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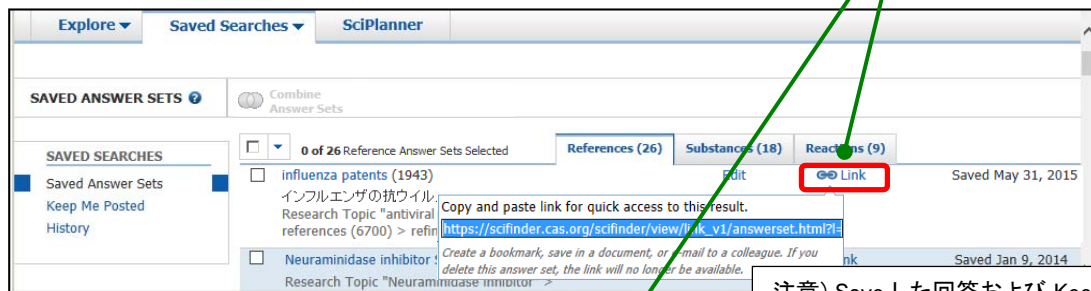
23. Proton channel activity of influenza A virus matrix protein 2 contributes to autophagy arrest

By: Ren, Yizhong; Li, Chufang; Feng, Liliang; Pan, Weiqi; Li, Liang; Wang, Qian; Li, Jiaohun; Li, Na; Han, Ling; Zheng, Xuehua; Niu, Xuefeng; Sun, Cajun; Chen, Ling

Influenza A virus infection can arrest autophagy, as evidenced by autophagosome accumulation in infected cells. Here, we report that this autophagosome accumulation can be inhibited by amantadine, an antiviral proton channel inhibitor, in amantadine-sensitive virus infected cells or cells expressing influenza A virus matrix protein 2 (M2). Thus, M2 proton channel activity plays a role in blocking the fusion of autophagosomes with lysosomes, which might be a key mechanism for arresting autophagy.

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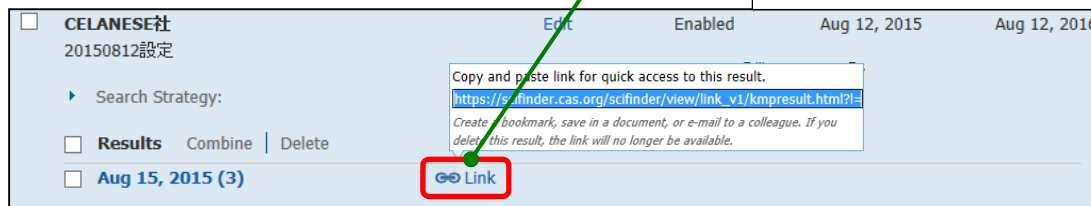
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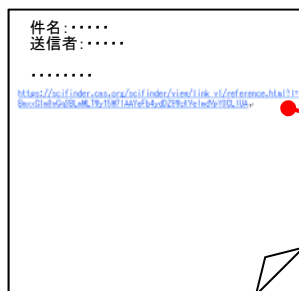
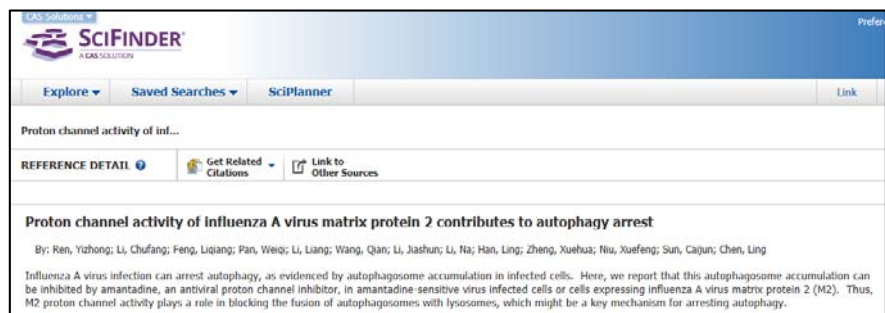
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