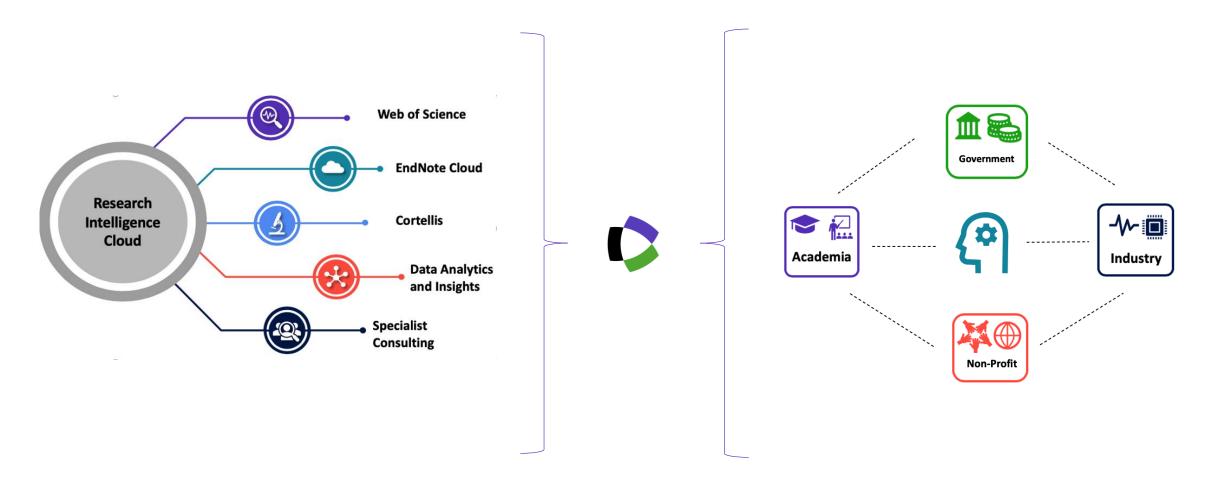


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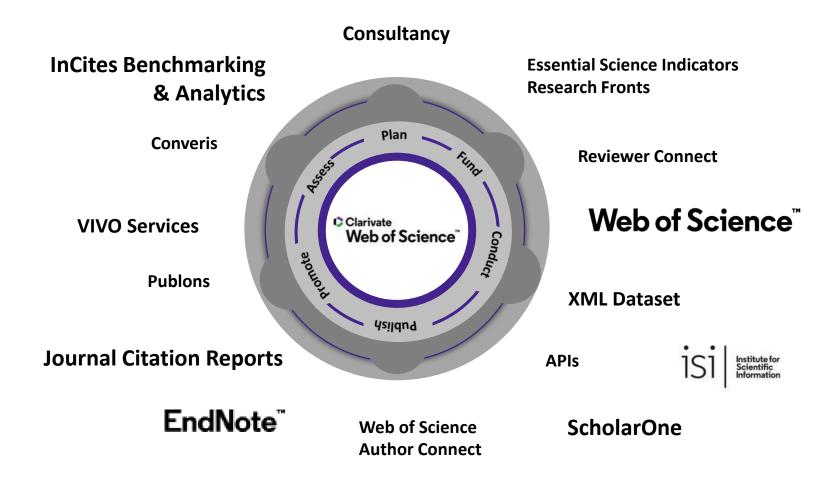
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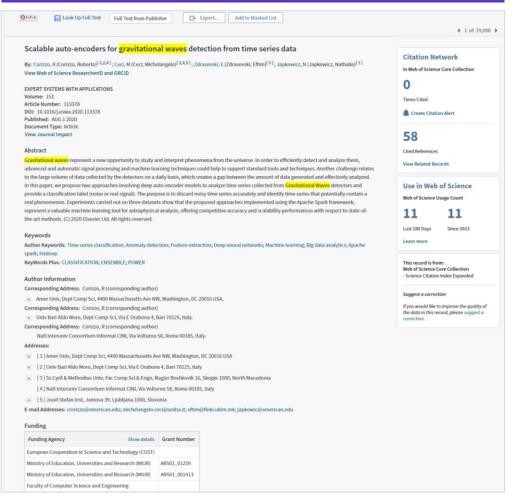
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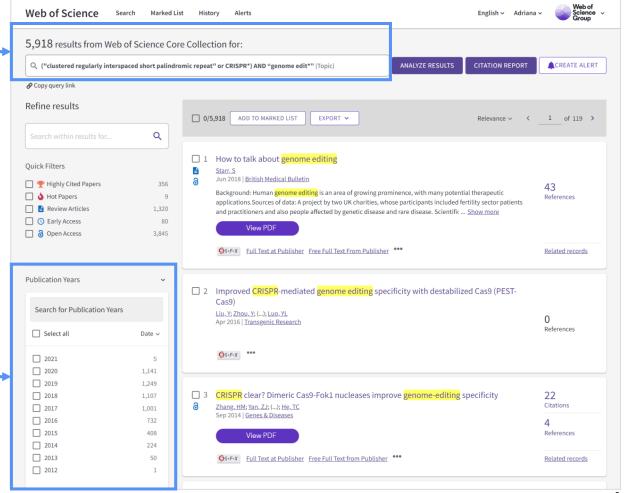
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Abstract

