

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel on page 1 of the Detailed Cost Estimate form for the initial budget period.

NAME	POSITION TITLE
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EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
The Prostate Centre, Jack Bell Research Vancouver General Hospital	Ph.D.	2000-2004	Prostate Cancer
Dept. of Anatomy & Cell Biology, University of British Columbia	M.Sc.	1996-1999	Cell Biology
Dept of Zoology, University of British Columbia	B.Sc.	1991-1995	Cell Biology

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RESEARCH AND PROFESSIONAL EXPERIENCE: Concluding with present position, list, in chronological order, previous employment, experience, and honors. Include present membership on any Federal Government public advisory committee. List, in chronological order, the titles, all authors, and complete references to all publications during the past 3 years and representative earlier publications pertinent to this application. PAGE LIMITATIONS APPLY. DO NOT EXCEED THREE PAGES FOR THE ENTIRE BIOGRAPHICAL SKETCH PER INVESTIGATOR.

Positions and Employment	Location	Period
Teaching Assistant/Anatomy & Histology	Dept Anatomy/Univ. of BC	1997-1999
Teaching Assistant/Biochemistry	Dept Microbiology/Univ. of BC	1997-2001(Winter)
Teaching Assistant/Cell Biology	Dept Zoology/Univ. of BC	1997-2000 (Fall)
Laboratory Instructor/Cell Biology	Dept Zoology/Univ. of BC	2001/2002 (Summer)
Laboratory Instructor/Cell Biology	Dept Zoology/Univ. of BC	2001/2002 (Fall)

Honors & Awards	Value	Location	Period held
The Prostate Center Top-up Award	\$5,500 per year	The Prostate Center	May 2002-April 2004
CPCRI Doctoral Award	\$20,500 per year	The Prostate Center	May 2002-April 2004
CIHR Doctoral Award	\$20,500 per year	The Prostate Center	<i>Declined</i>
UBC Grad/President's Teaching Award	\$1,000	UBC	June 2000
NCIC Doctoral Travel Award	\$1500	The Prostate Center	Nov 2002
Exp Med – Best Oral Presentation	\$100	The Prostate Center	Oct 2001
CFBS – Graduate Student Publication	\$250	Dept of Anatomy, UBC	June 2001
CP Leblond	\$250	Dept of Anatomy, UBC	June 1997
Univ. Graduate Fellowship	\$16,000 per year	UBC	May 1998-May 1999

(a) Referred Journal Publications

David J Mulholland, Shoukat Dedhar and Colleen C Nelson: Interaction of Nuclear Steroid Receptors with the Beta-Catenin/Tcf Signaling pathway: Wnt you like to know? ENDOCRINE REVIEWS (In Press).

David J Mulholland, Michael Cox, Jason Read, Paul Rennie, Collen Nelson: Androgen Responsiveness of Renilla Luciferase Reporter Vectors is Cell Line and Promoter Dependent. The Prostate. (In Press)

Suriano G, Mulholland D, Nelson CC, Ferreira P, de Wever O, Caldas C, Mareel M, Yokota J, Huntsman D, Seruca R. Intracellular E-cadherin germline mutation V832M is able to impair cell adhesion and induce invasion. Oncogene. 2003 (36): 5602-13.

David J Mulholland, JR Read, PS Rennie, Michael E Cox and CC Nelson: Functional localization and competition between the androgen receptor and T-cell factor for nuclear β -Catenin: a means for inhibition of the Tcf signaling axis. Oncogene. 2003 (36): 5716-9.

David J Mulholland, Helen Cheng, Steven Hendy, Paul Rennie and Colleen Nelson (2002): The Androgen Receptor Promotes Beta-Catenin Nuclear Translocation Independently of APC. J. Biol. Chem. 2002 277: 17933-17943

Benjamin Tubb, DJ Mulholland, AW Vogl and J Bryan (1999): "Testis Fascin": A novel actin bundling protein found in mammalian testes. Experimental Cell Research. 2002 Apr 15; 275(1):92-109.

Sujata Persad, Armelle A. Troussard David J. Mulholland and Shoukat Dedhar. Tumour Suppressor PTEN inhibits nuclear accumulation of β -Catenin and TCF/LEF-1 mediated signaling. Journal of Cell Biology (153): 1161-1173

DJ Mulholland, S Dedhar and AW Vogl: Rat seminiferous epithelium contains a unique junction (Ectoplasmic Specialization) with signaling properties both of cell/cell and cell/matrix junctions (2001). Biology of Reproduction (64), 396-407

A Wayne Vogl, David C Pfeiffer, David J Mulholland, Gill Kimel and Julian Guttman (1999): A Unique and Multifunctional Adhesion Junction in the Testis: Ectoplasmic Specializations. Archives of Histology and Cytology (63): 1-15

David J Mulholland, WA Webber and C Slonecker (1999): A National Survey for Graduate Students in Canadian Departments of Anatomy and Cell Biology. The New Anatomist (257): 257-261.

David J Mulholland, J Wilson, AW Vogl and WA Webber (1999): The Distribution of Actin Bundles in Bowman's Capsule of Rat Kidney. Tissue and Cell (31): 610-616.

MG Miller*, David J Mulholland* and A Wayne Vogl (1999): Cytoplasmic dynein occurs in Sertoli cell regions associated with spermatid translocation. Biology of Reproduction (60): 1047-1056. *indicates equal authorship

Guttman J., Mulholland DJ, Vogl AW (1999): Plectin is concentrated at intercellular junctions and at the nuclear surface in morphologically differentiated rat Sertoli Cells. Anatomical Record (254): 418-428.

