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Erratum to: A survey of best practices for RNA-seq data analysis

Ana Conesa^{1,2*}, Pedro Madrigal^{3,4*}, Sonia Tarazona^{2,5}, David Gomez-Cabrero^{6,7,8,9}, Alejandra Cervera¹⁰, Andrew McPherson¹¹, Michal Wojciech Szcześniak¹², Daniel J. Gaffney³, Laura L. Elo¹³, Xuegong Zhang^{14,15} and Ali Mortazavi^{16,17*}

Erratum

During editing of the article by Conesa *et al.* [1], an error was introduced to some of the citations, such that incorrect references were provided for some articles the second time they were cited. The following sentences are affected:

Algorithms that quantify expression from transcriptome mappings include RSEM (RNA-Seq by Expectation Maximization) [40], eXpress [41], Sailfish [35] and kallisto [42] among others. These methods allocate multi-mapping reads among transcript and output within-sample normalized values corrected for sequencing biases [35, 41, 43].

The citation for Sailfish should be [34] (Patro *et al.*, Nat Biotechnol. 2014;32:463–4) in both sentences.

Additional factors that interfere with intra-sample comparisons include changes in transcript length across samples or conditions [50], positional biases in coverage along the transcript (which are accounted for in Cufflinks), average fragment size [43], and the GC contents of genes (corrected in the EDAseq package [21]).

The citation for EDAseq should be [20] (Risso *et al.* BMC Bioinformatics. 2011;12:480)

The NOISeq R package [20] contains a wide variety of diagnostic plots to identify sources of biases in RNA-seq data and to apply appropriate normalization procedures in each case.

The citation for NOISeq should be [19] (Tarazona *et al.* Nucleic Acids Res. 2015;43:e140)

These effects can be minimized by appropriate experimental design [51] or, alternatively, removed by batch-correction methods such as COMBAT [52] or ARSyN [20, 53].

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The citations for ARSyN should be [19, 53] (Tarazona *et al.* Nucleic Acids Res. 2015;43:e140, Nueda *et al.* Biostatistics. 2012;13:553–66).

All these approaches are generally hampered by the intrinsic limitations of short-read sequencing for accurate identification at the isoform level, as discussed in the RNA-seq Genome Annotation Assessment Project paper [30].

The citation for the RGASP article should be [29] (Engström *et al.* Nat Methods. 2013;10:1185–91).

We refer the reader to [30] for a comprehensive comparison of RNA-seq mappers.

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Author details

¹Institute for Food and Agricultural Sciences, Department of Microbiology and Cell Science, University of Florida, Gainesville, FL 32603, USA. ²Centro de Investigación Príncipe Felipe, Genomics of Gene Expression Laboratory, 46012 Valencia, Spain. ³Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, UK. ⁴Wellcome Trust-Medical Research Council Cambridge Stem Cell Institute, Anne McLaren Laboratory for Regenerative Medicine, Department of Surgery, University of Cambridge, Cambridge CB2 0SZ, UK. 5Department of Applied Statistics, Operations Research and Quality, Universidad Politécnica de Valencia, 46020, Valencia, Spain. ⁶Unit of Computational Medicine, Department of Medicine, Karolinska Institutet, Karolinska University Hospital, 171 77 Stockholm, Sweden. ⁷Center for Molecular Medicine, Karolinska Institutet, 17177 Stockholm, Sweden. 8Unit of Clinical Epidemiology, Department of Medicine, Karolinska University Hospital, L8, 17176 Stockholm, Sweden. ⁹Science for Life Laboratory, 17121 Solna, Sweden. ¹⁰Systems Biology Laboratory, Institute of Biomedicine and Genome-Scale Biology Research Program, University of Helsinki, 00014 Helsinki, Finland. ¹¹School of Computing Science, Simon Fraser University, Burnaby V5A 1S6BC, Canada. 12 Department of Bioinformatics, Institute of Molecular Biology and Biotechnology, Adam Mickiewicz University in Poznań, 61-614 Poznań, Poland. ¹³Turku Centre for Biotechnology, University of Turku and Åbo Akademi University, FI-20520 Turku, Finland. ¹⁴Key Lab of Bioinformatics/Bioinformatics Division, TNLIST and Department of Automation, Tsinghua University, Beijing 100084, China. ¹⁵School of Life Sciences, Tsinghua University, Beijing 100084, China. ¹⁶Department of Developmental and Cell Biology, University of California, Irvine, Irvine, CA 92697-2300, USA. ¹⁷Center for Complex Biological Systems, University of California, Irvine, Irvine, CA 92697, USA.

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^{*} Correspondence: aconesa@ufl.edu; pm12@sanger.ac.uk; ali.mortazavi@uci.edu ¹Institute for Food and Agricultural Sciences, Department of Microbiology and Cell Science, University of Florida, Gainesville, FL 32603, USA ³Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA. UK

¹⁶Department of Developmental and Cell Biology, University of California, Irvine, Irvine, CA 92697-2300, USA

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