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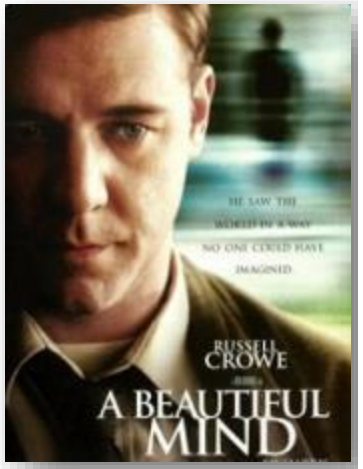

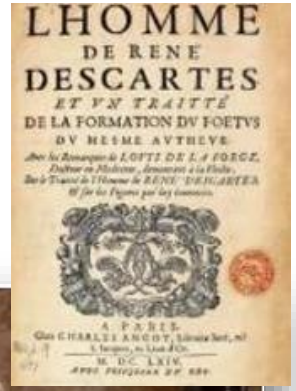

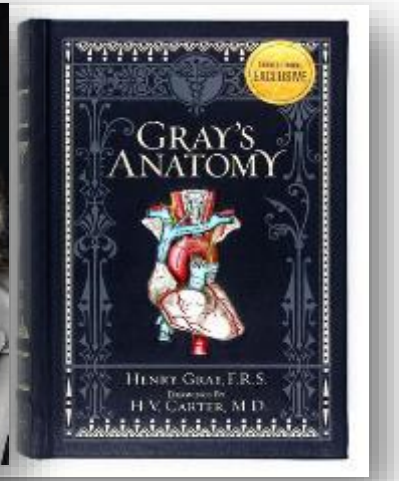

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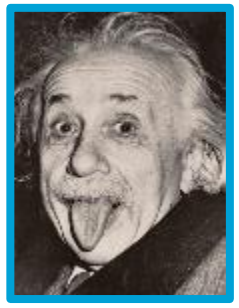

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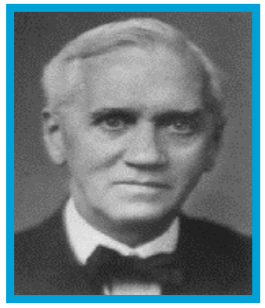

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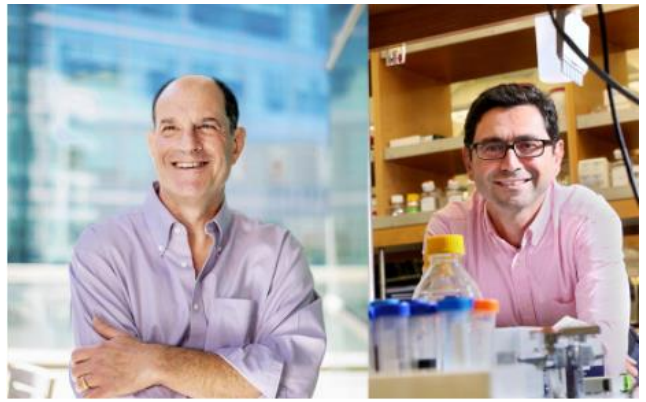

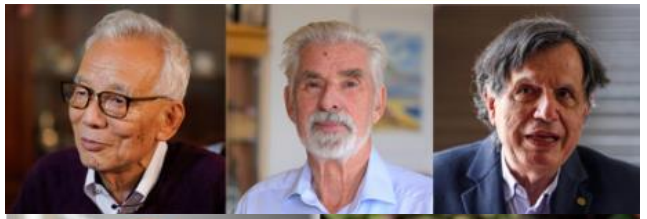

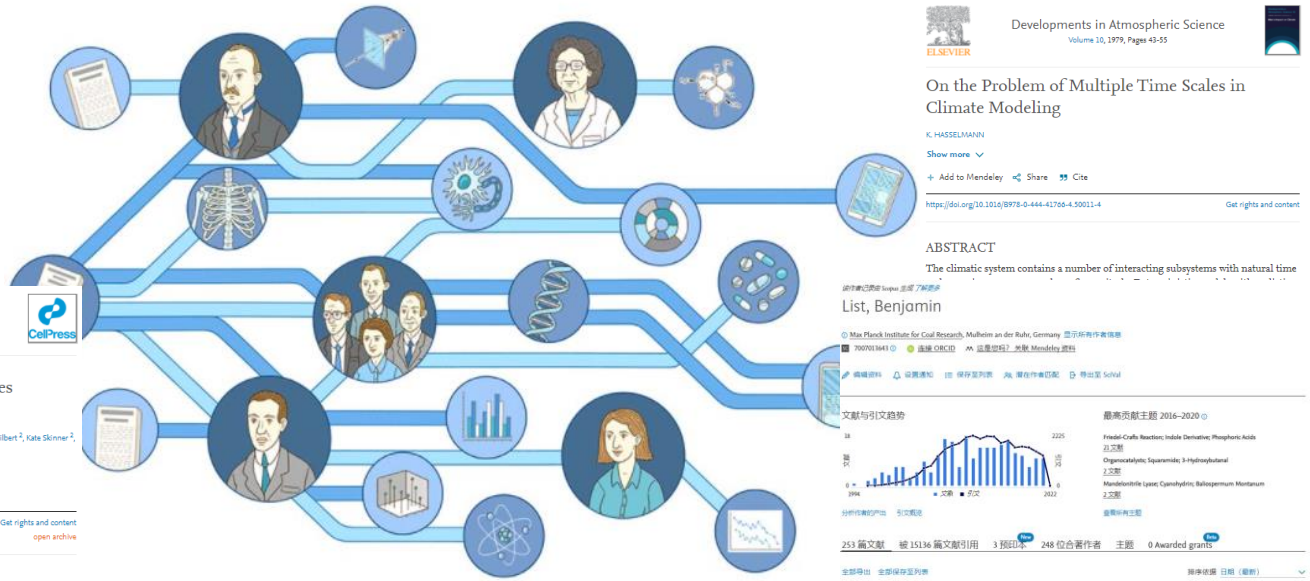

Neuron
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Article
The Cloned Capsaicin Receptor Integrates Multiple Pain-Producing Stimuli

Makoto Tominaga [1], Michael J Caterina [1], Annika B Malmberg [2], Tobias A Rosen [1], Heather Gilbert [2], Kate Skinner [2], Brigitte E Raumann [1], Allan I Basbaum [2], David Julius [1] ⁂

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Capsaicin, the main pungent ingredient in "hot" chili peppers, elicits burning pain by activating specific (vanilloid) receptors on sensory nerve endings. The cloned vanilloid receptor (VR1) is a cation channel that is also activated by noxious heat. Here, analysis of heat-evoked single channel currents in excised membrane patches

