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| |  | | --- | | The mission of the PANTHER knowledgebase is to support biomedical and other research by providing **comprehensive information about the evolution of protein-coding gene families**, particularly protein phylogeny, function and genetic variation impacting that function. [Learn more](http://pantherdb.org/about.jsp) | | | | | | | | | |
| **PANTHER selected as a** [**Global Core Biodata Resource**](https://globalbiodata.org/scientific-activities/global-core-biodata-resources)**.** [**Click**](http://pantherdb.org/news/news20221215.jsp) **for more details.** |  |  |  |  |  |  |  |
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|  | Current Release: [**PANTHER 17.0**](http://pantherdb.org/news/news20220223.jsp)  |  [**15,619**](http://pantherdb.org/panther/index.jsp) family phylogenetic trees  |  [**143**](http://pantherdb.org/panther/summaryStats.jsp) species  |  [News](http://pantherdb.org/news/news20221215.jsp)   [Whole genome function views](http://pantherdb.org/servlet/GenomeFunctionChartServlet?chartType=1&listType=1&annotType=5&species=Homo%20sapiens) |

Analysis Summary: Please report in publication [Tips](javascript:;)

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| |  | | --- | | **Analysis Type:** PANTHER Overrepresentation Test (Released 20221013) | |  | |  | | **Annotation Version and Release Date:** GO Ontology database DOI: 10.5281/zenodo.6799722 Released 2022-07-01 | |  | | |  |  |  |  | | --- | --- | --- | --- | | **Analyzed List:** | |  | | --- | | upload\_1 (Homo sapiens) | | [Change](http://pantherdb.org/tools/uploadFiles.jsp) | |  | | | | **Reference List:** | |  | | --- | | Homo sapiens (all genes in database) | | [Change](javascript:uploadRefFile();) | | | |  |  | | **Annotation Data Set:** | | |

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| |  |  | | --- | --- | | [Tips](javascript:;) | | |  |  | | **Test Type:** Fisher's Exact   Binomial | | | |  |  |  | | **Correction:** Calculate False Discovery Rate   Use the Bonferroni correction for multiple testing  [Tips](javascript:;)   No correction | | | |

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|  | Reference list | upload\_1 |
| Uniquely Mapped IDS: | [20589](http://pantherdb.org/tools/gxIdsList.do?reflist=1) out of 20589 | [252](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) out of 453 |
| Unmapped IDs: | [0](http://pantherdb.org/tools/unmappedBinom.jsp?refList=1) | [310](http://pantherdb.org/tools/unmappedBinom.jsp?listName=upload_1) |
| Multiple mapping information: | 0 | [204](http://pantherdb.org/tools/multipleMap.jsp?&listName=upload_1) |

Export  [Table](http://pantherdb.org/tools/compareToRefListTxt.jsp?sortOrder=-1&sortList=upload_1&sortField=hierarchy)  [XML with user input ids](http://pantherdb.org/tools/exportCompareToRefList.jsp?sortOrder=-1&sortList=upload_1&sortField=hierarchy&format=xml)  [JSON with user input ids](http://pantherdb.org/tools/exportCompareToRefList.jsp?sortOrder=-1&sortList=upload_1&sortField=hierarchy&format=json)   
  
Displaying only results for FDR P < 0.05, [click here to display all results](http://pantherdb.org/tools/compareToRefList.jsp?&showAll=true)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | [Homo sapiens](http://pantherdb.org/tools/gxIdsList.do?reflist=1) (REF) | [upload\_1](http://pantherdb.org/tools/gxIdsList.do?list=upload_1&organism=Homo%20sapiens) ( [Hierarchy](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=upload_1)  NEW! [Tips](javascript:;)) | | | | | | | [GO biological process complete](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=categories) | [#](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=Homo%20sapiens) | [#](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=num) | [expected](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=exp) | [Fold Enrichment](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=foldEnrich) | [+/-](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=upload_1&sortField=rep) | [raw P value](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=1&sortList=upload_1&sortField=pval) | [FDR](http://pantherdb.org/tools/compareToRefList.jsp?sortOrder=2&sortList=upload_1&sortField=fdr) | | [telomerase holoenzyme complex assembly](http://amigo.geneontology.org/amigo/term/GO:1905323) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905323&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905323&list=upload_1&organism=Homo%20sapiens) | .09 | 34.09 | + | 3.25E-04 | 1.03E-02 | | [cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044085) | [2633](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&reflist=1) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044085&list=upload_1&organism=Homo%20sapiens) | 57.93 | 1.43 | + | 8.46E-04 | 2.26E-02 | | [cellular component organization or biogenesis](http://amigo.geneontology.org/amigo/term/GO:0071840) | [5727](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&reflist=1) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071840&list=upload_1&organism=Homo%20sapiens) | 126.01 | 1.53 | + | 2.76E-11 | 3.23E-09 | | [cellular process](http://amigo.geneontology.org/amigo/term/GO:0009987) | [15044](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&reflist=1) | [406](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009987&list=upload_1&organism=Homo%20sapiens) | 331.00 | 1.23 | + | 9.65E-18 | 2.75E-15 | | [cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0016043) | [5523](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&reflist=1) | [191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016043&list=upload_1&organism=Homo%20sapiens) | 121.52 | 1.57 | + | 3.52E-12 | 4.45E-10 | | [cellular component assembly](http://amigo.geneontology.org/amigo/term/GO:0022607) | [2394](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022607&list=upload_1&organism=Homo%20sapiens) | 52.67 | 1.54 | + | 1.16E-04 | 4.40E-03 | | [response to hydrostatic pressure](http://amigo.geneontology.org/amigo/term/GO:0051599) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051599&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051599&list=upload_1&organism=Homo%20sapiens) | .11 | 27.27 | + | 5.12E-04 | 1.50E-02 | | [response to oxygen-containing compound](http://amigo.geneontology.org/amigo/term/GO:1901700) | [1551](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901700&list=upload_1&organism=Homo%20sapiens) | 34.13 | 2.08 | + | 1.05E-08 | 9.41E-07 | | [response to chemical](http://amigo.geneontology.org/amigo/term/GO:0042221) | [4060](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&reflist=1) | [166](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042221&list=upload_1&organism=Homo%20sapiens) | 89.33 | 1.86 | + | 1.43E-16 | 3.08E-14 | | [response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0050896) | [8209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&reflist=1) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050896&list=upload_1&organism=Homo%20sapiens) | 180.61 | 1.52 | + | 1.49E-18 | 4.96E-16 | | [response to inorganic substance](http://amigo.geneontology.org/amigo/term/GO:0010035) | [533](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010035&list=upload_1&organism=Homo%20sapiens) | 11.73 | 2.13 | + | 5.54E-04 | 1.59E-02 | | [response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009628) | [1121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009628&list=upload_1&organism=Homo%20sapiens) | 24.66 | 2.15 | + | 3.86E-07 | 2.78E-05 | | [response to stress](http://amigo.geneontology.org/amigo/term/GO:0006950) | [3466](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&reflist=1) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006950&list=upload_1&organism=Homo%20sapiens) | 76.26 | 1.67 | + | 4.52E-09 | 4.19E-07 | | [trachea formation](http://amigo.geneontology.org/amigo/term/GO:0060440) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060440&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060440&list=upload_1&organism=Homo%20sapiens) | .15 | 25.97 | + | 6.20E-05 | 2.68E-03 | | [animal organ morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009887) | [1003](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009887&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009887&list=upload_1&organism=Homo%20sapiens) | 22.07 | 2.22 | + | 5.05E-07 | 3.54E-05 | | [anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0009653) | [2237](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&reflist=1) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009653&list=upload_1&organism=Homo%20sapiens) | 49.22 | 2.05 | + | 6.69E-12 | 8.32E-10 | | [anatomical structure development](http://amigo.geneontology.org/amigo/term/GO:0048856) | [5144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&reflist=1) | [184](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048856&list=upload_1&organism=Homo%20sapiens) | 113.18 | 1.63 | + | 6.82E-13 | 9.47E-11 | | [developmental process](http://amigo.geneontology.org/amigo/term/GO:0032502) | [5677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&reflist=1) | [196](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032502&list=upload_1&organism=Homo%20sapiens) | 124.91 | 1.57 | + | 1.66E-12 | 2.21E-10 | | [animal organ development](http://amigo.geneontology.org/amigo/term/GO:0048513) | [3254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&reflist=1) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048513&list=upload_1&organism=Homo%20sapiens) | 71.59 | 1.70 | + | 2.67E-09 | 2.52E-07 | | [anatomical structure formation involved in morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048646) | [941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048646&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048646&list=upload_1&organism=Homo%20sapiens) | 20.70 | 1.88 | + | 2.55E-04 | 8.45E-03 | | [trachea morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060439) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060439&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060439&list=upload_1&organism=Homo%20sapiens) | .24 | 16.53 | + | 2.40E-04 | 8.10E-03 | | [trachea development](http://amigo.geneontology.org/amigo/term/GO:0060438) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060438&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060438&list=upload_1&organism=Homo%20sapiens) | .42 | 9.57 | + | 1.36E-03 | 3.27E-02 | | [respiratory system development](http://amigo.geneontology.org/amigo/term/GO:0060541) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060541&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060541&list=upload_1&organism=Homo%20sapiens) | 4.53 | 2.87 | + | 9.72E-04 | 2.50E-02 | | [system development](http://amigo.geneontology.org/amigo/term/GO:0048731) | [3838](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&reflist=1) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048731&list=upload_1&organism=Homo%20sapiens) | 84.44 | 1.82 | + | 2.29E-14 | 3.70E-12 | | [multicellular organism