

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on May 9, 2025

CASRDB- Calcium Sensing Receptor Database

RRID:SCR_007581

Type: Tool

Proper Citation

CASRDB- Calcium Sensing Receptor Database (RRID:SCR_007581)

Resource Information

URL: <http://www.casrdb.mcgill.ca/>

Proper Citation: CASRDB- Calcium Sensing Receptor Database (RRID:SCR_007581)

Description: CASRdb is a calcium-sensing receptor locus-specific database for mutations causing familial (benign) hypocalciuric hypercalcemia, neonatal severe hyperparathyroidism, and autosomal dominant hypocalcemia. The information can be searched by mutation, genotype-phenotype, clinical data, in vitro analyses, and authors of publications describing the mutations. CASRdb is regularly updated for new mutations and it also provides a mutation submission form to ensure up-to-date information. The home page of this database provides links to different web pages that are relevant to the CASR, as well as disease clinical pages, sequence of the CASR gene exons, and position of mutations in the CASR. The CASRdb will help researchers to better understand and analyze the mutations, and aid in structure-function analyses.

Synonyms: CASRDB

Resource Type: data or information resource, database

Keywords: familial hypocalciuric hypercalcemia, benign hypocalciuric hypercalcemia, calcium-sensing, hypocalciuric hypercalcemia, mutation causing hypocalciuric hypercalcemia

Funding:

Resource Name: CASRDB- Calcium Sensing Receptor Database

Resource ID: SCR_007581

Alternate IDs: nif-0000-02638

Record Creation Time: 20220129T080242+0000

Record Last Update: 20250507T060509+0000

Ratings and Alerts

No rating or validation information has been found for CASRDB- Calcium Sensing Receptor Database.

No alerts have been found for CASRDB- Calcium Sensing Receptor Database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Zung A, et al. (2023) Novel Calcium-Sensing Receptor (CASR) Mutation in a Family with Autosomal Dominant Hypocalcemia Type 1 (ADH1): Genetic Study over Three Generations and Clinical Characteristics. Hormone research in paediatrics, 96(5), 473.

Abdullayev T, et al. (2020) A rare cause of neonatal hypercalcemia: Neonatal severe primary hyperparathyroidism: A case report and review of the literature. International journal of surgery case reports, 66, 365.

Kwan B, et al. (2018) A novel CASR mutation (p.Glu757Lys) causing autosomal dominant hypocalcaemia type 1. Endocrinology, diabetes & metabolism case reports, 2018.

Rasmussen AQ, et al. (2018) Identification and Functional Characterization of a Novel Mutation in the Human Calcium-Sensing Receptor That Co-Segregates With Autosomal-Dominant Hypocalcemia. Frontiers in endocrinology, 9, 200.

Maruca K, et al. (2017) Autosomal dominant hypocalcemia due to a truncation in the C-tail of the calcium-sensing receptor. Molecular and cellular endocrinology, 439, 187.

Wu B, et al. (2017) Atypical skeletal manifestations of rickets in a familial hypocalciuric hypercalcemia patient. Bone research, 5, 17001.

Tennakoon S, et al. (2016) The calcium-sensing receptor and the hallmarks of cancer. Biochimica et biophysica acta, 1863(6 Pt B), 1398.

Conigrave AD, et al. (2016) The Calcium-Sensing Receptor and the Parathyroid: Past,

Present, Future. *Frontiers in physiology*, 7, 563.

Zhang C, et al. (2016) Molecular Basis of the Extracellular Ligands Mediated Signaling by the Calcium Sensing Receptor. *Frontiers in physiology*, 7, 441.

Roszko KL, et al. (2016) Autosomal Dominant Hypocalcemia (Hypoparathyroidism) Types 1 and 2. *Frontiers in physiology*, 7, 458.

Lin K, et al. (2015) Framework for interpretation of trypsin-antitrypsin imbalance and genetic heterogeneity in pancreatitis. *Saudi journal of gastroenterology : official journal of the Saudi Gastroenterology Association*, 21(4), 198.

Leach K, et al. (2014) Engendering biased signalling from the calcium-sensing receptor for the pharmacotherapy of diverse disorders. *British journal of pharmacology*, 171(5), 1142.

Mastromatteo E, et al. (2014) A novel mutation in calcium-sensing receptor gene associated to hypercalcemia and hypercalciuria. *BMC endocrine disorders*, 14, 81.

Ranieri M, et al. (2013) Excessive signal transduction of gain-of-function variants of the calcium-sensing receptor (CaSR) are associated with increased ER to cytosol calcium gradient. *PloS one*, 8(11), e79113.

Ward DT, et al. (2012) New concepts in calcium-sensing receptor pharmacology and signalling. *British journal of pharmacology*, 165(1), 35.

Sabrautski S, et al. (2012) New mouse models for metabolic bone diseases generated by genome-wide ENU mutagenesis. *Mammalian genome : official journal of the International Mammalian Genome Society*, 23(7-8), 416.

Smajilovic S, et al. (2011) The calcium-sensing receptor and calcimimetics in blood pressure modulation. *British journal of pharmacology*, 164(3), 884.

Kemp EH, et al. (2010) Mapping of human autoantibody binding sites on the calcium-sensing receptor. *Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research*, 25(1), 132.

Chang W, et al. (2010) Assessing constitutive activity of extracellular calcium-sensing receptors in vitro and in bone. *Methods in enzymology*, 484, 253.

Chattopadhyay N, et al. (2006) Role of calcium-sensing receptor in mineral ion metabolism and inherited disorders of calcium-sensing. *Molecular genetics and metabolism*, 89(3), 189.