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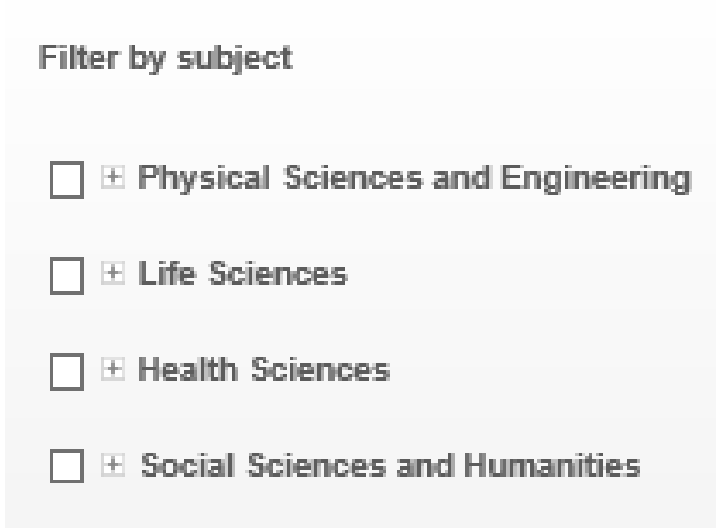

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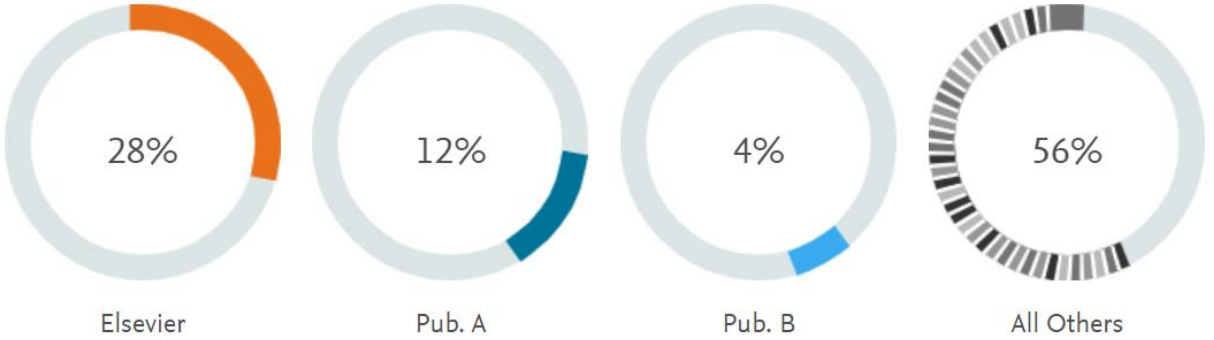

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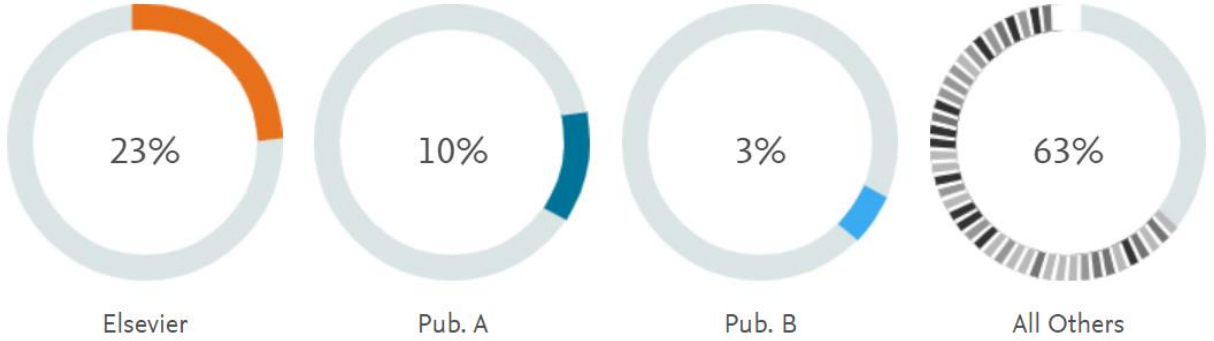

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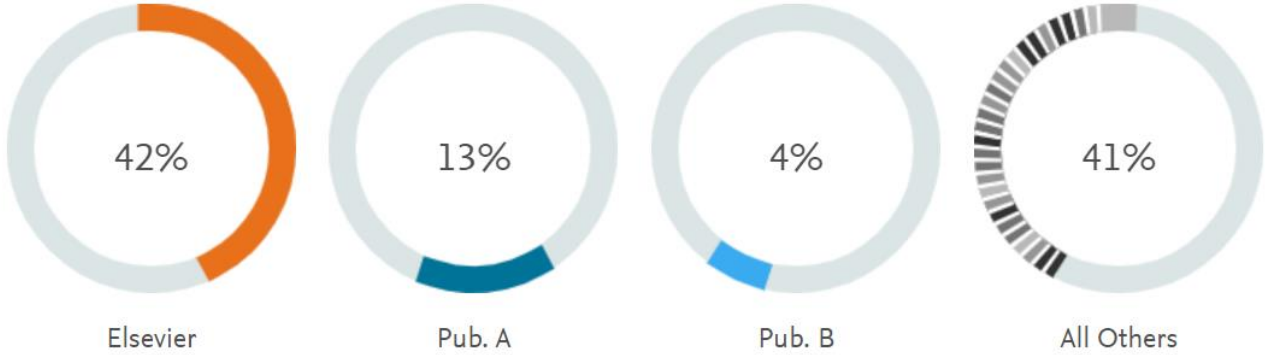

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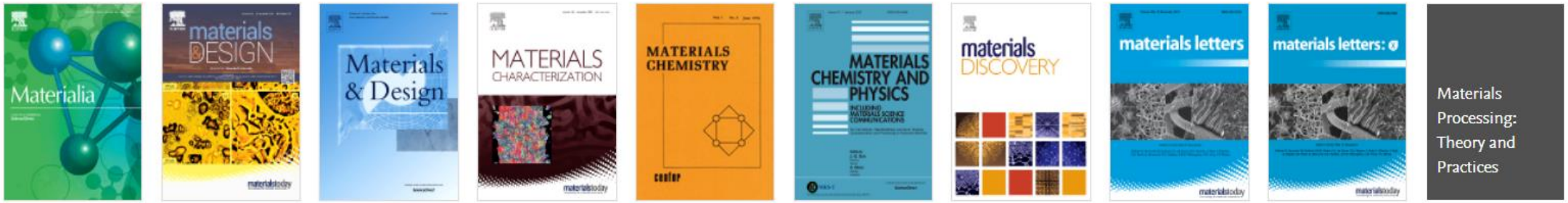

