## Kieran O'Neill

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Postdoctoral Fellow (Karsan Lab, Michael Smith Genome Sciences Centre, Vancouver, Canada)

**Current Position** 

Education	2014	Ph.D. (Bioinformatics) University of British Columbia, Vancouver, Canada Thesis: Automated analysis of single cell leukemia data Supervisor: Dr Ryan Brinkman Research undertaken at the BC Cancer Agency
	2008	<ul> <li>M.Sc. (Computer Science) University of KwaZulu-Natal, Pietermaritzburg, South Africa</li> <li>Dissertation: Relieving the Cognitive Load of Constructing Molecular Biological Ontology Based Queries by means of Visual Aids</li> <li>Research undertaken at National Bioinformatics Institute, Cape Town Internship at European Bioinformatics Institute, Hinxton, UK</li> </ul>
	2004	<ul> <li>B.Sc.(Hons), University of KwaZulu-Natal, Pietermaritzburg, South Africa</li> <li>Dissertation: Creation of an Extensible Environment for the Investigation of Genetic Algorithmic Solutions to 3D Cubic Lattice Protein Folding</li> <li>Cum Laude</li> <li>Dean's commendations for 7/10 semesters attended.</li> <li>Certificates of Merit (top in class) 14/43 modules completed.</li> </ul>
Awards	2017	Postdoctoral Fellowship, Canadian Institutes of Health Research
	2015	Postdoctoral Fellowship, Michael Smith Foundation for Health Research
		Poster Prize, ISMB 2015
	2012	Student Travel Award, CYTO 2012
	2005	Prestigious Masters Award, National Research Foundation (South Africa)
	2004	Special Honours Award, National Research Foundation (South Africa)
F' (A d. D.H' e'		
First Author Publications		
Research Articles	2017	K O'Neill, M Hills, M Gottlieb, M Borkowski, A Karsan and P Lansdorp: <i>Assembling draft genomes using contiBAIT</i> , Bioinformatics
	2015	K O'Neill, N Aghaeepour, J Parker, D Hogge, A Karsan, B Dalal R Brinkman: <i>Deep profiling of multitube flow cytometry data</i> , Bioinformatics
	2014	K O'Neill, A Jalali, N Aghaeepour, H Hoos, R Brinkman: Enhanced flowType/RchyOptimyx: a Bioconductor pipeline for discovery in high-dimensional cytometry data, Bioinformatics
	2008	K O'Neill, A Garcia, A Schwegmann, R Jimenez, D Jacobson and H Hermjakob: OntoDas - a tool for facilitating the construction of complex queries to the Gene Ontology, BMC Bioinformatics
Commentary/Reviews	2017	K O'Neill, V Rai and A Kilpatrick: The International Society for Computational Biology and WikiProject Computational Biology: celebrating 10 years of collaboration towards open access, Bioinformatics
	2016	K O'Neill and R Brinkman: Publishing code is essential for reproducible flow cytometry bioinformatics, Cytometry A
	2013	K O'Neill, N Aghaeepour, J Špidlen, R Brinkman: Flow Cytometry Bioinformatics, PLoS Computational Biology
Co-authored Publications	2016	K Krowiorz, J Ruschmann, C Lai, M Ngom, T Maetzig, V Martins, A Scheffold, E Schneider, N Pochert, C Miller, L Palmqvist, A Staffas, M Mulaw, S R Bohl, C Buske, M Heuser, J Kraus, <b>K O'Neill</b> , C L Hansen, O I Petriv, H Kestler, H Döhner, L Bullinger, K Döhner, R K Humphries, A Rouhi and F Kuchenbauer: <i>MiR-139-5p is a potent tumor suppressor in adult acute myeloid leukemia</i> , Blood Cancer Journal
	2013	N Aghaeepour, G Finak, <b>The FlowCAP Consortium</b> , The DREAM Consortium, H Hoos, T Mosmann, R Brinkman, R Gottardo and R Scheuermann: <i>Critical assessment of automated flow cytometry data analysis techniques</i> , Nature Methods

		rearrangements in single cells, Genome Medicine
	2012	N Aghaeepour, A Jalali, <b>K O'Neill</b> , P Chattopadhyay, M Roederer, H Hoos, R Brinkman <i>RchyOptimyx: Cellular hierarchy optimization for flow cytometry</i> , Cytometry A
		N Aghaeepour, P Chattopadhyay, A Ganesan, <b>K O'Neill</b> , H Zare, A Jalali, H Hoos, M Roederer, R Brinkman: Early immunologic correlates of HIV protection can be identified from computational analysis of complex multivariate T-cell flow cytometry assays, Bioinformatics
	2010	A Garcia, <b>K O'Neill</b> , L Garcia, P Lord, R Stevens, O Corcho, F Gibson <i>Developing Ontologies within Decentralised Settings</i> , Semantic e-Science
	2008	R Jimenez, A Quinn, A Garcia, A Labarga, <b>K O'Neill</b> , F Martinez, G Salazar, H Hermjakob: <i>Dasty2, an Ajax protein DAS client</i> , Bioinformatics
Scientific Software	2017	Screw (in development)
	2016	ContiBAIT
	2013	flowBin
		BAIT
	2011	flowType
	2008	OntoDAS
Mentorship	2014	Eva Yap (Masters Student, completed 2017)
	2009	Six undergraduate/co-op students during PhD and post-doc (ongoing)
Work Experience	2010	Scientific Technical Advisor, <i>Twentieth Century Fox</i> , Vancouver, Canada Advised on the set of Rise of the Planet of the Apes
	2008	Python Web Developer, ReportLab, London, UK
	2001	Gap Year, Various Positions, London, UK

M Hills, K O'Neill, E Falconer, R Brinkman and P Lansdorp: BAIT: Organizing genomes and mapping