David C Muller, PhD

CONTACT INFORMATION

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EDUCATION

University of Melbourne, Australia

Doctor of Philosophy (Epidemiology and Biostatistics) **Awarded 2012**

- Topics: Biomarkers of hormone activity and risk of prostate and breast cancers; Comparison of methods of analysis for family based case-control studies
- Advisors: A/Professor Gianluca Severi, Professor Dallas English, and Professor Graham Giles
- Coursework component: Probability and Distribution Theory (98%), Principles of Statistical Inference (95%)

University of Queensland, Australia

BA, Psych (Hons) **February 2001 − December 2004**

EMPLOYMENT HISTORY

Genetic Epidemiology Group
International Agency for Research on Cancer

Postdoctoral fellow **January 2013 − present**

Cancer Epidemiology Centre, Cancer Council Victoria

Research Officer Statistician **2006 − 2012**

School of Population Health, University of Melbourne

Sessional tutor (biostatistics) **2008 − 2012**

Cancer Epidemiology Centre, Cancer Council Victoria

Data Manager **2005 − 2006**

School of Psychology, University of Queensland

Research assistant **2005**

AWARDS

International Agency for Research on Cancer (IARC) and Cancer Council Australia

IARC postdoctoral fellowship award **2012**

Prostate Cancer Foundation Australia

Student Travel Award **2011**

PUBLICATIONS

Since 2009 I have published 20 peer reviewed papers, among which I have been lead or co-lead author on 10, and corresponding author on 9.

* indicates equal contribution
\# indicates corresponding authorship

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*. In Press.

Johansson M*, Fanidi A*, **Muller DC***, Bassett JK*, 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 vant, 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\#, 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, Licaj 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*, **Muller DC***, Pedersen J*, 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#: "Second to fourth digit ratio: A predictor of disease in later life?". *Maturitas.* 2013; 75(1): 1.

Muller DC#, 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#, 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#, 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#, 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#, 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#, 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#, 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.

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.