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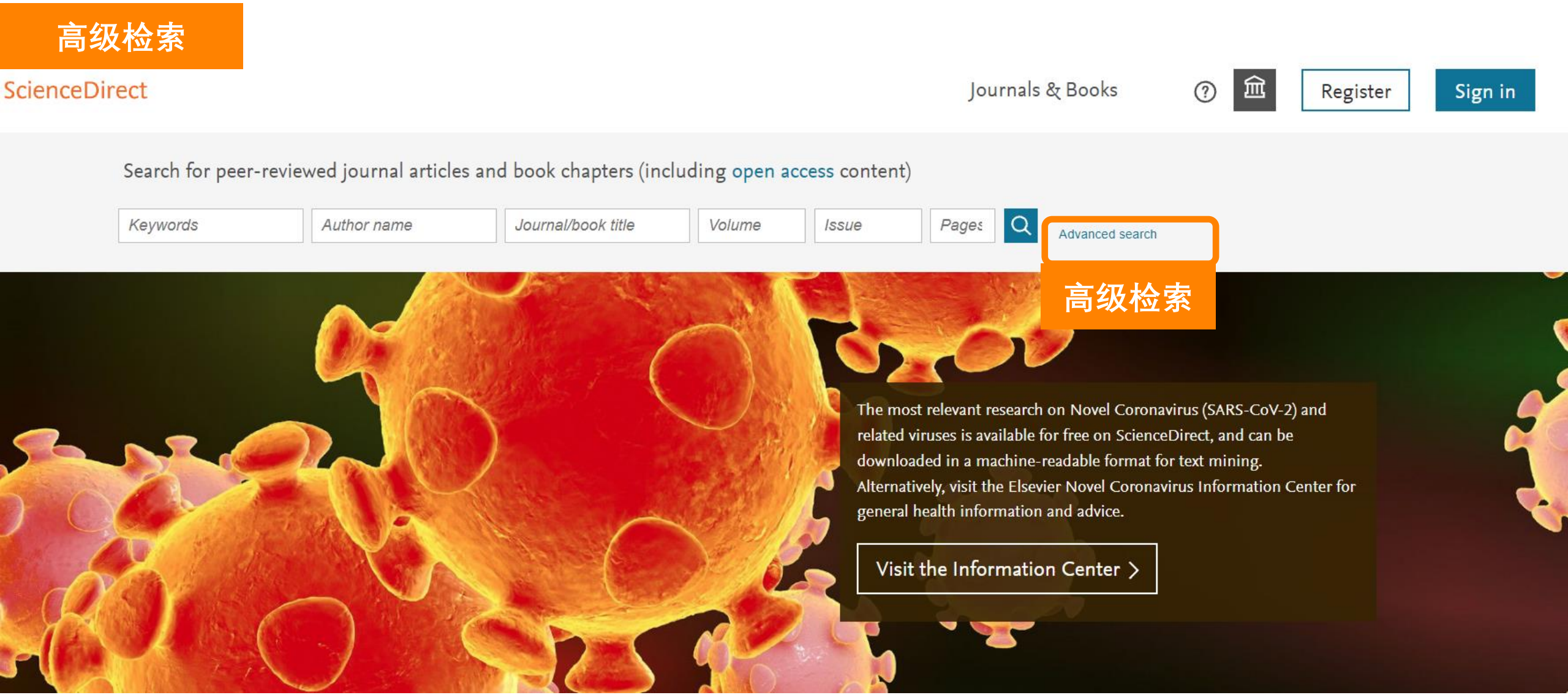

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布尔运算符

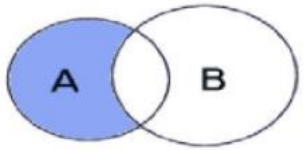
Use Boolean operators to combine multiple terms:

- Boolean operators currently supported include AND, OR, NOT, and the hyphen (or minus symbol)
- Boolean operators must be entered in all uppercase
- The hyphen (or minus symbol) is interpreted as the NOT operator

For example: `black -hole` will return results containing 'black', but exclude any instances where 'hole' appears with it.

- Boolean precedence is as follows:

1. NOT
2. AND
3. OR



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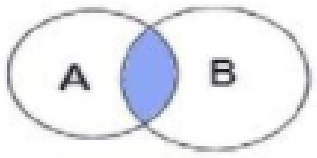

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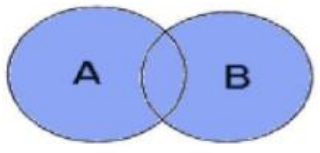

OR

- Parentheses can be used when nesting clauses so the grouping is clear

For example: For `a OR b AND c`, enter `a OR (b AND c)`

- Quotation marks can be used to specify terms which must appear next to each other

For example: `("heart attack" OR "myocardial infarction") AND diabetes AND NOT cancer`