development](http://amigo.geneontology.org/amigo/term/GO:0007275) | [4228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&reflist=1) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007275&list=upload_1&organism=Homo%20sapiens) | 93.02 | 1.80 | + | 2.95E-15 | 5.15E-13 | | [multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0032501) | [6581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&reflist=1) | [211](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032501&list=upload_1&organism=Homo%20sapiens) | 144.80 | 1.46 | + | 1.60E-10 | 1.75E-08 | | [common-partner SMAD protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0007182) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007182&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007182&list=upload_1&organism=Homo%20sapiens) | .15 | 19.48 | + | 1.06E-03 | 2.67E-02 | | [protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0006468) | [719](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006468&list=upload_1&organism=Homo%20sapiens) | 15.82 | 5.18 | + | 8.68E-33 | 1.36E-28 | | [protein modification process](http://amigo.geneontology.org/amigo/term/GO:0036211) | [2658](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&reflist=1) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0036211&list=upload_1&organism=Homo%20sapiens) | 58.48 | 2.60 | + | 1.03E-28 | 3.24E-25 | | [macromolecule modification](http://amigo.geneontology.org/amigo/term/GO:0043412) | [2883](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&reflist=1) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043412&list=upload_1&organism=Homo%20sapiens) | 63.43 | 2.43 | + | 3.96E-26 | 5.65E-23 | | [macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0043170) | [5941](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&reflist=1) | [217](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043170&list=upload_1&organism=Homo%20sapiens) | 130.71 | 1.66 | + | 3.67E-17 | 9.12E-15 | | [organic substance metabolic process](http://amigo.geneontology.org/amigo/term/GO:0071704) | [7697](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&reflist=1) | [248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071704&list=upload_1&organism=Homo%20sapiens) | 169.35 | 1.46 | + | 1.66E-13 | 2.51E-11 | | [metabolic process](http://amigo.geneontology.org/amigo/term/GO:0008152) | [8131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&reflist=1) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008152&list=upload_1&organism=Homo%20sapiens) | 178.90 | 1.42 | + | 2.58E-12 | 3.37E-10 | | [protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019538) | [3920](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&reflist=1) | [179](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019538&list=upload_1&organism=Homo%20sapiens) | 86.25 | 2.08 | + | 3.21E-23 | 2.40E-20 | | [organonitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:1901564) | [5013](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&reflist=1) | [205](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901564&list=upload_1&organism=Homo%20sapiens) | 110.30 | 1.86 | + | 1.29E-21 | 7.50E-19 | | [nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006807) | [6710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&reflist=1) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006807&list=upload_1&organism=Homo%20sapiens) | 147.63 | 1.56 | + | 3.44E-15 | 5.86E-13 | | [primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044238) | [7228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&reflist=1) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044238&list=upload_1&organism=Homo%20sapiens) | 159.03 | 1.45 | + | 1.95E-11 | 2.31E-09 | | [phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0016310) | [918](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&reflist=1) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016310&list=upload_1&organism=Homo%20sapiens) | 20.20 | 4.36 | + | 4.33E-30 | 1.70E-26 | | [phosphate-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006796) | [1855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&reflist=1) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006796&list=upload_1&organism=Homo%20sapiens) | 40.81 | 3.16 | + | 1.32E-31 | 1.04E-27 | | [phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006793) | [1881](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&reflist=1) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006793&list=upload_1&organism=Homo%20sapiens) | 41.39 | 3.12 | + | 4.83E-31 | 2.52E-27 | | [cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0044237) | [6606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&reflist=1) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044237&list=upload_1&organism=Homo%20sapiens) | 145.35 | 1.51 | + | 7.33E-13 | 1.01E-10 | | [enzyme-linked receptor protein signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007167) | [640](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&reflist=1) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007167&list=upload_1&organism=Homo%20sapiens) | 14.08 | 4.33 | + | 1.00E-20 | 4.92E-18 | | [cell surface receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007166) | [2174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&reflist=1) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007166&list=upload_1&organism=Homo%20sapiens) | 47.83 | 2.28 | + | 5.91E-16 | 1.17E-13 | | [signal