299	Case	e Study – Usher syndrome
300	A female presented with retinitis pigmentosa (RP) and congenital deafness suggesting a clinical	
301 302	diagnosis of Usher syndrome. There was no family history.	
303 304	Targe	ted NGS testing identified no molecular cause. The patient carried:
305	i)	a 'likely pathogenic' heterozygous variant in IDH3B, c.184G>T, p.(Glu62*).
306 307 308	Mutations in <i>IDH3B</i> have previously been associated with autosomal recessive non-syndromic RP. <sup>30</sup> This finding, therefore, was concluded not to contribute to the molecular diagnosis of IRD for this individual.	
309 310	Analysis of WGS data additionally identified:	
311	ii)	a 'likely pathogenic' heterozygous GPR98 non-coding variant, c.1239-8C>G
312 313 314	iii)	a 'likely pathogenic' heterozygous deletion, c.16079-1456_ c.16196+155del p.(Ser5361Profs*25), removing a protein-coding region (exon) of <i>GPR98</i> (Figure 3) and expected to cause premature termination of protein translation.
315 316	Homozygous and compound heterozygous mutations in <i>GPR98</i> cause Usher syndrome. <sup>2</sup> These findings were therefore concluded to confirm a <i>diagnosis of autosomal recessive Usher syndrome</i> .	