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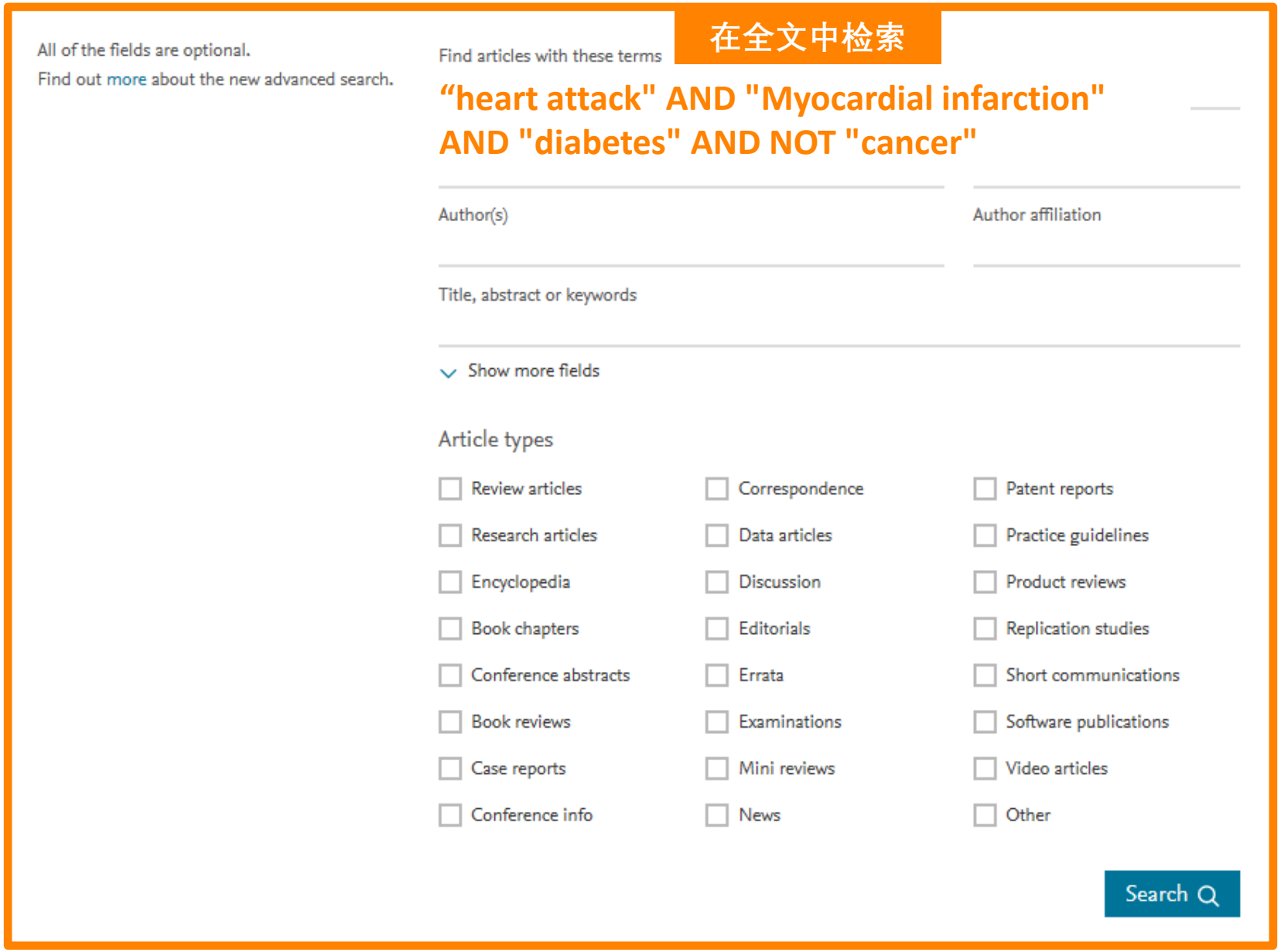
案例：
输入“heart attack" AND "Myocardial infarction" AND "diabetes" AND NOT "cancer"



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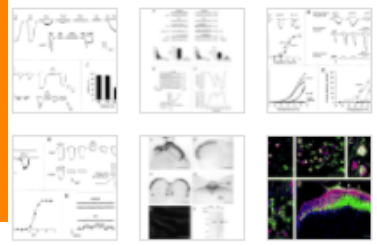

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Abstract

摘要

Capsaicin, the main pungent ingredient in "hot" chili peppers, elicits burning pain by activating specific (vanilloid) receptors on sensory nerve endings. The cloned vanilloid receptor (VR1) is a cation channel that is also activated by noxious heat. Here, analysis of heat-evoked single channel currents in excised membrane patches suggests that heat gates VR1 directly. We also show that protons decrease the temperature threshold for VR1 activation such that even moderately acidic conditions (pH ≤ 5.9) activate VR1 at room temperature. VR1 can therefore be viewed as a molecular integrator of chemical and physical stimuli that elicit pain. Immunocytochemical analysis indicates that the receptor is located in a neurochemically heterogeneous population of small diameter primary afferent fibers. A role for VR1 in injury-induced hypersensitivity at the level of the sensory neuron is presented.

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Article

The Cloned Capsaicin Receptor Integrates Multiple Pain-Producing Stimuli

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Abstract

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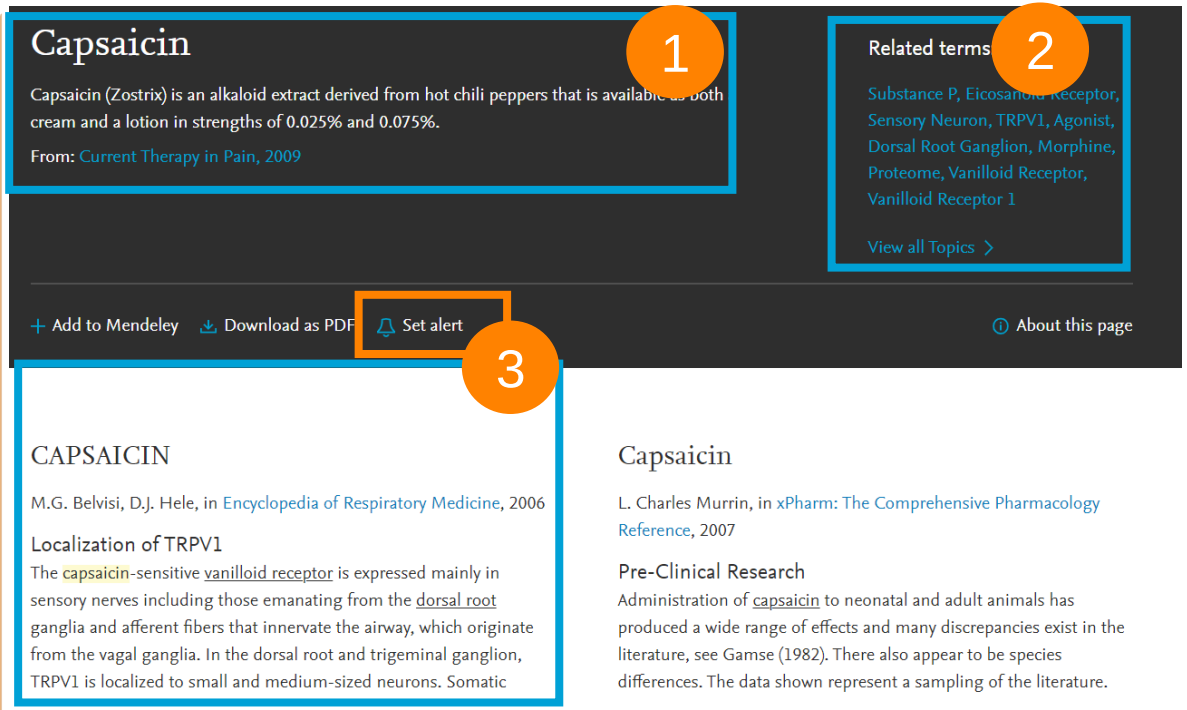

