

# Resource Summary Report

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## MADS+ - discovery of differential splicing events from Affymetrix exon junction array data

RRID:SCR\_007189

Type: Tool

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### Proper Citation

MADS+ - discovery of differential splicing events from Affymetrix exon junction array data (RRID:SCR\_007189)

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### Resource Information

**URL:** <http://www.mimg.ucla.edu/faculty/xing/MADSplus/instructions.html>

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**Description:** The Affymetrix Human Exon Junction Array is a newly designed high-density exon-sensitive microarray for global analysis of alternative splicing. Contrary to the Affymetrix exon 1.0 array, which only contains 4 probes per exon and no probes for exon-exon junctions, this new junction array averages 8 probes per probeset targeting all exons and exon-exon junctions observed in the human mRNA/EST transcripts, representing a significant increase in the probe density for alternative splicing events. Here, we present MADS+, a computational pipeline to detect differential splicing events from the Affymetrix exon junction array data. For each alternative splicing event, MADS+ evaluates the signals of probes targeting competing transcript isoforms to identify exons or splice sites with different levels of transcript inclusion between two sample groups. MADS+ is used routinely in our analysis of Affymetrix exon junction arrays and has a high accuracy in detecting differential splicing events. For example, in a study of a novel epithelial-specific splicing regulator ESRP1, MADS+ detects hundreds of exons whose inclusion levels are dependent on ESRP1, with a RT-PCR validation rate of 88.5% (153 exons validated out of 173 tested).

**Abbreviations:** MADS+

**Resource Type:** service resource, software resource, source code

**Keywords:** algorithm

**Resource Name:** MADS+ - discovery of differential splicing events from Affymetrix exon junction array data

**Resource ID:** SCR\_007189

**Alternate IDs:** nlx\_93953

**Alternate URLs:** <https://omictools.com/mads-tool>

**Old URLs:** <http://www.medicine.uiowa.edu/Labs/Xing/MADSplus/>

**Record Creation Time:** 20220129T080240+0000

**Record Last Update:** 20260912T200146+0000

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## Ratings and Alerts

No rating or validation information has been found for MADS+ - discovery of differential splicing events from Affymetrix exon junction array data.

No alerts have been found for MADS+ - discovery of differential splicing events from Affymetrix exon junction array data.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.