Rola Dali

3700 Louis Veuillot St
Montréal, Québec
☎: 514-619 8600
✉: rola.dali@mcgill.ca
@: https://rdali.github.io/
/ : rdali

POSITION:

Software Developer and Data Analyst at C3G (McGill University), probing questions related to human health by building bioinformatics tools.

EDUCATION:

McGill University 2018-2019
Professional Development Certificate in Data Science and Machine Learning

McGill University 2011- 2017
PhD in Neuroscience & Bioinformatics
Supervisor: Dr. Mathieu Blanchette
- cGPA of 4.0/4.0

University of Ottawa 2006-2010
Honors and specialization in Biochemistry
- cGPA of 9.8/10; distinction: *summa cum laude*

SKILLS:

Python, R, Java, C++, Bash, awk, sed, HTML, CSS, markdown
Version control using git (rdali): github, bitbucket
Experienced with High Performance Computing: Batch, PBS/Torque, Slurm
Operating Systems: Mac, Linux, Windows

Open Source contributions: GenPipes, MultiQC, MultiQC_C3G plugin, RobusTAD, mugqic_tools

Proficient with Microsoft Suite, Google Suite, Adobe Suite (Illustrator, Photoshop)
Expertise*:* Data collection, quality control, data transformation, managing large amounts of data, data analysis

EXPERIENCE:

July 2017- current	**Software Developer & Data Analyst** **C3G Technology Development Team**	Montreal, QC
Jan 2014- Jun 2017	**Integrated Program of Neuroscience- McGill U** **Mathieu Blanchette Lab** *PhD candidate in Neuroscience*	Montreal, QC
Jan 2011- Jan2014	**Montreal Neurological Institute- McGill U** **Stefano Stifani Lab** *PhD candidate in Neuroscience*	Montreal, QC

Oct 2010- Dec 2010	**IMBS Department- MasseyU** **Barry Scott Lab** *Massey University Summer Scholarship student*	Palmerston North, NZ
May 2009- Oct 2010	**BMI Department- UOttawa** **Mona Nemer Lab** *NSERC summer student & Honours student*	Ottawa, ON
May 2008- May 2009	**Biology Department- UOttawa** **Rees Kassen Lab** *NSERC summer student & Work-Study Program*	Ottawa, ON

PUBLICATIONS:

Bourgey M*, **Dali R***, Eveleigh R, …, Bourque G. 2018. GenPipes: an open-source framework for distributed and scalable genomic analyses. GigaScience. Accepted pending Revisions.

Dali R, Bourque G, Blanchette M. 2018. RobusTAD: A Tool for Robust Annotation of Topologically Associating Domain Boundaries. Biorxiv. doi: https://doi.org/10.1101/293175

Dali R, Verginelli F, Pramatarova A, Sladek R, Stifani S. 2018. Characterization of a FOXG1:TLE1 transcriptional network in glioblastoma-initiating cells. Mol Oncol. doi: 10.1002/1878-0261.12168.

Dali R, Blanchette M. 2017. A critical assessment of topologically associating domain prediction tools. Nucleic Acids Res. doi: 10.1093/nar/gkx145.

Chen X, Wang JW, Salin-Cantegrel A, **Dali** R, Stifani S. 2016. Transcriptional regulation of mouse hypoglossal motor neuron somatotopic map formation. Brain Struct Funct. 221(8):4187-4202.

Yamak A, Latinkic BV, **Dali R**, Temsah R, Nemer M. 2014. Cyclin D2 is a GATA4 cofactor in cardiogenesis. Proc Natl Acad Sci U S A. doi: 10.1073/pnas.1312993111.

Verginelli F, Perin A, **Dali R**, Fung KH, Lo R, Longatti P, Guiot MC, Del Maestro RF, Rossi S, di Porzio U, Stechishin O, Weiss S, Stifani S. 2013. Transcription factors FOXG1 and Groucho/TLE promote glioblastoma growth. Nat Commun. doi: 10.1038/ncomms3956.

R Ciarapica, L Methot, Y Tang, R Lo, **R Dali**, M Buscarlet, F Locatelli, G del Sal, R Rota and S Stifani. 2013. Prolyl isomerase Pin1 and protein kinase HIPK2 cooperate to promote cortical neurogenesis by suppressing Groucho/TLE:Hes1-mediated inhibition of neuronal differentiation. Cell Death Differ. doi:10.1038/cdd.2013.160.

Schoustra SE, Punzalan D, **Dali R**, Rundle HD, Kassen R. 2012. Multivariate phenotypic divergence due to the fixation of beneficial mutations in experimentally evolved lineages of a filamentous fungus. PLoS One. doi: 10.1371/journal.pone.0050305.

Schoustra SE, Dench J, **Dali R**, Aaron SD, and Kassen R. 2012. Antagonistic interactions peak at intermediate genetic distance in clinical and laboratory strains of Pseudomonas aeruginosa. BMC Microbiol. doi: 10.1186/1471-2180-12-40.

Schoustra SE, Rundle H, **Dali R**, and Kassen R. 2010. Fitness-associated sexual reproduction in filamentous fungus. Current Biol. doi: 10.1016/j.cub.2010.05.060.

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