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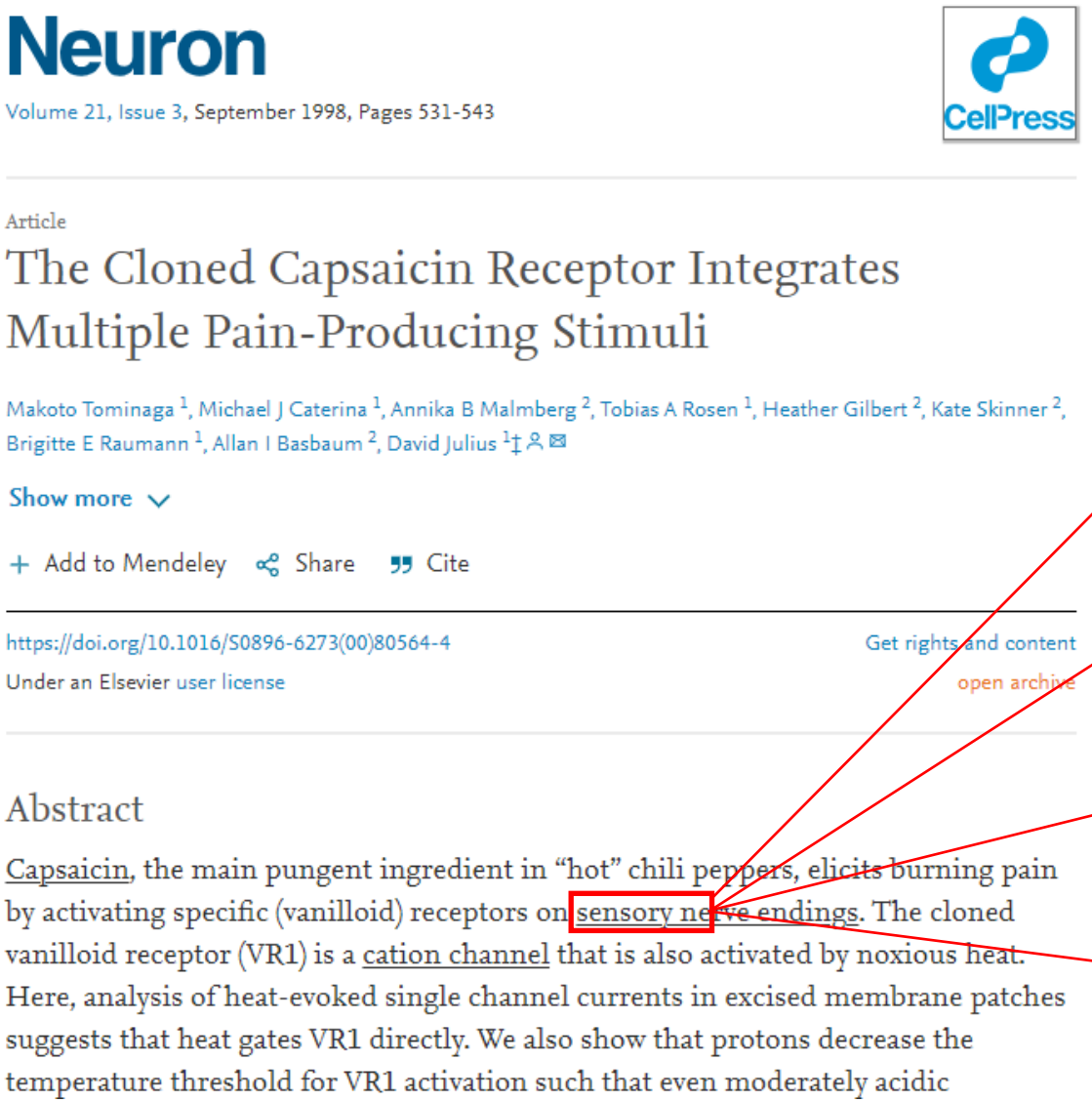

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The Cloned Capsaicin Receptor Integrates Multiple Pain-Producing Stimuli

Makoto Tominaga [1], Michael J Caterina [1], Annika B Malmberg [2], Tobias A Rosen [1], Heather Gilbert [2], Kate Skinner [2], Brigitte E Raumann [1], Allan I Basbaum [2], David Julius [1]

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Capsaicin, the main pungent ingredient in "hot" chili peppers, elicits burning pain by activating specific (vanilloid) receptors on sensory nerve endings. The cloned vanilloid receptor (VR1) is a cation channel that is also activated by noxious heat. Here, analysis of heat-evoked single channel currents in excised membrane patches suggests that heat gates VR1 directly. We also show that protons decrease the temperature threshold for VR1 activation such that even moderately acidic

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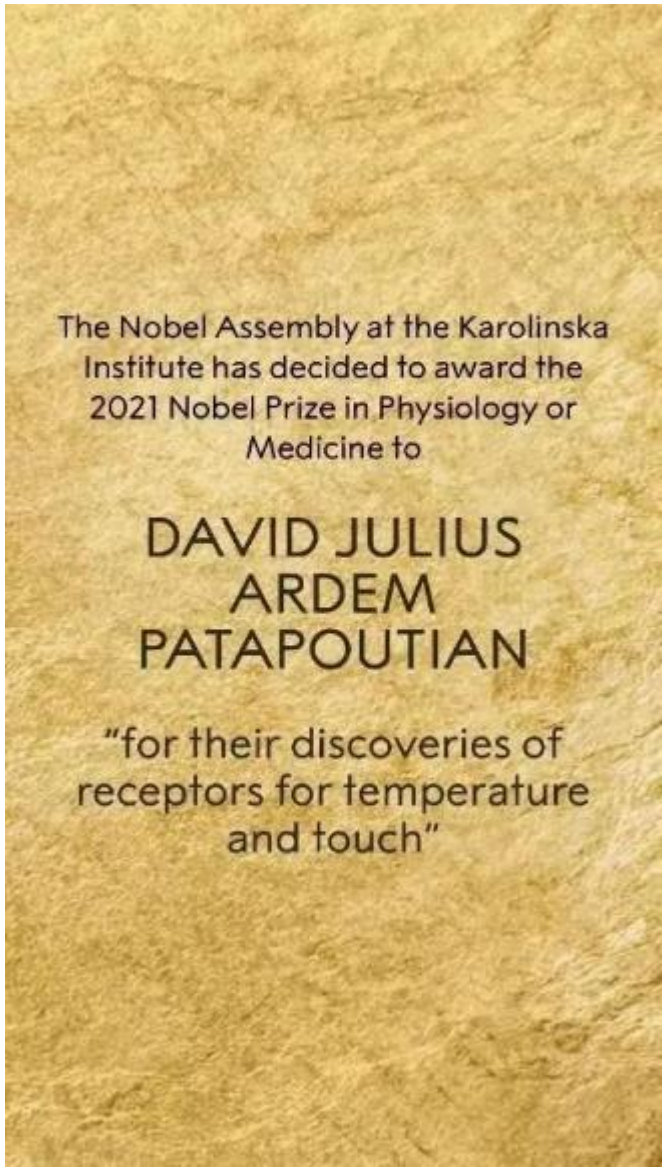

