

Resource Summary Report

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GOA

RRID:SCR_007691

Type: Tool

Proper Citation

GOA (RRID:SCR_007691)

Resource Information

URL: <http://www.ebi.ac.uk/GOA>

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Description: An annotation program which aims to provide high-quality Gene Ontology (GO) annotations to proteins in the UniProt Knowledgebase (UniProtKB) and International Protein Index (IPI). It is a central dataset for other major multi-species databases, such as Ensembl and NCBI. Because of the multi-species nature of the UniProtKB, UniProtKB-GOA assists in the curation of 200,000 species. This involves electronic annotation and the integration of high-quality manual GO annotation from all GO Consortium model organism groups and specialist groups. Gene Association Files can be accessed from the Downloads section of the website.

Abbreviations: GOA, GOA REF

Synonyms: UniProtKB-GOA, Gene Ontology Annotation (UniProtKB-GOA) Database, GOA - Gene Ontology Annotation, Gene Ontology Annotation, GO Annotation at EBI

Resource Type: data or information resource, database

Keywords: gene ontology, chicken proteome, cow proteome, human proteome, xref, gene, gene association, gold standard

Availability: Public, Available to the research community, All UniProtKB-GOA Gene Association Files are released approximately every four weeks

Resource Name: GOA

Resource ID: SCR_007691

Alternate IDs: nif-0000-02916

License URLs: <http://www.ebi.ac.uk/about/terms-of-use>

Record Creation Time: 20220129T080243+0000

Record Last Update: 20260905T133143+0000

Ratings and Alerts

No rating or validation information has been found for GOA.

No alerts have been found for GOA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 678 mentions in open access literature.

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

Tang H, et al. (2026) Cerebrospinal Fluid Proteome Reveals Dysregulation of Lysosomal and Axonal Proteins in Neurosyphilis. *Journal of proteome research*, 25(2), 713.

Bashtanova U, et al. (2026) Preserving integrity: innovative in vitro methods for extracellular matrix decellularization and collagen purification. *Journal of biological engineering*, 20(1), 35.

Yao Y, et al. (2026) Eriocheir sinensis PI3K-mediated 14-3-3? phosphorylation at a conserved tyrosine residue enhances ROS production to defend against Spiroplasma eriocheiris infection. *Cell communication and signaling : CCS*, 24(1).

Tan YL, et al. (2026) Endogenous cathelicidin protects against Toxoplasma gondii-associated liver damage. *Infection and immunity*, 94(5), e0070825.

Xie B, et al. (2026) Integrated Proteomic and Functional Analyses Reveal the Roles of Organelle-Specific Small Heat Shock Proteins (sHSPs) in Tomato Thermotolerance. *Plants (Basel, Switzerland)*, 15(11).

Ding D, et al. (2026) Adipose tissue protein profiling: modulation by vitamin D receptor. *Frontiers in nutrition*, 13, 1715659.

Liu S, et al. (2026) Ferroptosis-Driven Neuronal Damage Exacerbation in Diabetic Stroke: Implications of SLC7A11 Inhibition. *CNS neuroscience & therapeutics*, 32(3), e70830.

Xie X, et al. (2026) ANGPTL8 regulates glucose metabolism in gestational diabetes mellitus mice, and proteomic analysis reveals the PI3K/Akt pathway plays its role in insulin-resistance HepG2 cells. *BMC pregnancy and childbirth*, 26(1).

Wang P, et al. (2026) Integrated proteomic analysis reveals adaptation mechanisms of paper mulberry seedling leaves to nitrogen stress. *BMC plant biology*, 26(1), 223.

Ma Y, et al. (2026) 3D-printed triboelectric scaffolds for fabricating BMSC-derived cartilage to repair bone defects and promote endochondral ossification. *Bioactive materials*, 58, 685.

Xu Y, et al. (2026) Magnetic-Assisted Aptamer Selection and Isolation of Migrasomes for Application in Lung Adenocarcinoma Proteomic Analysis. *Journal of extracellular vesicles*, 15(4), e70283.

Liu Q, et al. (2025) Proteome and Metabolome Analyses of Albino Bracts in *Davidia involucrata*. *Plants (Basel, Switzerland)*, 14(4).

Wang Z, et al. (2025) *Brucella suis* S2 strain inhibits IRE1/caspase-12/caspase-3 pathway-mediated apoptosis of microglia HMC3 by affecting the ubiquitination of CALR. *mSphere*, 10(3), e0094124.

Xiong T, et al. (2025) BDH1 acetylation at K116 modulates milk fat production in dairy goats. *Research square*.

Wang H, et al. (2025) γ -Giardin as an Immunomagnetic Enrichment Target for Multi-Host Detection of *Giardia duodenalis* Cysts. *Pathogens (Basel, Switzerland)*, 14(9).

Mishra S, et al. (2025) Magnesium modulates the stress responses of oral streptococci to environmental and antibiotic challenges by altering cell envelope and nutrient transport pathways. *Frontiers in microbiology*, 16, 1669039.

Alami NH, et al. (2025) Functional and genomic characterization of polyethylene degrading yeast *Meyerozyma carpophila* M6.0.2 isolated from marine plastic debris in East Java Indonesia. *Scientific reports*, 15(1), 40437.

Yu Y, et al. (2025) Global analysis of protein lysine lactylation profiles in the marine bacterium *Photobacterium damsela* subsp. *damsela*. *Frontiers in microbiology*, 16, 1539893.

Dong C, et al. (2025) CHAC1 Mediates Endoplasmic Reticulum Stress-Dependent Ferroptosis in Calcium Oxalate Kidney Stone Formation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(10), e2403992.

Zhu S, et al. (2025) Ultrastructural and Proteomic Analyses Revealed the Mechanism by Which Foliar Spraying of Se Nanoparticles Alleviated the Toxicity of Microplastics in *Pistia stratiotes* L. *Toxics*, 13(11).