Instructional and Postgraduate Courses: *Videos in Urology*: American Urological Association 93rd Annual Meeting, San Diego
- 1999 Invited Speaker, Urological Society of Australasia, Annual Scientific Meeting, Adelaide
- 1999 Visiting Professor, 50th Anniversary Dartmouth University Urology Department, New Hampshire
- 2000 Visiting Professor, MD Anderson Cancer Center, Houston, Texas
- 2001 Invited Speaker, Weighting the Wait, Managing Access to Elective Surgery Conference, Melbourne
- 2002 Invited Speaker, Societe Internationale d'Urologie, Stockholm. Quality of Life and Bladder Cancer
- 2003 Invited Speaker, Urological Society of Australasia, Annual Scientific Meeting, Queenstown, New Zealand
- 2003 Visiting Professor, American Association Uro-Genital Oncology Annual Meeting, San Antonio, USA
- 2003 Invited Speaker, 10th International Meeting of the Federation of Asean Urological Association, Manila, Philippines
- 2004 Invited Speaker, Urological Society of Australasia Annual Scientific Meeting, Newcastle, NSW
- 2004 Invited Speaker, Canadian Urologic Association Annual Meeting, Whistler, British Columbia, Canada
- 2004 Invited Speaker, 27th Congress of the Societe Internationale d'Urologie, Honolulu, Hawaii
- 2004 Invited Speaker, Urological Society of Australasia, Victorian State Meeting, Mt Martha, Victoria

- 2004 Invited Speaker, 7th Asian Congress of Urology, Hong Kong
- 2005 Invited Speaker, Urological Society of Australasia Annual Scientific Meeting, Melbourne, Victoria
- 2005 Invited Keynote Speaker, European Association of Urology Annual Meeting, Istanbul, Turkey
- 2005 Invited Speaker, American Association of Genitourinary Surgeons Annual Meeting, California
- 2005 Invited Post Graduate Course Teacher - Robotic Prostatatectomy, American Urological Association Meeting, San Antonio, Texas
- 2005 Invited Speaker, Indonesian Urological Association Annual Meeting, Bali, Indonesia
- 2006 Invited Speaker, Pacific Rim Robotics Symposium, Orange County, California
- 2006 Invited Speaker, Controversies in Prostate Cancer Diagnosis & Treatment Meeting - MD Anderson, Hawaii
- 2006 Invited Speaker, World Robotic Symposium, Ohio State University, Columbus, Ohio
- 2006 Invited Post Graduate Course Teacher - Robotic Prostatatectomy, American Urological Association Meeting, Atlanta, Georgia
- 2006 Annual Meeting of the Royal College of Surgeons of Thailand, Pattaya, Thailand – Principal Guest
- 2006 Invited Speaker, 24th World Congress of Endourology, Cleveland, Ohio
- 2006 Invited Speaker, 8th Asian Congress of Urology, Bali, Indonesia
- 2006 Invited Speaker, 9th Annual Health Facilities Planning & Design Summit, Sydney, NSW
- 2006 Invited Speaker, 28th Congress of the Societe Internationale d'Urologie, Cape Town, South Africa
- 2007 Visiting Professor, University of British Columbia, Vancouver, Canada
- 2007 Invited Post Graduate Course Teacher - Robotic Prostatatectomy, American Urological Association Meeting, Anaheim, California
- 2007 Invited Speaker, 29th Congress of the Societe Internationale d'Urologie, Paris, France
- 2008 Invited Speaker, Jackson Hole Urology Conference, Jackson Hole, Wyoming
- 2008 Invited Speaker, Urological Society of Australia & New Zealand, Hong Kong
- 2008 Invited Speaker, 9th Asian Congress of Urology, New Delhi, India
- 2008 Invited Speaker, Prostate Cancer Foundation of Australia National Conference, Gold Coast
- 2009 Invited Speaker, Urological Society of Australia & New Zealand, Gold Coast
- 2009 Invited Speaker, 4th Annual World Robotic Symposium, Orlando, Florida
- 2010 Invited Speaker, International Robotic Urology Symposium, Las Vegas, Nevada
- 2010 Invited Speaker, Charter Day Meetings, Royal College of Surgeons in Ireland, Dublin
- 2010 Invited Speaker, American Urological Association Meeting, San Francisco, California
- 2010 Invited Speaker, Australian-Canadian Prostate Cancer Research Alliance Symposium, Gold Coast