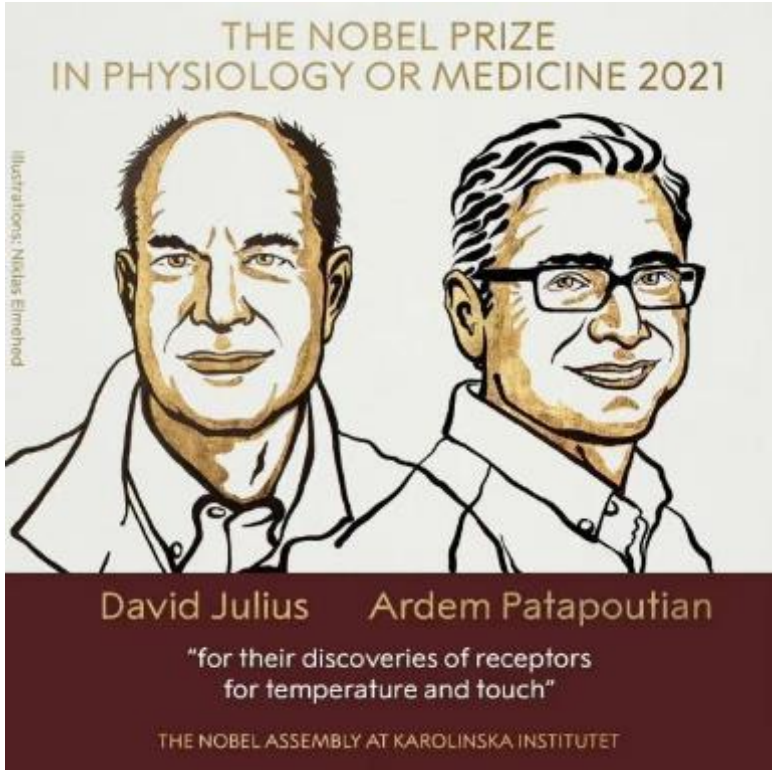

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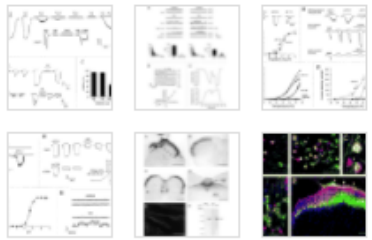

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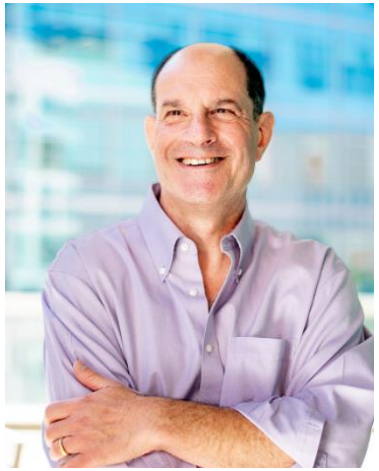

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1990 Stanford University Medical Center, Stanford, United States
1979 - 1984 University of California, Berkeley, Berkeley, United States

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Article

Structural snapshots of TRPV1 reveal mechanism of polymodal functionality

Kaihua Zhang [1], David Julius [2], Yifan Cheng [1, 3, 4]

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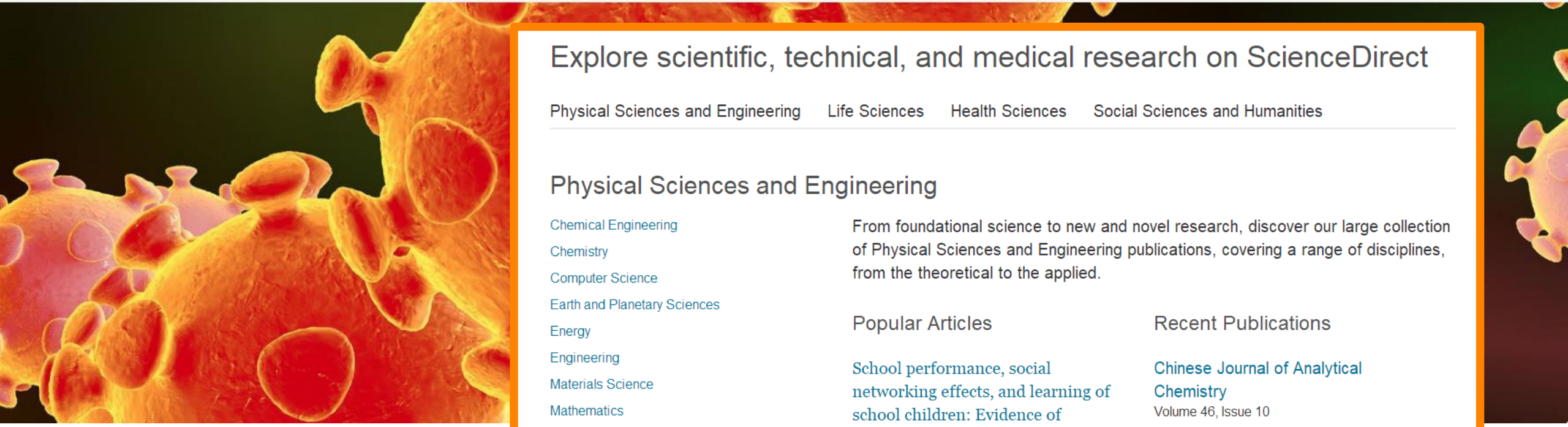