Reduction sensitive linkers (RSLs) have the potential to transform the field of drug delivery due to their ease of use and selective cleavage in intracellular environments. However, despite their compelling attributes, developing reduction sensitive self-immolative linkers for aliphatic amines has been challenging due to their poor leaving group ability and high pK(a)values. Here a traceless self-immolative linker composed of a dithiol-ethyl carbonate connected to a benzyl carbamate (DEC) is presented, which can modify aliphatic amines and release them rapidly and quantitatively after disulfide reduction. DEC was able to reversibly modify the lysine residues on CRISPR-Cas9 with either PEG, the cell penetrating peptide Arg(10), or donor DNA, and generated Cas9 conjugates with significantly improved biological properties. In particular, Cas9-DEC-PEG was able to diffuse through brain tissue significantly better than unmodified Cas9, making it a more suitable candidate for genome editing in animals. Furthermore, conjugation of Arg(10)to Cas9 with DEC was able to generate a self-delivering Cas9 RNP that could edit cells without transfection reagents. Finally, conjugation of donor DNA to Cas9 with DEC increased the homology directed DNA repair (HDR) rate of the Cas9 RNP by 50% in HEK 293T cell line. We anticipate that DEC will have numerous applications in biotechnology, given the ubiquitous presence of aliphatic amines on small molecule and protein therapeutics.

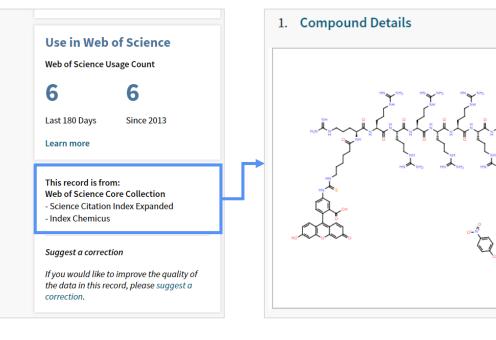
Keywords

KeyWords Plus: DRUG; PEGYLATION: DELIVERY; CONJUGATION; POLYMERS; PRODRUGS; PROTEIN

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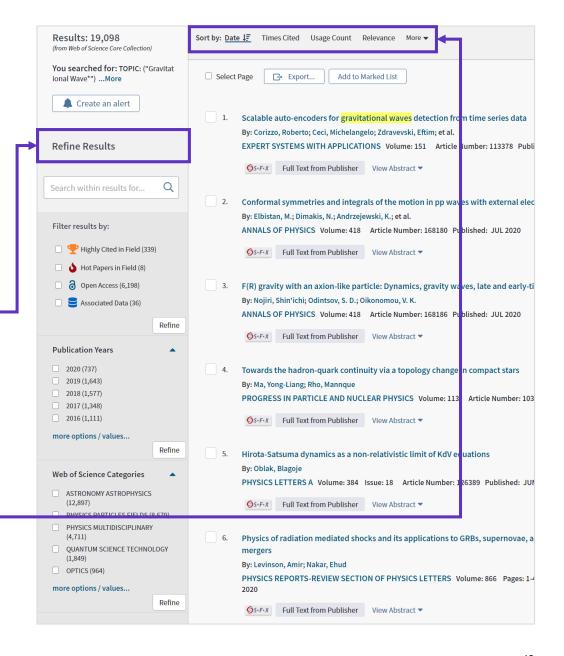
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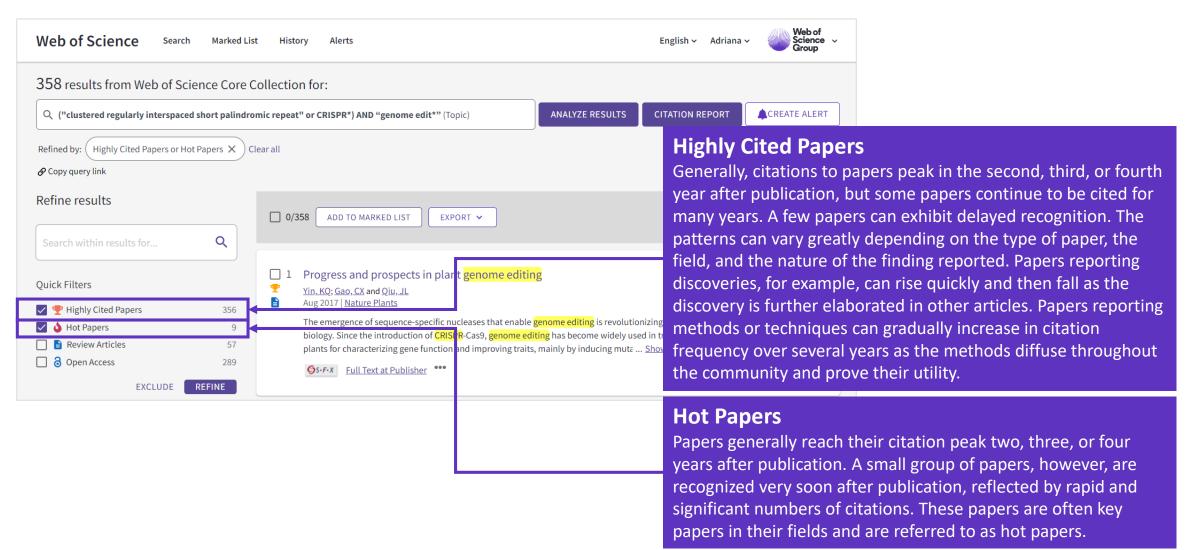
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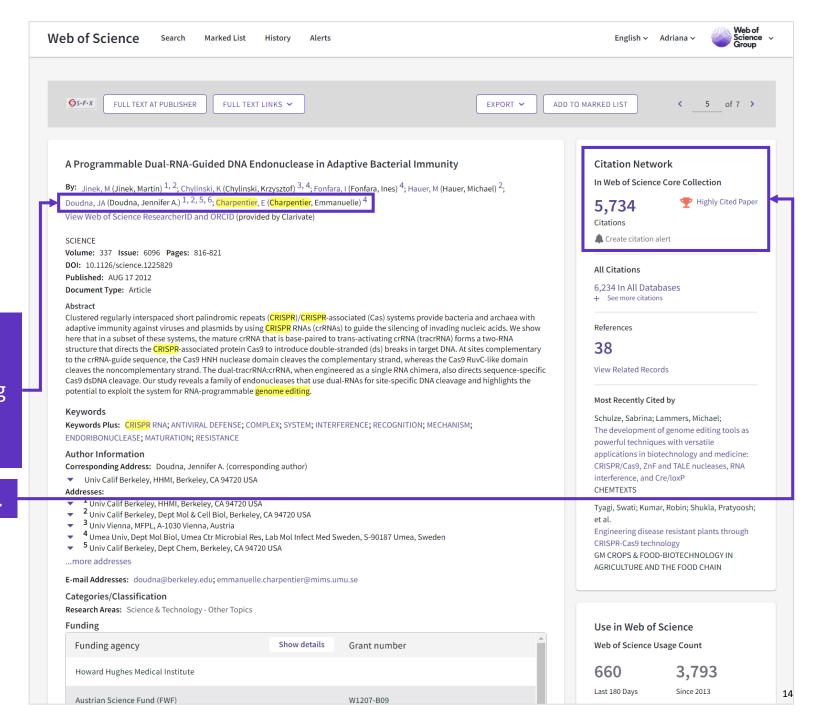




