PublisherInfo				
PublisherName	:	BioMed Central		
PublisherLocation	:	London		
PublisherImprintName	:	BioMed Central		

## Pheromone phenotypes

ArticleInfo		
ArticleID	:	4574
ArticleDOI	$ \cdot $	10.1186/gb-spotlight-20020909-01
ArticleCitationID	:	spotlight-20020909-01
ArticleSequenceNumber	:	240
ArticleCategory		Research news
ArticleFirstPage		1
ArticleLastPage	$ \cdot $	2
ArticleHistory		RegistrationDate: 2002–9–9OnlineDate: 2002–9–9
ArticleCopyright	:	BioMed Central Ltd2002
ArticleGrants	:	
ArticleContext	:	130593311

The V1r genes encode a large superfamily of receptors that are expressed in the sensory neurons of the vomeronasal organ (VNO) and are thought to be important in pheromone detection and responses. In the September 5 Nature, Del Punta *et al.* describe the phenotypes of mice lacking a large genomic region that contains *V1r* genes (*Nature* 2002, **419**:70-74). They used the Cre-loxP system to engineer a 600 kb deletion in the mouse genome, removing a cluster of 16 genes (12% of the functional V1r repertoire). The mutant mice displayed defects in a subset of VNO-dependent behaviours, including reduced maternal aggression towards intruders and dysfunctions in male sexual behaviour. The deletion also abolished the electrophysiological response of the VNO to a subset of V1r ligands (the authors use the term "specific avnosmia").

## References

- 1. A novel family of genes encoding putative pheromone receptors in mammals.
- 2. The vomeronasal organ.
- 3. Nature, [http://www.nature.com]
- 4. Engineering chromosomal rearrangements in mice.