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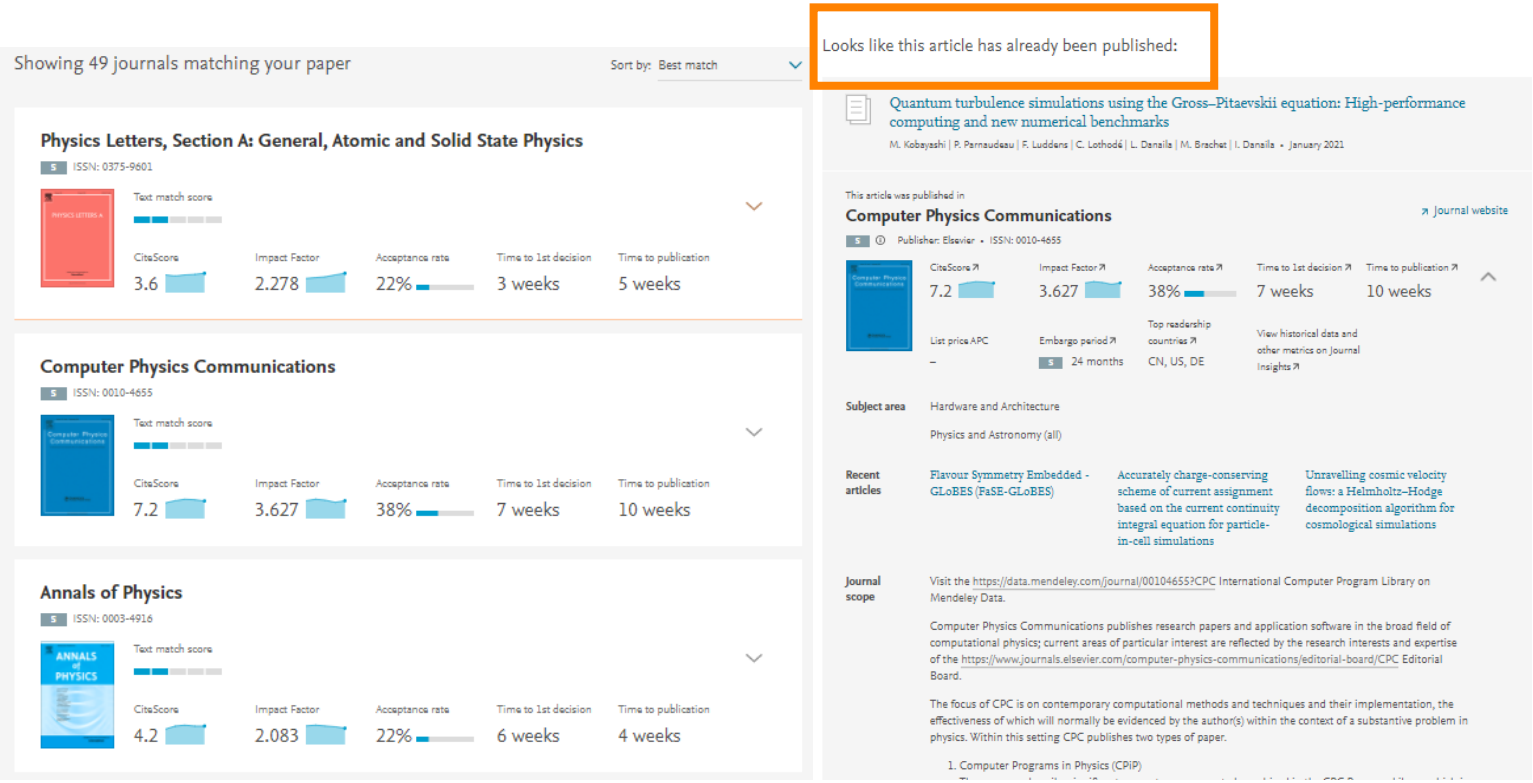

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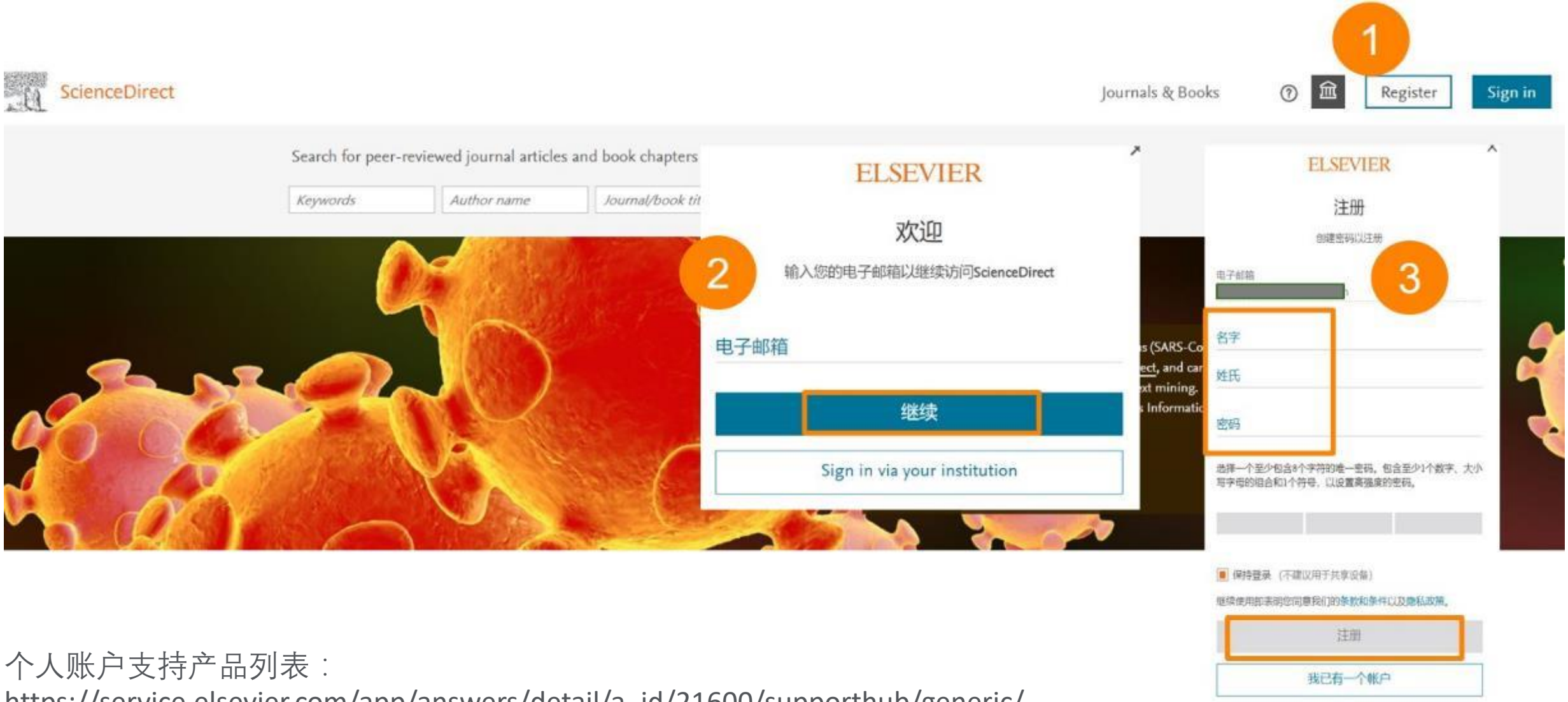