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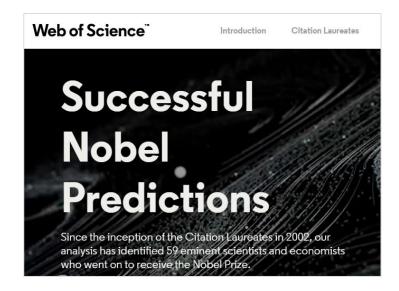
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Emmanuelle Charpentier – Facts – 2020. NobelPrize.org. Nobel Media AB 2020. Wed. 2 Dec 2020. https://www.nobelprize.org/prizes/chemistry/2020/charpentier/facts/

Jennifer A. Doudna Facts



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Jennifer A. Doudna The Nobel Prize in Chemistry 2020

Born: 19 February 1964, Washington, DC, USA

Affiliation at the time of the award: University of California, Berkeley, CA, USA

Prize motivation: "for the development of a method for genome editing."

Prize share: 1/2

Emmanuelle Charpentier Facts



Emmanuelle Charpentier The Nobel Prize in Chemistry 2020

Born: 11 December 1968, Juvisy-sur-Orge, France

Affiliation at the time of the award: Max Planck Unit for the Science of Pathogens, Berlin, Germany

Prize motivation: "for the development of a method for genome editing."

Prize share: 1/2

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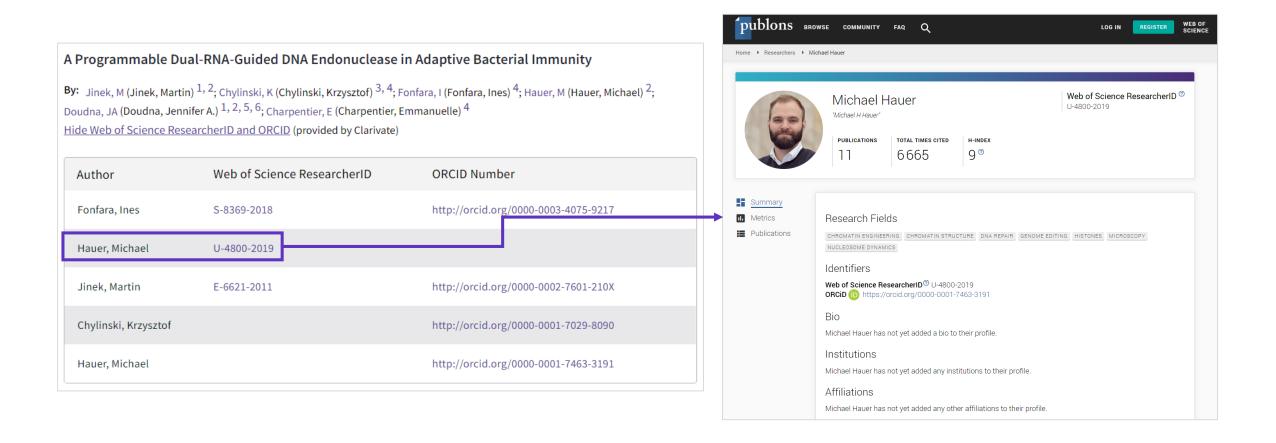
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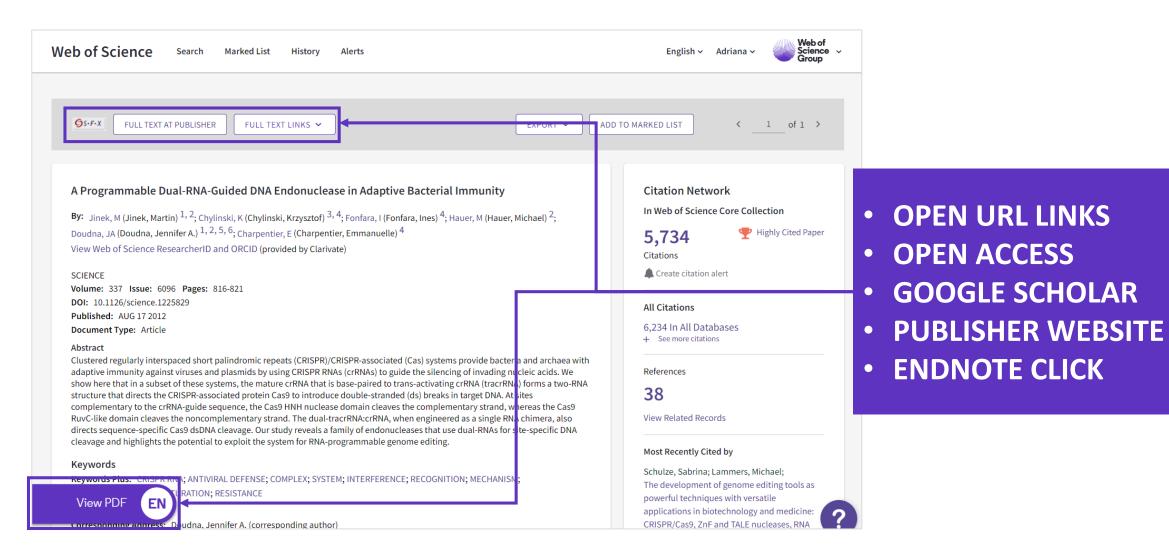


