

## Overview of guide RNA design tools for CRISPR-Cas9 genome editing technology

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Erratum to: Front. Biol. 2015, 10(4): 289, DOI: 10.1007/s11515-015-1366-y

The original version of this article unfortunately contained a mistake. The presentation of Table 1 was incorrect. The corrected table is given below.

Table 1 Overview of several representative gRNA design tools, that are available at: <sup>1</sup><http://www.bioconductor.org/packages/release/bioc/html/CRISPRseek.html>; <sup>2</sup><http://crispr.mit.edu>; <sup>3</sup><http://www.e-crisp.org/E-CRISP/>; <sup>4</sup><http://cas9.cbi.pku.edu.cn>, <sup>5</sup><http://www.multicrispr.net>, and <sup>6</sup><http://www.broadinstitute.org/rnai/public/analysis-tools/sgrna-design>.

Functions/ Limits	CRISPRseek <sup>1</sup>	Zhang Lab <sup>2</sup>	eCRISP <sup>3</sup>	Kong Lab <sup>4</sup>	CRISPR MultiTargeter <sup>5</sup>	sgRNA Designer <sup>6</sup>
Off-target analysis	<b>Yes with PDMM penalty scoring</b>	<b>Yes with PDMM penalty scoring</b>	Yes without scoring	Yes without scoring	Yes without scoring	No
gRNA efficacy prediction	<b>Yes</b>	No	No	No	No	<b>Yes</b>
Batch search	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	No	No	No
Paired configuration	<b>Nickase, dCas9-Fok1 and Cas9-DBD fusion (dev)</b>	<b>Nickase</b>	No	No	No	No
Cas9 type	<b>Flexible</b>	SpCas9 Only	SpCas9 Only	SpCas9 Only	SpCas9 Only	SpCas9 Only
Alternative scoring matrix for efficacy and off-targets	<b>Yes</b>	No	No	No	No	No
Target species	<b>Any</b>	A specified set	A specified set	A specified set		Human and mouse
Restriction enzyme sites	<b>Yes</b>	No	No	No	No	No
Compare set of sequences	<b>Yes</b>	No	No	No	<b>Yes</b>	No
Predict secondary structure	<b>Yes</b>	No	No	<b>Yes</b>	No	No

Received June 21, 2015; accepted July 8, 2015

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