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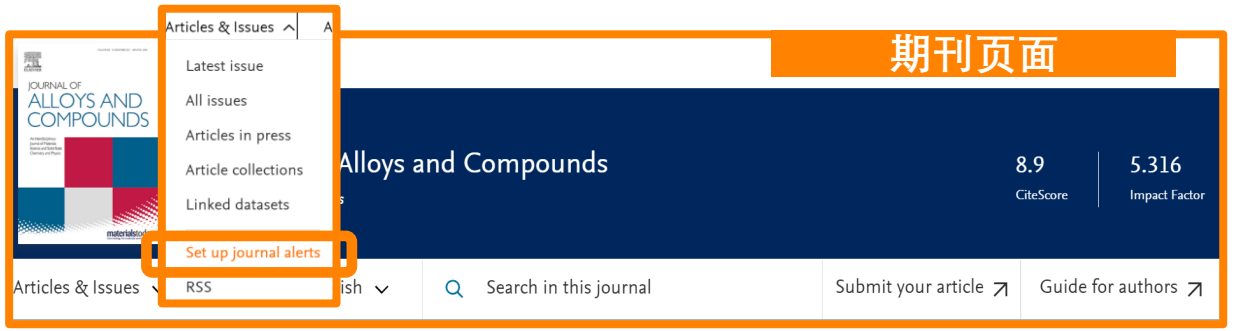

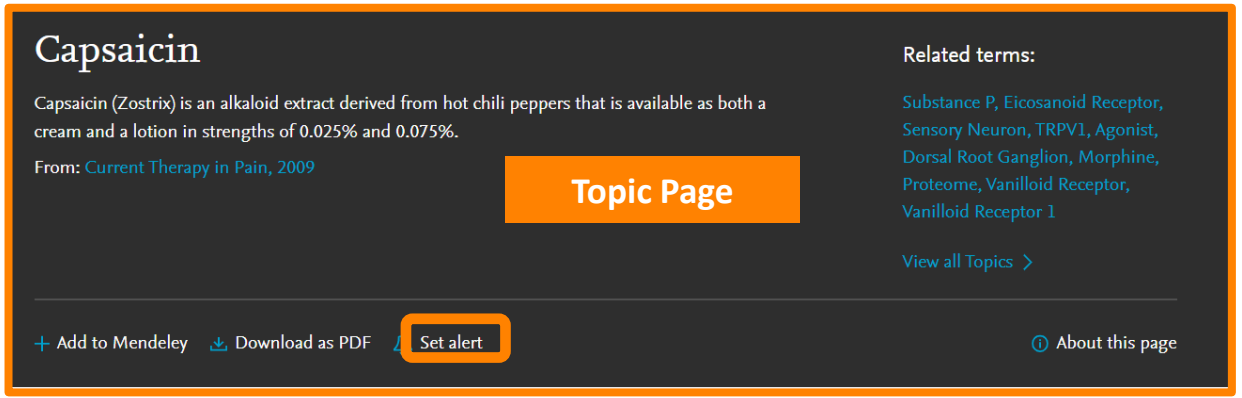

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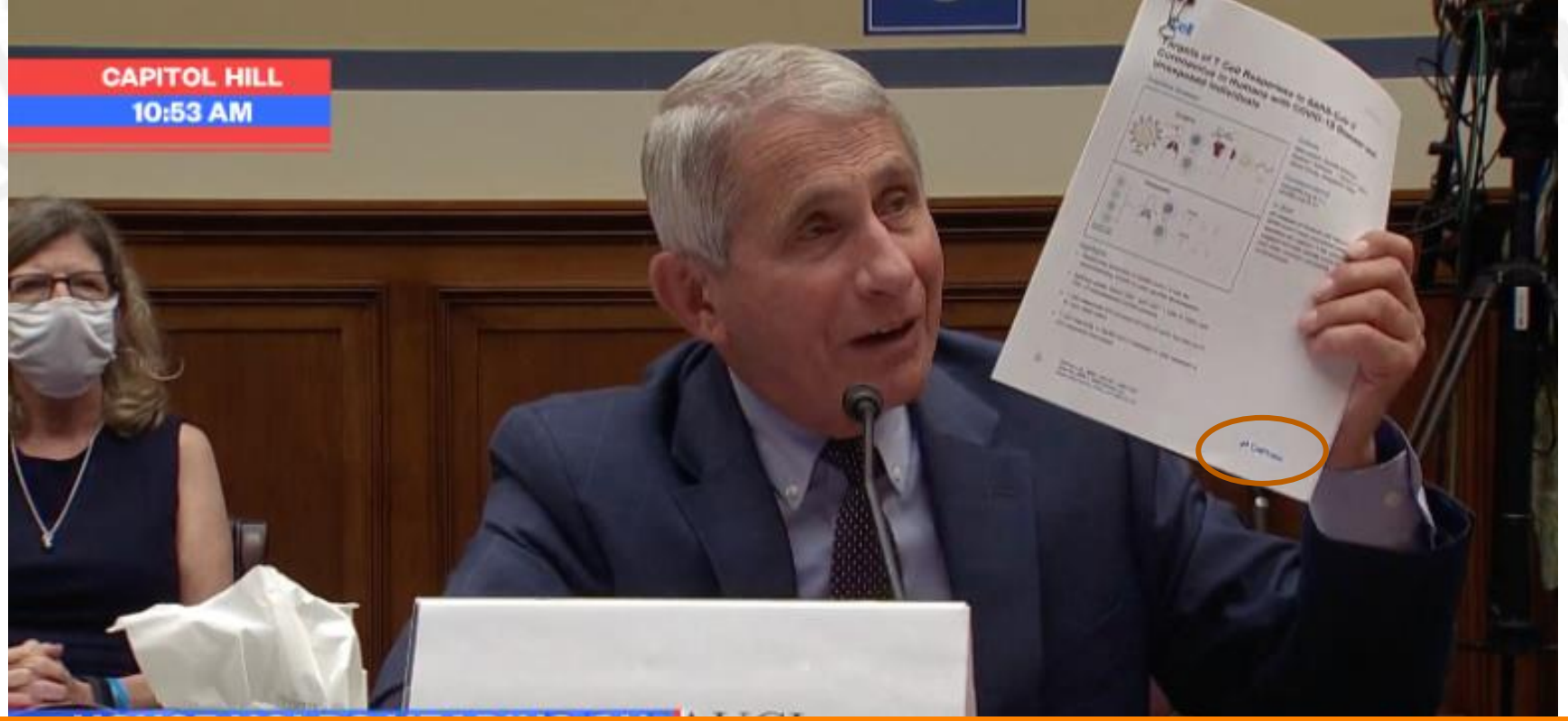

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