#### Gene Expression

# JUMP: replicability analysis of high-throughput experiments with applications to spatial transcriptomic studies

Pengfei Lyu 11, Yan Li 21, Xiaoquan Wen 3, and Hongyuan Cao 1,2-

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#### Abstract

Motivation: Replicability is the connerstone of scientific research. The current statistical method for highdimensional replicability analysis either cannot control the false discovery rate (FDR) or is too conservative.

Results: We propose a statistical method, JUMP, for the high-dimensional replicability analysis of two
studies. The input is a high-dimensional paired sequence of p-values from two studies and the test statistic
is the maximum of p-values of the pair. JUMP uses four states of the p-value pairs to indicate whether they
are null or non-null. Conditional on the hidden states, JUMP computes the cumulative distribution function
of the maximum of p-values for each state to conservatively approximate the probability of rejection under
the composite null of replicability. JUMP estimates unknown parameters and uses a step-up procedure to
control FDR. By incorporating different states of composite null, JUMP achieves a substantial power gain
over existing methods while controlling the FDR. Analyzing two pairs of spatially resolved transcriptomic
datasets, JUMP makes biological discoveries that otherwise cannot be obtained by using existing methods.

Availability: An R package JUMP implementing the JUMP method is available on CRAN (https://cr.

Contact: hongyuancao@gmail.com

Supplementary information: Supplementary data are available at Bioinformatics online.

#### 1 Introduction

Regilicability is the cornectators of modern scientific research. We studyconceptual replicability, where consistent results are obtained from studies using different procedures and populations that target the same scientific specificos. Regilicability is related to but different from norta-analysis. Both approaches look at cross-experiment summaries. In a meta-analysis, the null hypothesis is that there is no effect in all studies. On the other hand, in replicability analysis, the abstructive hypothesis is that the effects exist in all studies and the null hypothesis is a composite null, i.e., at least one study does not have an effect. Methods designed for meta-analysis, such as Pishor's method (Pishor, 1925), the Sidik's method (Sidik, 1967), the Lancaster's method (Lancaster, 1961) and the minimum of p-values are not applicable for replicability analysis.

We focus on the reelicability analysis of penomic data produced by high-throughput experiments (Li et al., 2011; Philtron et al., 2018; Hung and Fithian, 2020; Biogomolov and Heller, 2022). In a high-throughput experiment, many candidates are evaluated for their association with a biological feature of interest, and those with significant associations are identified for further analysis. We aim to simultaneously identify replicable features from high-throughput experiments in multiple studies. To analyze a single high-throughput experiment, as acute problem is the multiple comparison. A classic method for multiple comparisons is the false discovery rate (FDR) control approach proposed in Benjamini and Hochberg (1995) (BH). The false discovery rate is defined as the expected value of the ratio of false rejections over total rejections. Suppose we have im hypotheses. The BH procedure works as follows. First, order p-values  $p_{(1)} \le \ldots \le p_{(m)}$ . Second, find the largest  $i_0$  such that  $p_{(i_0)} \le co_0/m$ . Third, reject hypotheses corresponding to  $p_{\{11\}}, \dots, p_{\{nl\}}$ . Under the assumption that p-values from the null are independent and follow standard

Department of Statistics, Florida State University, Tallahassee, FL 32306, USA.

School of Mathematics, Jilin University, Changchun, Jilin 130012, China.

Department of Biostatistics, University of Michigan, Ann Arbor, MI 48109, USA

<sup>&</sup>quot;To whom correspondence should be addressed.

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