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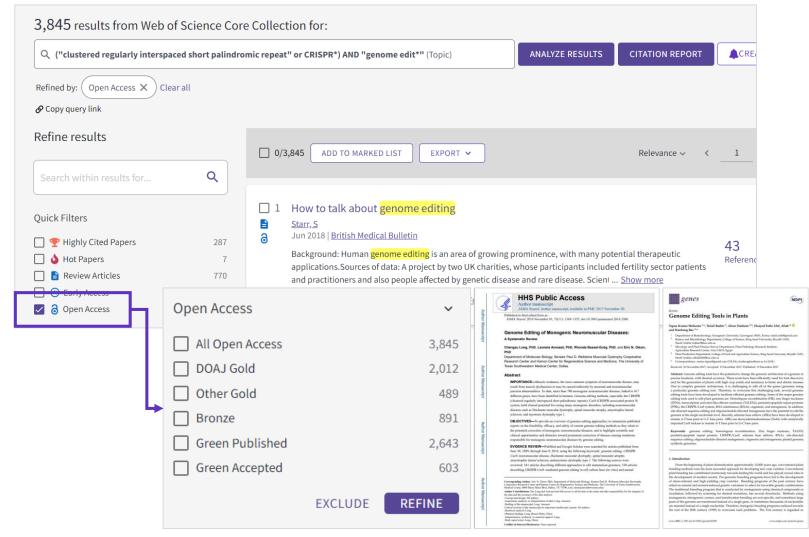


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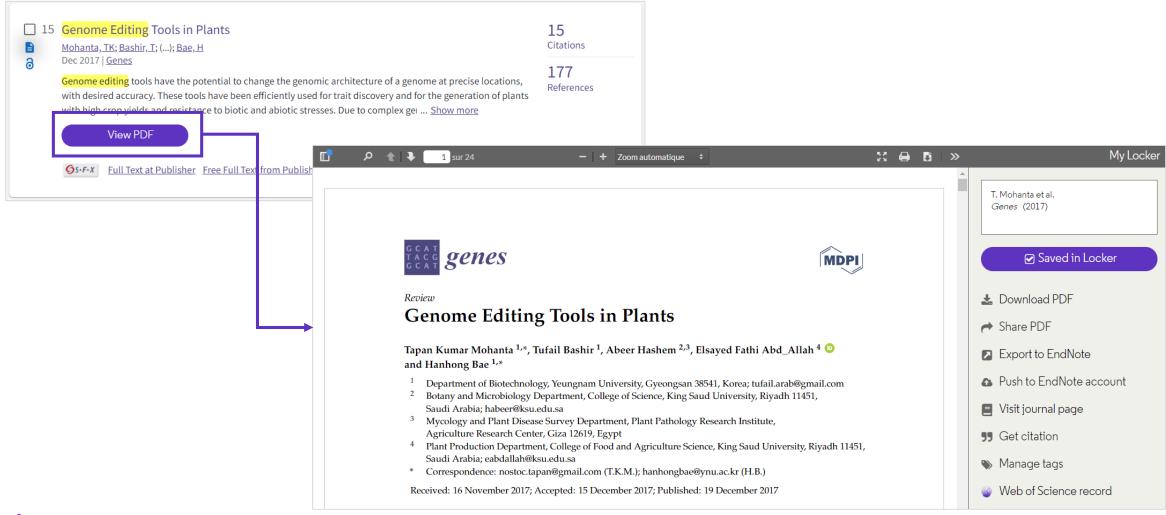
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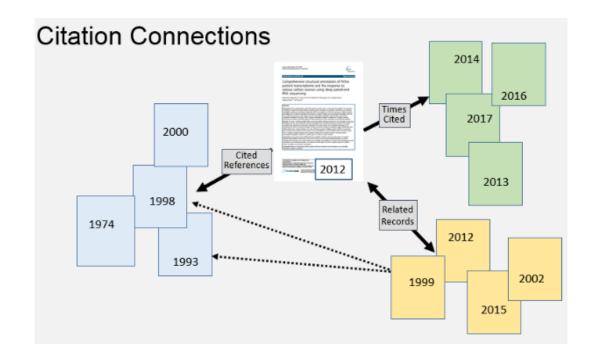
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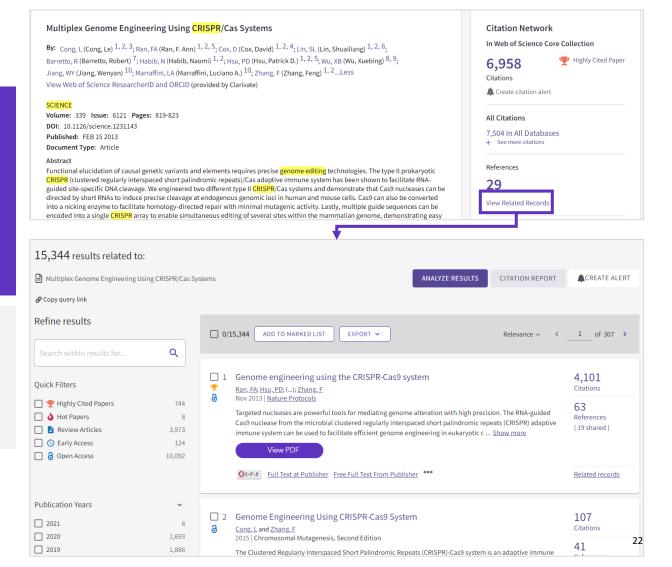