2010 Invited Speaker, European Robotic Urology Symposium, Bordeaux, France

NATIONAL & INTERNATIONAL CONFERENCE ORGANISATION:

1990 Course Director, *Laparoscopy in Urology*. St Vincent's Hospital, Melbourne

1993 Course Director, *Towards 2000. Alternative Therapies for BPH*. St Vincent's Hospital, Melbourne

1994 Course Director, *Nd:YAG Laser Prostatectomy*. St Vincent's Hospital, Melbourne

1996 Course Director, *Continence*. Western Hospital, Melbourne

1996 Scientific Director, 14th World Congress of Endourology and Shock Wave Lithotripsy, 12th Basic Research Symposium, Melbourne

1997 Course Director, Convenor, *Laser Symposium*. St Vincent's Hospital, Melbourne

2000 Course Director, Convenor, *National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2001 Course Director, Convenor, *2nd National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2002 Course Director, Convenor, *3rd National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2003 Course Director, Convenor, *4th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2004 Course Director, *Laser Safety and Clinical Applications Course*. The Royal Melbourne Hospital

2004 Course Director, *Laser Safety and Clinical Applications Course*. The Royal Melbourne Hospital

2004 Course Director, Convenor, *5th National Prostate Cancer & Telerobotic Surgery Symposium*. Epworth Hospital

2005 Course Director, Convenor, *6th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2006 Course Director, Convenor, *7th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2007 Course Director, Convenor, *8th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2008 Course Director, Convenor, *9th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2009 Course Director, Convenor, *10th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

2010 Course Director, Convenor, *11th National Prostate Cancer Symposium*. The Royal Melbourne Hospital

INTERNATIONAL PATENTS:

1. US PATENT 5322507: Endoscope for laser prostatectomy

2. US PATENT 2004905422: 2005 US Patent for selenate in cancer therapy
3. Inorganic selenium for treatment of Cancer Corcoran NM, Costello AJ, Hovens CM Australia /US PCT application, filed February 2005, funded by Velacor Therapeutics Pty Ltd
4. A treatment for Hormone responsive cancers. Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed February 2006, funded by Velacor Therapeutics Pty Ltd
5. A treatment for benign tumours.. Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed February 2006, funded by Velacor Therapeutics Pty Ltd
6. Methods and compositions for treating a hormonal condition Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed Sep 2007
7. Methods and compositions for treating gynecological cancer Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed Sep 2007
8. Methods and compositions for preparing hormone depleted serum Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed Sep 2007
9. Methods and compositions for traeting prostate cancer Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed March 2007
10. Methods and compositions for the reproductive management of animals Corcoran NM, Costello AJ, Hovens CM. US provisional application, filed Sep 2007

FELLOWSHIP PROGRAM:

1991	Dr Winsor Bowsher, UK
1991	Dr Anita Clarke, Australia
1992	Dr Damien Bolton, Australia
1992	Dr Brian Shaffer, USA
1994	Dr Tom Kingston, USA
1994	Dr Albrecht Nonnenmacher, Germany
1995	Dr Dennis Lusaya, Phillipines
1995	Dr Mark Hirschhorn, USA
1995	Dr Dinesh Agarwal, India
1996	Dr Owen Niall, Australia
1996	Professor John Heaney, USA
1997	Dr Gary Loden, USA
1997	Dr Enoch Gan, Singapore
1999	Dr Monish Aron, India
2000 - 2001	Dr Tim Lerner, UK
2001	Dr A C N Nandasena, Sri Lanka
2001	Dr Owen Cole, UK

