

# David C Muller, PhD

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CONTACT INFORMATION	Department of Epidemiology and Biostatistics School of Public Health Imperial College London	mobile: +44 740 378 7940 email: david.muller@imperial.ac.uk davidmull@gmail.com
EDUCATION	<b>University of Melbourne, Australia</b> <i>Doctor of Philosophy (Epidemiology and Biostatistics)</i> <ul style="list-style-type: none"><li>• Topics: Biomarkers of hormone activity and risk of prostate and breast cancers; Comparison of methods of analysis for family based case-control studies</li><li>• Advisors: A/Professor Gianluca Severi, Professor Dallas English, and Professor Graham Giles</li><li>• Coursework component: Probability and Distribution Theory (98%), Principles of Statistical Inference (95%)</li></ul> <b>University of Queensland, Australia</b> <i>BA, Psych (Hons)</i>	<b>Awarded 2012</b>  <b>February 2001 – December 2004</b>
EMPLOYMENT HISTORY	<b>School of Public Health Imperial College London</b> <i>Research associate</i>  <b>Genetic Epidemiology Group International Agency for Research on Cancer</b> <i>Postdoctoral fellow</i>  <b>Cancer Epidemiology Centre, Cancer Council Victoria</b> <i>Research Officer Statistician</i>  <b>School of Population Health, University of Melbourne</b> <i>Sessional tutor (biostatistics)</i>  <b>Cancer Epidemiology Centre, Cancer Council Victoria</b> <i>Data Manager</i>  <b>School of Psychology, University of Queensland</b> <i>Research assistant</i>	<b>October 2015 – present</b>  <b>January 2013 – October 2015</b>  <b>2006 – 2012</b>  <b>2008 – 2012</b>  <b>2005 – 2006</b>  <b>2005</b>
AWARDS	<b>International Agency for Research on Cancer (IARC) and Cancer Council Australia</b> <i>IARC postdoctoral fellowship award</i>  <b>Prostate Cancer Foundation Australia</b> <i>Student Travel Award</i>	<b>2012</b>  <b>2011</b>
PUBLICATIONS	Since 2009 I have published 23 peer reviewed papers, among which I have been lead or co-lead author on 12, and corresponding author on 11.  * indicates equal contribution # indicates corresponding authorship  Anantharaman D, <b>Muller DC</b> , Lagiou P, Ahrens W, Holcatova I, Merletti F et al. “Combined effects of smoking and HPV16 in oropharyngeal cancer”. <i>Int J Epidemiol</i> . In Press.  <b>Muller DC</b> <sup>#</sup> , Johansson M, Zaridze D, Moukeria A, Janout V, Holcatova I, et al. “Circulating Concentrations of Vitamin B6 and Kidney Cancer Prognosis: A Prospective Case-Cohort Study”. <i>PLoS ONE</i> . 2015 Oct 27;10(10):e0140677.	

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Wozniak MB, Scelo G, **Muller DC**, Moukeria A, Zaridze D, Brennan P. "Circulating microRNAs as non-invasive biomarkers for early detection of non-small-cell lung cancer". *PLoS ONE*. 2015 May 12;10(5):e0125026

Johansson M<sup>\*</sup>, Fanidi A<sup>\*</sup>, **Muller DC**<sup>\*</sup>, Bassett JK<sup>\*</sup>, Midttun Ø, Vollset SE, et al. "Circulating Biomarkers of One-Carbon Metabolism in Relation to Renal Cell Carcinoma Incidence and Survival". *J Natl Cancer Inst*. 2014 Dec 1;106(12):dju327.

Agogo GO, der Voet H van, Veer P van, Ferrari P, Leenders M, **Muller DC**, et al. "Use of Two-Part Regression Calibration Model to Correct for Measurement Error in Episodically Consumed Foods in a Single-Replicate Study Design: EPIC Case Study". *PLoS ONE*. 2014 Nov 17;9(11):e113160.

**Muller DC**<sup>#</sup>, Fanidi A, Midttun Ø, Steffen A, Dossus L, Boutron-Ruault M-C, et al. "Circulating 25-Hydroxyvitamin D3 in Relation to Renal Cell Carcinoma Incidence and Survival in the EPIC Cohort". *Am J Epidemiol*. 2014 Sep 8;kwu204.

Engeset D, Braaten T, Teucher B, Kühn T, Bueno-de-Mesquita HB, . . . , **Muller DC** et al. Fish consumption and mortality in the European Prospective Investigation into Cancer and Nutrition cohort. *Eur J Epidemiol*. 2014 Nov 7;114.

Ferrari P, Licaï I, **Muller DC**, Andersen PK, Johansson M, Boeing H, et al. "Lifetime alcohol use and overall and cause-specific mortality in the European Prospective Investigation into Cancer and nutrition (EPIC) study". *BMJ Open*. 2014 Jul 1; 4(7)

Severi G, FitzGerald LM<sup>\*</sup>, **Muller DC**<sup>\*</sup>, Pedersen J<sup>\*</sup>, Longano A, Southey MC, et al. "A three-protein biomarker panel assessed in diagnostic tissue predicts death from prostate cancer for men with localized disease". *Cancer Medicine*. 2014 Jun 1.

Papa N, Lawrentschuk N, **Muller D**, MacInnis R, Ta A, Severi G, Millar J, Syme R, Giles G, Bolton D: "Rural residency and prostate cancer specific mortality: results from the Victorian Radical Prostatectomy Register". *Australian and New Zealand journal of public health*. 2014.