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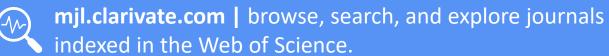
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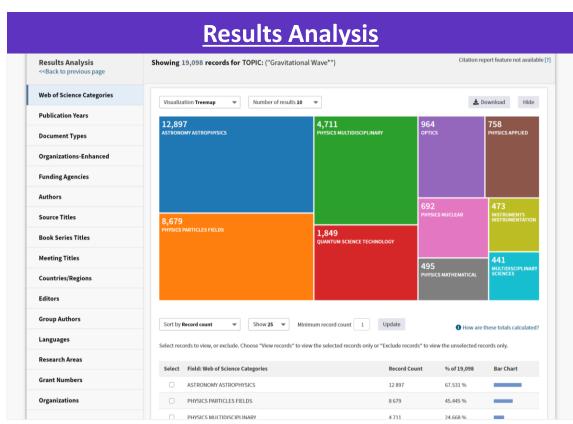
JCR Category	Rank in Category	Quartile in Category
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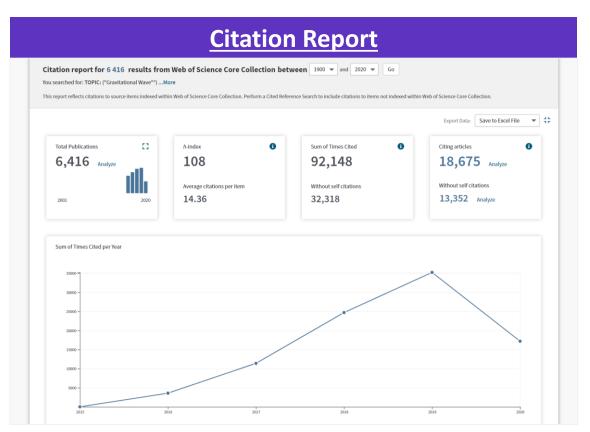