2001	Dr Tat Low Ng, Malaysia
2002	Dr Niall Corcoran, Australia
2002	Dr Harbinder Sharma, UK
2003	Dr Hodo Haxhimolla, Australia
2004	Dr Caroline Dowling, Australia
2004 - 2005	Dr David Bouchier-Hayes, Ireland
2004 - 2005	Dr Scott Van Appledorn, USA
2004 - 2005	Dr Navid Berdjis, Germany
2005 - 2006	Dr Paddy O'Malley, Ireland
2005 - 2006	Dr Herkanwal Khaira, USA
2005 - 2006	Dr Franck Bruyere, France
2006 - 2007	Dr Giorgio Bozzini, Italy
2006 - 2007	Dr Bryan Voelzke, USA
2006 - 2007	Dr Jeremy Ockrim, UK
2007 - 2008	Dr Declan Murphy, UK
2007 - 2008	Dr Rajiv Goel, India
2008 - 2009	Dr Tim Bradford, USA
2008 - 2009	Dr Chris Kyle, USA
2008 - 2009	Dr Ben Challacombe, UK
2009 - 2010	Dr Subhasis Giri, Ireland
2009 - 2010	Dr Robin Weston, UK
2010 -	Dr Paul Gilmore, UK
2010 -	Dr Stephen Connolly, UK
2010 -	Dr Paul Cathcart, UK

PUBLICATIONS:

1. Tiptaft R, Costello AJ. *The long term followup of idiopathic retroperitoneal fibrosis.* BJU. 54, 620-624. 1982.
2. Bowsher WG, Shah P, Costello AJ. *Critical appraisal of the Boari flap.* BJU. 54, 682-685. 1982.
3. Costello AJ, Blandy JP, Hately W. *Percutaneous aspiration of renal cortical abscess.* Urol. 21, 201-204. 1983.
4. Tiptaft R, Motson R, Costello AJ. *Fistulae involving rectum and urethra: the place for Park's operation.* BJU. 55, 711-715. 1983.
5. Costello AJ, Johnson DE. *Modified autosuture technique for ileal conduit construction in urinary diversion.* ANZ J Surg. 54, 477-482. 1984.
6. Costello AJ, Tiptaft R, England H, Blandy JP. *Squamous cell carcinoma of bladder.* Urol. 23:3. 234-236. 1984.
7. Costello AJ, Mortensen PM, Stillwell R. *Prognostic indicators for the failure of surveillance management of Stage 1 non-seminomatous germ cell tumours.* ANZ J Surg. 59, 119-122. 1989.

