

Resource Summary Report

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HORDE - Human Olfactory Receptor Data Exploratorium

RRID:SCR_007719

Type: Tool

Proper Citation

HORDE - Human Olfactory Receptor Data Exploratorium (RRID:SCR_007719)

Resource Information

URL: <http://bioportal.weizmann.ac.il/HORDE/>

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Description: HORDE (The Human Olfactory Data Explorer) is a database of human Olfactory Receptors (ORs), the largest multigene family in multicellular organisms. You will find here information on the OR proteins, their gene structure and their genomic organization. Also available are OR repertoires of other mammalian species, along with a set of analysis tools. human olfactory receptor, :OR, OR proteins, olfactory receptor, THIS RESOURCE IS NO LONGER IN SERVICE. Documented on September 16,2025.

Synonyms: HORDE

Resource Type: data or information resource, database

Keywords: human olfactory receptor, human olfactory receptors, olfactory receptor, or, or proteins

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: HORDE - Human Olfactory Receptor Data Exploratorium

Resource ID: SCR_007719

Alternate IDs: nif-0000-02979

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260811T043314+0000

Ratings and Alerts

No rating or validation information has been found for HORDE - Human Olfactory Receptor Data Exploratorium.

No alerts have been found for HORDE - Human Olfactory Receptor Data Exploratorium.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Ma Y, et al. (2026) Gene-culture coevolution shapes olfactory receptor gene diversity in Orang Asli populations. Cell reports, 117181.

Ryan L, et al. (2024) Sensomatic: an efficient pipeline to mine and predict sensory receptor genes in the era of reference-quality genomes. Bioinformatics (Oxford, England), 40(1).

Veilleux CC, et al. (2023) Human subsistence and signatures of selection on chemosensory genes. Communications biology, 6(1), 683.

Tan ZW, et al. (2023) Disrupted chromatin architecture in olfactory sensory neurons: looking for the link from COVID-19 infection to anosmia. Scientific reports, 13(1), 5906.

Razafindrazaka H, et al. (2021) African Gene Flow Reduces Beta-Ionone Anosmia/Hyposmia Prevalence in Admixed Malagasy Populations. Brain sciences, 11(11).

Olender T, et al. (2020) A unified nomenclature for vertebrate olfactory receptors. BMC evolutionary biology, 20(1), 42.

Barnes IHA, et al. (2020) Expert curation of the human and mouse olfactory receptor gene repertoires identifies conserved coding regions split across two exons. BMC genomics, 21(1), 196.

Haag F, et al. (2020) Copper-mediated thiol potentiation and mutagenesis-guided modeling suggest a highly conserved copper-binding motif in human OR2M3. Cellular and molecular life sciences : CMLS, 77(11), 2157.

Lu Q, et al. (2016) Penguins reduced olfactory receptor genes common to other waterbirds. Scientific reports, 6, 31671.

Yin W, et al. (2016) Evolutionary trajectories of snake genes and genomes revealed by comparative analyses of five-pacer viper. Nature communications, 7, 13107.

Olender T, et al. (2016) The human olfactory transcriptome. BMC genomics, 17(1), 619.

- Ahn M, et al. (2016) Unique Loss of the PYHIN Gene Family in Bats Amongst Mammals: Implications for Inflammasome Sensing. *Scientific reports*, 6, 21722.
- Chen J, et al. (2016) A uniform survey of allele-specific binding and expression over 1000-Genomes-Project individuals. *Nature communications*, 7, 11101.
- Mahmudi O, et al. (2015) Gene-pseudogene evolution: a probabilistic approach. *BMC genomics*, 16 Suppl 10(Suppl 10), S12.
- Kishida T, et al. (2015) Aquatic adaptation and the evolution of smell and taste in whales. *Zoological letters*, 1, 9.
- Young JM, et al. (2008) Extensive copy-number variation of the human olfactory receptor gene family. *American journal of human genetics*, 83(2), 228.
- Ji X, et al. (2008) DA and Xiao-two giant and composite LTR-retrotransposon-like elements identified in the human genome. *Genomics*, 91(3), 249.
- Olender T, et al. (2008) Update on the olfactory receptor (OR) gene superfamily. *Human genomics*, 3(1), 87.
- Menashe I, et al. (2007) Genetic elucidation of human hyperosmia to isovaleric acid. *PLoS biology*, 5(11), e284.
- Olender T, et al. (2004) The canine olfactory subgenome. *Genomics*, 83(3), 361.