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(b) Submitted Works

P. Rocchi^{1*}, X. Muracciole^{2*}, F. Fina¹, DJ Mulholland³, G. Karsenty⁴, J. Palmari¹, L.H. Ouafik¹, F. Bladou³, P.M. Martin¹.
Molecular Analysis Integrating Different Pathways Associated with the Androgen-Independent Progression in LuCaP 23.1
Xenograft. *Cancer Research*

(c) Non-referred Publications

David J Mulholland, Jason T Read and Brian Almond: Enhanced Immunoprecipitation, Co-immunoprecipitation and Chromatin Immunoprecipitation using Miltenyi MACs Microbeads. *MACS & More* (7): 1/2003: 10-12.

(d) Abstracts

David J Mulholland, JR Read, PS Rennie, CC Nelson: Functional localization and competition between the androgen receptor and T-cell factor for nuclear β -Catenin: a means for inhibition of the Tcf signaling axis. *AACR* (2003).

Sujata Persad, Armelle A. Troussard and David J. Mulholland and Shoukat Dedhar: Tumour suppressor PTEN inhibits nuclear accumulation of β -catenin and TCF-mediated transcription. *American Society for Cell Biology* (2000).

J. Mills, CE Young, DJ Mulholland, AM Barr and S Dedhar. Expression of Integrin Linked Kinase (ILK) in Rodent Brain Tissue and PC12 cells. *Society for Neuroscience* (2000).

DJ Mulholland, C Lomas and B Oates. Multimedia CD-web hybrid technology with high level interactivity for an introductory cell biology course. *Experimental Biology* (2000).

David J Mulholland and A Wayne Vogl: β 1-integrin mediated signaling molecules in the rat seminiferous epithelium. *American Society for Cell Biology* (1999)

Benjamin Tubb, D Mulholland, AW Vogl and J Bryan (1999): "Testis Fascin": A novel actin bundling protein found in mammalian testes. *Experimental Biology* (1999).

DJ Mulholland and AW Vogl: Rat Seminiferous Epithelium contain the signaling molecules ILK, FAK and Paxillin. *Experimental Biology* (1998).

DJ Mulholland, AW Vogl and WA Webber: An in vitro morphological study of f-actin bundles in renal epithelia. *Canadian Federation of Biological Sciences* (1997).

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME		POSITION TITLE Associate Professor	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Beijing Medical College, Beijing, China	M.D.	1978-1983	Medicine
Harvard Medical School, Boston, MA	Ph.D.	1984-1991	Mol. Biology & Genetics
Whitehead Institute, MIT, Cambridge, MA	Postdoc	1991-1996	Cell Biology

A. Positions and Honors**Positions and Employment**

- 1991-1992 Postdoctoral Associate, Molecular Biology and Genetics, Whitehead Institute for Biomedical Research, MIT, Cambridge, MA.
- 1992-1996 Postdoctoral Fellow, Molecular and Cell Biology, Whitehead Institute for Biomedical Research Cambridge, MIT, Cambridge, MA.
- 1996-present Full member, Molecular Biology Institute and Jonsson Comprehensive Cancer Center, UCLA-Pharmacology
- 1996-1997 Assistant Professor, Department of Molecular, Cell and Developmental Biology, College of Letters and Sciences, UCLA.
- 1997-2003 Assistant Professor, Department of Molecular & Medical Pharmacology and Assistant Investigator, Howard Hughes Medical Institute, UCLA.
- 2003-present Associate Professor, Department of Molecular & Medical Pharmacology and Assistant Investigator, Howard Hughes Medical Institute, UCLA.

Honors

- "Best Student" Award, Beijing Medical College, 9/78-7/83;
- Lucille P. Markey Fellowship for outstanding predoctoral candidates, Harvard Medical School, 6/85-5/90;
- Radcliffe Grant for Graduate Woman, Harvard University, Cambridge MA, 5/91;
- Damon-Runyon-Walter Winchell postdoctoral fellowship, 11/92-10/95;
- STOP Cancer - Next Generation Award, Los Angeles, CA, 7/96;
- Pew Scholar Award (relinquished due to the duplication with the HHMI Award), San Francisco, CA, 5/97;
- The V Foundation Scholar Award, Cary, NC, 6/97-6/98;
- Howard Hughes Assistant Investigator Award, Chevy Chase, MD, 7/99;
- Outstanding Young Scientists Award, Beijing China, 8/99;
- Cheryl Whitlock Price Award, Palo Alto, CA, 1/00;
- CapCure Research Award, 1/00;
- James S. McDonnell Foundation Award, 6/03
- Prostate Cancer Foundation Award, 1/04

B. Selected Peer-Reviewed Publications (Publications selected from 60 peer-reviewed publications)

- Wu, H., Bateman, J.F., Schnieke, A., Sharpe, A., Barker, D., Mascara, T., Eyre, D., Bruns, R., Krimpenfort, P., Berns, A. and Jaenisch, R (1990). Human-mouse interspecies collagen I heterotrimer is functional during embryonic development of Mov13 mutant mouse embryos. *Mol. Cell. Biology* 10: 1452-1460.
- Wu, H., Byrne, M.H., Stacey, A., Goldring, M.B., Birkhead, J.R., Jaenisch, R. and Krane, S.M. (1990). Generation of collagenase resistant collagen by site-directed mutagenesis of murine pro α 1(I) collagen gene. *Proc. Natl. Acad. Sci. U.S.A.* 87, 5888-5892.
- Wu, H., Faessler, R., Schnieke, A., Barker, D., Chapman, V., Francke, U. and Jaenisch, R. (1992). A X-linked human collagen transgene escapes X inactivation in a subset of cells. *Development* 116: 687.