8. Costello AJ, Johnson DE. *Re-establishing continuity of the genito-urinary and alimentary tract using combination laser tissue fusion and indwelling biosoluble stents.* Lasers Surg Med. 10, 179-184. 1990.
9. Costello AJ, Johnson DE, Cromeens DM, Wishnow KI, Ro JY. *Sutureless end-to-end bowel anastomosis using an argon laser and water-soluble intraluminal stent.* J Clin Laser Med Surg. August. 43-48. 1990.
10. Costello AJ, Johnson DE, Cromeens DM, Wishnow KI, von Eschenbach AC, Ro JY. *Sutureless end-to-end bowel anastomosis using Nd:YAG laser and water soluble intraluminal stent.* Lasers Surg Med. 10, 179-184. 1990.
11. Bolton DM, Costello AJ, Lenaghan D. *Comparative study of the role of endourological management in the treatment of ureteric calculi using extra-Corporeal shock wave lithotripsy.* ANZ J Surg. 61, 654-657. 1991.
12. Johnson DE, Costello AJ. *The use of a right angled delivery system to ablate the canine prostate.* Proc. Soc. Photo-optical Engineers. Los Angeles 1991.
13. Clarke A, Bowsher WG, Costello AJ. *Use of lasers in tissue welding.* RACS Annual Report. 1991.
14. Johnson DE, Levinson AK, Greskovich FJ, Cromeens DM, Ro JY, Costello AJ, Wishnow KI. *Transurethral laser prostatectomy using a right angle delivery system.* Proc Biomedical Optics. 1421, 36-41. 1991.
15. Costello AJ, Johnson DE, Bolton DM. *Nd:YAG laser ablation of the prostate as a treatment for benign prostatic hypertrophy.* Lasers Surg Med. 12, 121-124. 1992.
16. Costello AJ, Bowsher WG. *Radiotherapy as a treatment for bladder cancer.* ANZ J Surg. 62, 81-82. 1992.
17. Bowsher WG, Costello AJ. *Laparoscopic surgery in Urology.* Aust Med J. 156, 140. 1992.
18. Costello AJ. *Lithotripsy for kidney stones.* Aust Fam Physician. 21, 438-440. 1992.
19. Costello AJ, Johnson DE, Wishnow KI. *Comparison of sutureless argon and Neodymium:YAG welded ileo-ileal anastomosis using a biodegradable intraluminal stent.* Proc SPIE. Los Angeles. 1992.
20. Costello AJ, Johnson DE. *Treatment of prostatic obstruction with Neodymium:YAG laser.* Proc. SPIE. Vol 1200, 33. Los Angeles. 1992.
21. Costello AJ, Bowsher WG, Bolton DM, Braslis KG, Burt J. *Laser ablation of the prostate in patients with benign prostatic hypertrophy.* BJU. 69, 603-608. 1992.
22. Bolton DM, Peters JS, Costello AJ. *Experience with the pulsed dye laser in management of ureteric calculi.* ANZ J Surg. 62, 788-798. 1992.
23. Bowsher WG, Clarke A, Clarke DG, Costello AJ. *Laparoscopic pelvic lymph node dissection.* BJU. 70, 276-279. 1992.

24. Braslis KG, Costello AJ. *Corporeal penile plication for correction of erectile penile deformity.* ANZ J Surg. 62, 785-787. 1992.
25. Costello AJ. *Laser prostatectomy.* Aust Med J. 157, 504. 1992 (Letter).
26. Burt J, Bowsher WG, Joyce G, Peters JS, Wood A, White A, Costello AJ. *The management of renal cell carcinoma with inferior vena caval involvement.* ANZ J Surg. 63, 25-29. 1992.
27. Braslis KG, Woods R, Crowe H, Costello AJ. *Continent ileal neobladder urinary diversion: an alternative to ileal conduit diversion.* ANZ J Surg. 62, 887-891. 1992.
28. Costello AJ. *In my view: role of laser treatment in BPH.* Prospectives: Aust Supp. 2, 5-6. 1992.
29. Bowsher WG, Clarke A, Clarke DG, Costello AJ. *Laparoscopic pelvic lymph node dissection for carcinoma of the prostate and bladder.* ANZ J Surg. 62, 634-637. 1992.
30. Crowe HR, Clift R, Duggan G, Bolton DM, Costello AJ. *A randomised study of the effect of midnight vs 6 am removal of urinary catheters.* BJU. 71, 306-308. 1993.
31. Bolton DM, Bowsher WG, Costello AJ. *Renal cell carcinoma in both moities of cross fused ectopia.* ANZ J Surg. 63, 662-663. 1993.
32. Bolton DM, Costello AJ. *CO₂ laser subcapsular orchidectomy in the treatment of prostate cancer.* J Clin Laser Med Surg. 11, 197-198. 1993.
33. Bolton DM, Costello AJ. *Histological study of Nd:YAG laser energy on prostatic adenoma as demonstrated in the intact prostate gland.* BJU. 71, 757-759. 1993.
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