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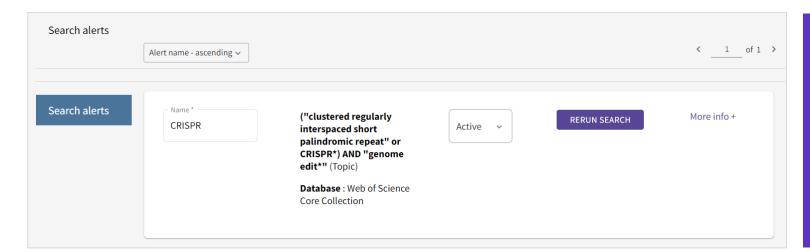
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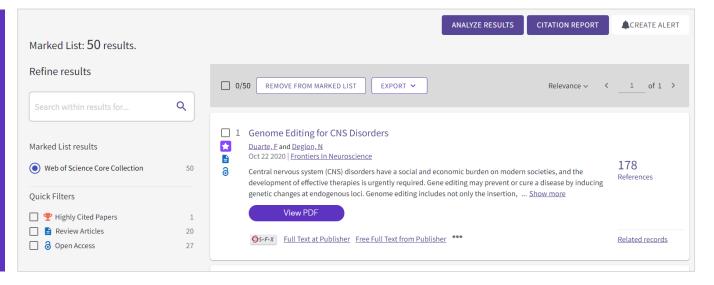
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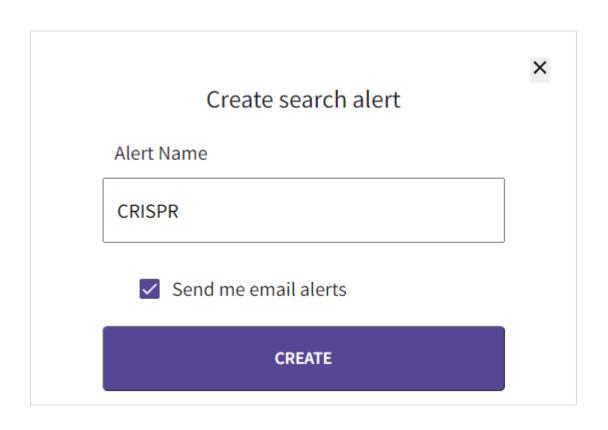
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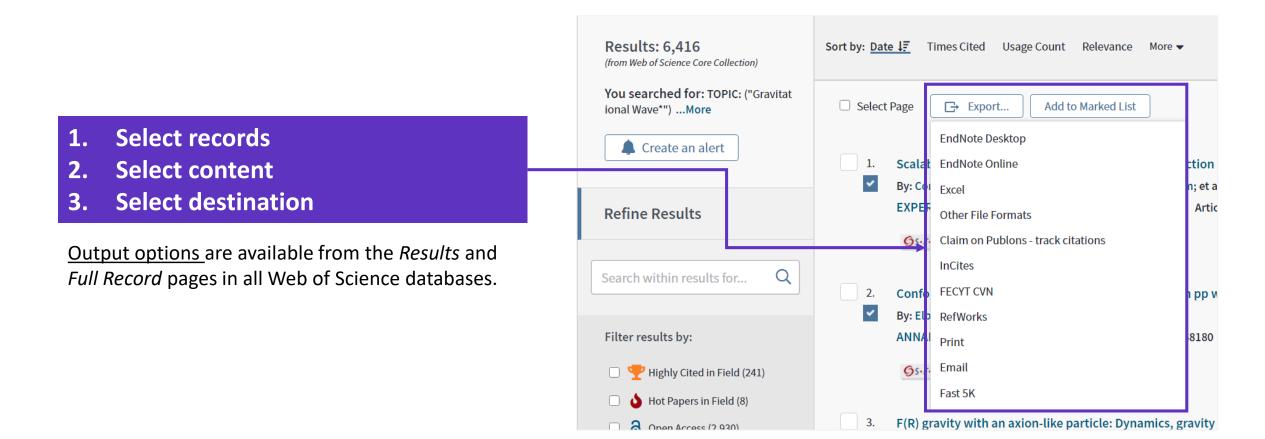
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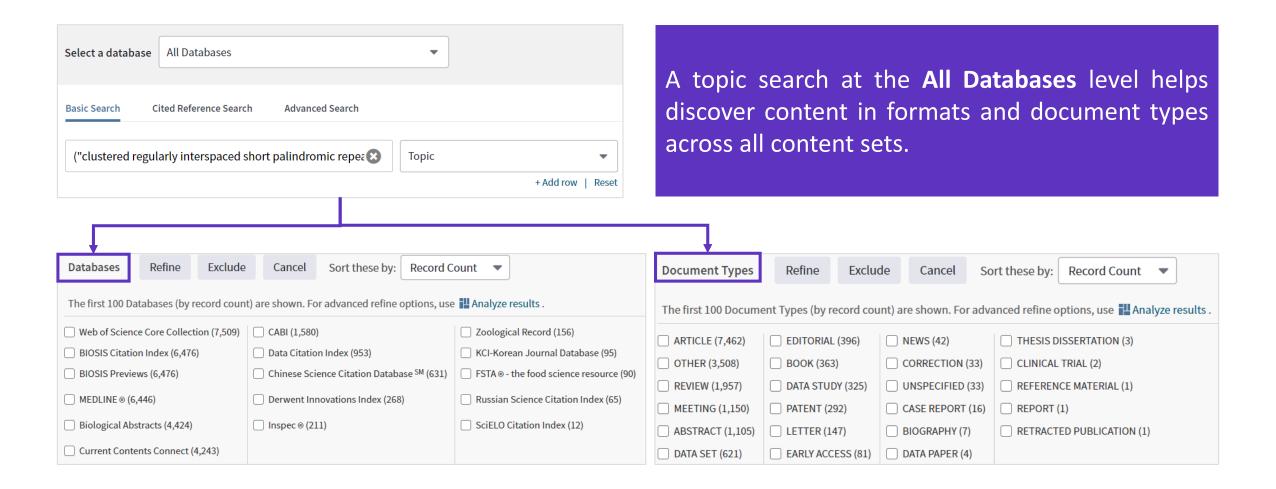


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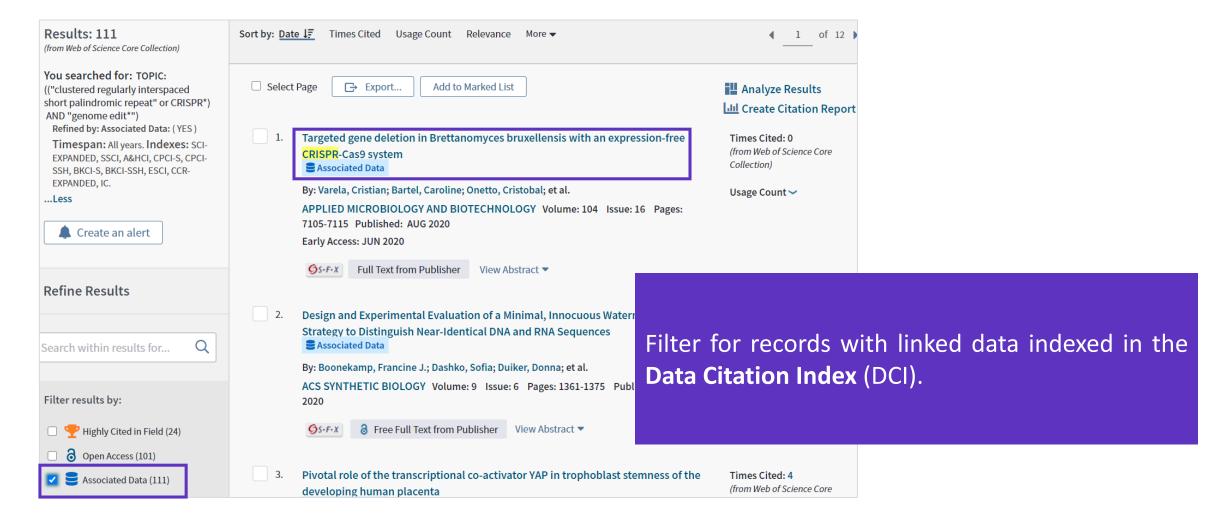