Bolton DM, Ta A, Bagnato M, **Muller D**, Lawrentschuk NL, Severi G, Syme RR, Giles GG: "Interval to biochemical recurrence following radical prostatectomy does not affect survival in men with low-risk prostate cancer". *World journal of urology*. 2014; 32(2), 431.

Hussain SM, Wang Y, **Muller DC**, Wluka AE, Giles GG, Manning JT, Graves S, Cicuttini FM: "Association between index-to-ring finger length ratio and risk of severe knee and hip osteoarthritis requiring total joint replacement". *Rheumatology*. 2014; 53(7), 1200.

**Muller DC**<sup>#</sup>: "Second to fourth digit ratio: A predictor of disease in later life?". *Maturitas*. 2013; 75(1): 1.

**Muller DC**<sup>#</sup>, Manning JT, Hopper JL, English DR, Giles GG, Severi G: "No strong association between second to fourth digit ratio (2D:4D) and adult anthropometric measures with emphasis on adiposity". *Ann Hum Biol*. 2013; 40(2): 201.

**Muller DC**<sup>#</sup>, Baglietto L, Manning JT, McLean C, Hopper JL, English DR, Giles GG, Severi G: "Reply to comment on: 'Second to fourth digit ratio (2D:4D), breast cancer risk factors, and breast cancer risk: a prospective cohort study'". *Br J Cancer*. 2013; 108(3): 743.

**Muller DC**<sup>#</sup>, Giles GG, Sinclair R, Hopper JL, English DR, Severi G: "Age-dependent associations between androgenetic alopecia and prostate cancer risk". *Cancer Epidemiol Biomarkers Prev*. 2013; 22(2): 209.

**Muller DC**<sup>#</sup>, Baglietto L, Manning JT, McLean C, Hopper JL, English DR, Giles GG, Severi G: "Second to fourth digit ratio (2D:4D), breast cancer risk factors, and breast cancer risk: a prospective cohort study". *Br J Cancer*. 2012; 107(9): 1631.

**Muller DC**<sup>#</sup>, Giles GG, Manning JT, Hopper JL, English DR, Severi G: "Second to fourth digit ratio (2D:4D) and prostate cancer risk in the Melbourne Collaborative Cohort Study". *Br J Cancer*.

2011; 105(3): 438.

**Muller DC<sup>#</sup>**, Giles GG, Bassett J, Morris HA, Manning JT, Hopper JL, English DR, Severi G: "Second to fourth digit ratio (2D:4D) and concentrations of circulating sex hormones in adulthood". *Reprod Biol Endocrinol*. 2011; 9: 57.

Severi G, Baglietto L, **Muller DC**, English DR, Jenkins MA, Abramson MJ, Douglass JA, Hopper JL, Giles GG: "Asthma, asthma medications, and prostate cancer risk". *Cancer Epidemiol Biomarkers Prev*. 2010; 19(9): 2318.

**Muller DC<sup>#</sup>**, Severi G, Baglietto L, Krishnan K, English DR, Hopper JL, Giles GG: "Dietary patterns and prostate cancer risk". *Cancer Epidemiol Biomarkers Prev*. 2009; 18(11): 3126.

Kelsall HL, Baglietto L, **Muller D**, Haydon AM, English DR, Giles GG: "The effect of socioeconomic status on survival from colorectal cancer in the Melbourne Collaborative Cohort Study". *Soc Sci Med*. 2009; 68(2): 290.

Bowey JA, **Muller D**: "Phonological recoding and rapid orthographic learning in third-graders silent reading: A critical test of the self-teaching hypothesis". *Journal of Experimental Child Psychology*. 2005; 92(3): 203.

CONFERENCE  
PRESENTATIONS

**Muller DC**: "Second to fourth digit ratio and breast cancer risk in the Melbourne Collaborative Cohort Study". *Conference of the Australasian Epidemiological Association*, 21 September 2011, Perth.

**Muller DC**: "Analysis of family case-control studies in Stata". *Australia and New Zealand Stata Users Group Meeting*, 17 September 2011, Fremantle.

POSTER  
PRESENTATIONS

**Muller DC**: "A model incorporating spirometry to predict absolute risk of lung cancer: The UK Biobank prospective cohort study". *American Association for Cancer Research Annual Meeting*, 18-22 April 2015, Philadelphia.

**Muller DC**: "Estimates of association in family case-control studies: simulation based estimates of bias". *Conference of the Australasian Epidemiological Association*, 20-21 September 2011, Perth.

**Muller DC**: "Second to fourth digit ratio and prostate cancer risk in the Melbourne Collaborative Cohort Study". *12th Australasian Prostate Cancer Conference*, 3-5 August 2011, Melbourne.

**Muller DC**: "Second to fourth digit ratio, adult circulating hormones, and prostate cancer risk in the Melbourne Collaborative Cohort Study". *Conference of the Australasian Epidemiological Association*, 29 September - 1 October 2011, Sydney.

PROFESSIONAL  
ACTIVITIES

I am lead statistician for the Lung Cancer Cohort Consortium (LC3), and member of the European Prospective Investigation into Cancer and nutrition Statistical and lung cancer working groups. I have acted as a peer reviewer for numerous journals including The BMJ, International Journal of Cancer, British Journal of Cancer, and Cancer Epidemiology Biomarkers and Prevention. I am a member of the American Association for Cancer Research.

TECHNICAL  
SKILLS

R, Stata, Mata, Bayesian MCMC simulation packages (Stan, JAGS, OpenBUGS/WinBUGS), some Linux/Unix shell scripting, some C++, standard productivity tools in Linux and MS Windows.