

## NS5A-P32 deletion as an obstacle to DAA therapy

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2 **A challenge to overcome: NS5A-P32 deletion in DAA-based therapy for HCV**

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4 Sato and Uraoka. NS5A-P32 deletion as an obstacle to DAA therapy

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6 **Ken Sato, Toshio Uraoka**

7

8 **Abstract**

9 Interferon (IFN)-based therapy for hepatitis C virus (HCV) infection has  
10 recently been replaced by IFN-free direct-acting antiviral (DAA)-based therapy,  
11 which has been established as a 1<sup>st</sup> line therapy with high efficacy and  
12 tolerability due to its reasonable safety profile. Resistance-associated  
13 substitutions (RASs) have been a weakness of DAA-based therapy.  
14 For example, combination therapy with daclatasvir and asunaprevir  
15 (DCV/ASV) is less effective for HCV genotype 1-infected patients with Y93H as  
16 a non-structural (NS)5A RAS. However, the problem regarding RASs has been  
17 gradually overcome with the advent of recently developed DAAs, such as  
18 sofosbuvir-based regimens or combination therapy with glecaprevir and  
19 pibrentasvir. Despite the high efficiency of DAA-based therapy, some cases fail  
20 to achieve viral eradication. P32 deletion, an NS5A RAS, has been gradually  
21 noticed in patients with DCV/ASV failure. P32 deletion has been sporadically  
22 reported and the prevalence of this RAS has been considered to be low in

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Direct-acting antiviral (**DAA**) **treatment** produced a sustained virological response 12 (SVR12). ... of direct-acting antivirals in chronic **hepatitis C** patients with **NS5A-P32 deletion** .... Abstract: A prospective study **based** on serial liver biopsies was performed to .... Some of these adverse effects can be **overcome** and reduced.

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Direct-acting antiviral (**DAA**) **treatment** produced a sustained virological response 12 ... 4 of 6 patients with **P32 deletion** received retreatment of DAAs, and could not ... with **HCV** genotype 1-related chronic liver disease treated with either **NS5A** .... (TDF)-**based** rescue **therapy** in patients with chronic **hepatitis B** refractory to ...

### [Successes and Challenges on the Road to Cure Hepatitis C - PLOS](#)

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Jun 18, 2015 - While the successes attributable to **DAA** combination **therapies** will be many, ... several of the greatest successes and future **challenges** in **HCV** therapeutics today. .... Combining simeprevir with the potent **DAA** sofosbuvir appears to **overcome** this ... Baseline **NS5A** polymorphisms that confer resistance are ...

Missing: p32 deletion

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