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Data Citation Index



Abstract

The ability to genetically manipulate microorganisms has been essential for understanding their biolog Targeted genome editing relies on highly efficient homologous recombination, and while this is readily Saccharomyces cerevisiae, most non-conventional yeast species do not display this trait and remain recediting methods. CRISPR-based editing can bypass the requirement for high levels of native homologout targeted modification to be more broadly implemented. While genetic transformation has been reported. Brettanomyces bruxellensis, a yeast with broad biotechnological potential and responsible for significating the production of fermented beverages, targeted editing approaches have not been reported. Here, we expression-free CRISPR-Cas9 system, in combination with gene transformation cassettes tailored for B.

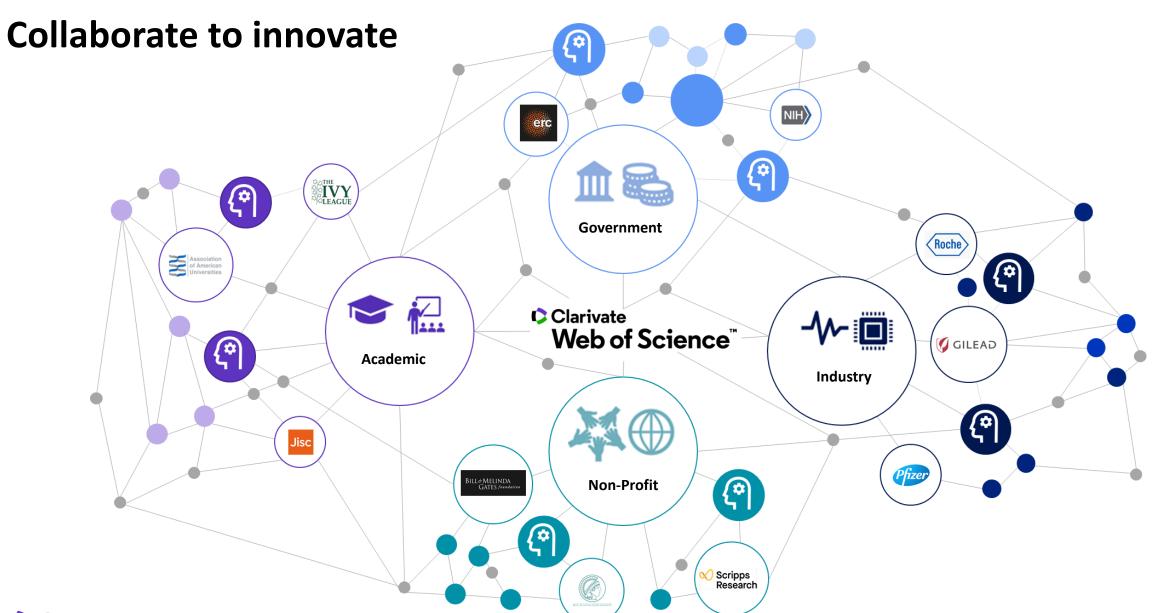
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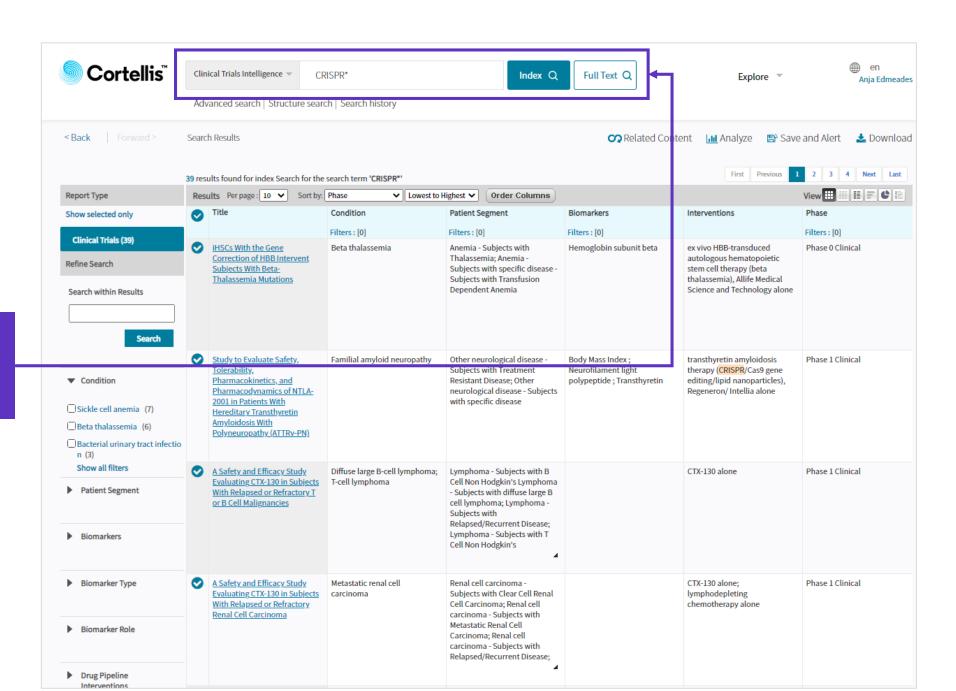
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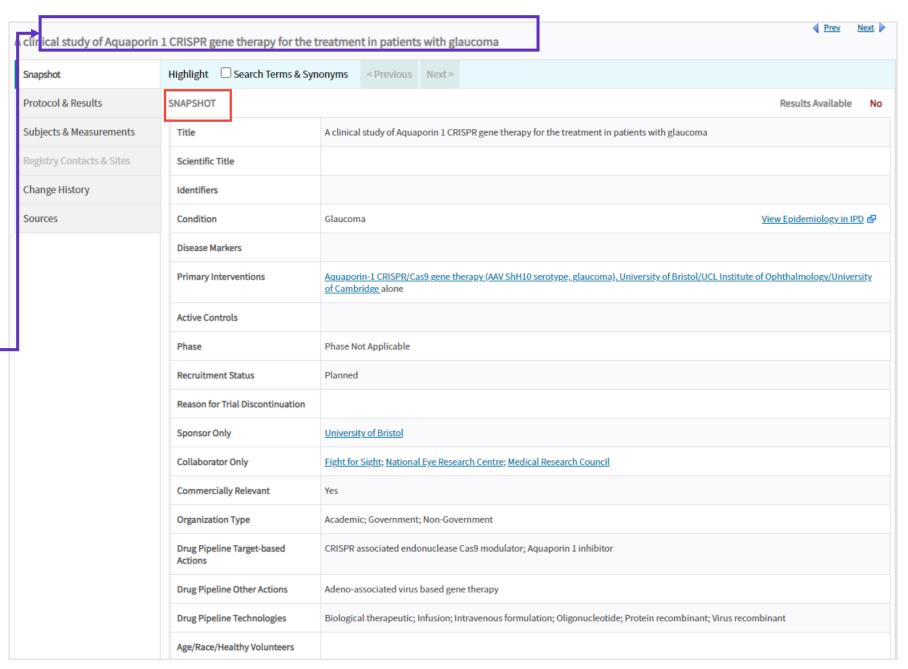
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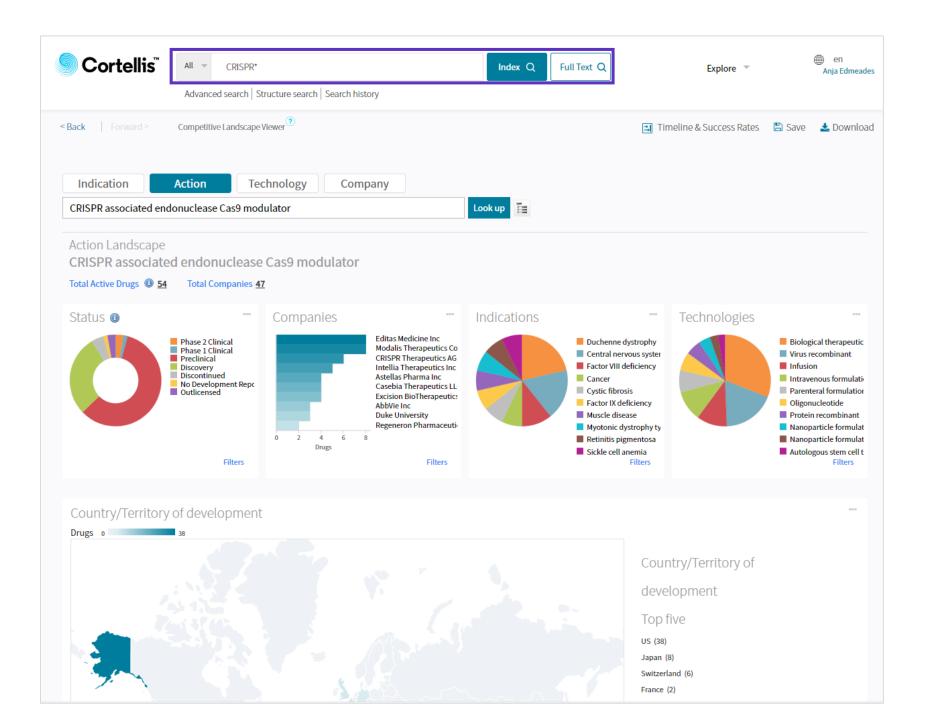
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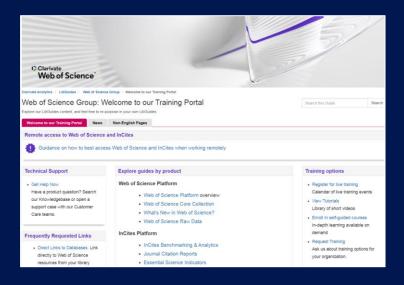


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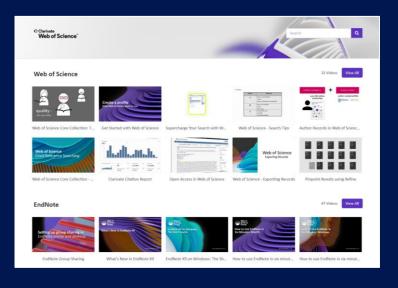




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