transduction](http://amigo.geneontology.org/amigo/term/GO:0007165) | [4887](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&reflist=1) | [205](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007165&list=upload_1&organism=Homo%20sapiens) | 107.52 | 1.91 | + | 5.34E-23 | 3.81E-20 | | [regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0050794) | [11187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&reflist=1) | [342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050794&list=upload_1&organism=Homo%20sapiens) | 246.14 | 1.39 | + | 3.64E-20 | 1.59E-17 | | [regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0050789) | [11806](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&reflist=1) | [347](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050789&list=upload_1&organism=Homo%20sapiens) | 259.76 | 1.34 | + | 2.47E-17 | 6.56E-15 | | [biological regulation](http://amigo.geneontology.org/amigo/term/GO:0065007) | [12544](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&reflist=1) | [361](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065007&list=upload_1&organism=Homo%20sapiens) | 275.99 | 1.31 | + | 2.99E-17 | 7.69E-15 | | [signaling](http://amigo.geneontology.org/amigo/term/GO:0023052) | [5231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&reflist=1) | [215](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023052&list=upload_1&organism=Homo%20sapiens) | 115.09 | 1.87 | + | 1.97E-23 | 1.54E-20 | | [cell communication](http://amigo.geneontology.org/amigo/term/GO:0007154) | [5342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&reflist=1) | [217](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007154&list=upload_1&organism=Homo%20sapiens) | 117.53 | 1.85 | + | 6.39E-23 | 4.18E-20 | | [cellular response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0051716) | [6569](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&reflist=1) | [240](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051716&list=upload_1&organism=Homo%20sapiens) | 144.53 | 1.66 | + | 6.55E-20 | 2.78E-17 | | [intermediate filament bundle assembly](http://amigo.geneontology.org/amigo/term/GO:0045110) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045110&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045110&list=upload_1&organism=Homo%20sapiens) | .15 | 19.48 | + | 1.06E-03 | 2.67E-02 | | [calcium-independent cell-cell adhesion via plasma membrane cell-adhesion molecules](http://amigo.geneontology.org/amigo/term/GO:0016338) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016338&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016338&list=upload_1&organism=Homo%20sapiens) | .46 | 19.48 | + | 8.79E-09 | 7.97E-07 | | [cell-cell adhesion via plasma-membrane adhesion molecules](http://amigo.geneontology.org/amigo/term/GO:0098742) | [267](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098742&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098742&list=upload_1&organism=Homo%20sapiens) | 5.87 | 2.89 | + | 1.55E-04 | 5.58E-03 | | [cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0098609) | [543](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098609&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098609&list=upload_1&organism=Homo%20sapiens) | 11.95 | 2.59 | + | 2.95E-06 | 1.76E-04 | | [cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0007155) | [969](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007155&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007155&list=upload_1&organism=Homo%20sapiens) | 21.32 | 2.58 | + | 5.34E-10 | 5.36E-08 | | [positive regulation of bicellular tight junction assembly](http://amigo.geneontology.org/amigo/term/GO:1903348) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903348&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903348&list=upload_1&organism=Homo%20sapiens) | .15 | 19.48 | + | 1.06E-03 | 2.66E-02 | | [regulation of bicellular tight junction assembly](http://amigo.geneontology.org/amigo/term/GO:2000810) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000810&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000810&list=upload_1&organism=Homo%20sapiens) | .44 | 9.09 | + | 1.60E-03 | 3.76E-02 | | [regulation of cell junction assembly](http://amigo.geneontology.org/amigo/term/GO:1901888) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901888&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901888&list=upload_1&organism=Homo%20sapiens) | 4.42 | 3.84 | + | 5.43E-06 | 3.06E-04 | | [regulation of cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044087) | [951](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044087&list=upload_1&organism=Homo%20sapiens) | 20.92 | 2.15 | + | 2.88E-06 | 1.73E-04 | | [regulation of cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0051128) | [2364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&reflist=1) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051128&list=upload_1&organism=Homo%20sapiens) | 52.01 | 2.38 | + | 7.00E-20 | 2.89E-17 | | [positive regulation of cell junction assembly](http://amigo.geneontology.org/amigo/term/GO:1901890) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901890&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901890&list=upload_1&organism=Homo%20sapiens) | 2.31 | 4.76 | + | 4.21E-05 | 1.90E-03 | | [positive regulation of cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0051130) | [1054](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051130&list=upload_1&organism=Homo%20sapiens) | 23.19 | 2.33 | + | 2.40E-08 | 2.02E-06 | | [positive regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0048522) | [5670](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&reflist=1) | [216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048522&list=upload_1&organism=Homo%20sapiens) | 124.75 | 1.73 | + | 2.55E-19 | 9.30E-17 | | [positive regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0048518) | [6304](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&reflist=1) | [235](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048518&list=upload_1&organism=Homo%20sapiens) | 138.70 | 1.69 | + | 1.57E-20 | 7.24E-18 | | [positive regulation of cellular component biogenesis](http://amigo.geneontology.org/amigo/term/GO:0044089) | [501](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044089&list=upload_1&organism=Homo%20sapiens) | 11.02 | 2.36 | + | 9.35E-05 | 3.71E-03 | | [ephrin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0048013) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048013&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048013&list=upload_1&organism=Homo%20sapiens) | 1.10 | 17.27 | + | 2.51E-16 | 5.25E-14 | | [transmembrane receptor protein tyrosine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007169) | [424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&reflist=1) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007169&list=upload_1&organism=Homo%20sapiens) | 9.33 | 5.57 | + | 3.81E-22 | 2.30E-19 | | [chaperone-mediated autophagy](http://amigo.geneontology.org/amigo/term/GO:0061684) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061684&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061684&list=upload_1&organism=Homo%20sapiens) | .18 | 17.04 | + | 1.44E-03 | 3.43E-02 | | [protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0030163) | [756](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030163&list=upload_1&organism=Homo%20sapiens) | 16.63 | 2.22 | + | 1.38E-05 | 7.17E-04 | | [organonitrogen compound catabolic process](http://amigo.geneontology.org/amigo/term/GO:1901565) | [1112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901565&list=upload_1&organism=Homo%20sapiens) | 24.47 | 1.88 | + | 6.22E-05 | 2.67E-03 | | [macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009057) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009057&list=upload_1&organism=Homo%20sapiens) | 21.76 | 2.11 | + | 4.29E-06 | 2.48E-04 | | [positive regulation of aspartic-type endopeptidase activity involved in amyloid precursor protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1902961) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902961&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902961&list=upload_1&organism=Homo%20sapiens) | .18 | 17.04 | + | 1.44E-03 | 3.42E-02 | | [positive regulation of aspartic-type peptidase activity](http://amigo.geneontology.org/amigo/term/GO:1905247) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905247&reflist=1) | [3](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905247&list=upload_1&organism=Homo%20sapiens) | .20 | 15.15 | + | 1.89E-03 | 4.29E-02 | | [positive regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010952) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010952&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010952&list=upload_1&organism=Homo%20sapiens) | 4.25 | 4.00 | + | 3.28E-06 | 1.96E-04 | | [positive regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0045862) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045862&list=upload_1&organism=Homo%20sapiens) | 8.21 | 3.29 | + | 1.89E-07 | 1.43E-05 | | [positive regulation of protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051247) | [1515](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051247&list=upload_1&organism=Homo%20sapiens) | 33.33 | 2.79 | + | 7.99E-19 | 2.73E-16 | | [positive regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051173) | [3174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&reflist=1) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051173&list=upload_1&organism=Homo%20sapiens) | 69.83 | 1.86 | + | 1.38E-12 | 1.85E-10 | | [positive regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009893) | [3858](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&reflist=1) | [162](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009893&list=upload_1&organism=Homo%20sapiens) | 84.88 | 1.91 | + | 3.53E-17 | 8.92E-15 | | [regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019222) | [6754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&reflist=1) | [233](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019222&list=upload_1&organism=Homo%20sapiens) | 148.60 | 1.57 | + | 7.24E-16 | 1.40E-13 | | [regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051171) | [5709](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&reflist=1) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051171&list=upload_1&organism=Homo%20sapiens) | 125.61 | 1.54 | + | 1.21E-11 | 1.47E-09 | | [positive regulation of macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010604) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&reflist=1) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010604&list=upload_1&organism=Homo%20sapiens) | 77.93 | 1.85 | + | 7.43E-14 | 1.15E-11 | | [regulation of macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0060255) | [6214](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&reflist=1) | [211](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060255&list=upload_1&organism=Homo%20sapiens) | 136.72 | 1.54 | + | 4.58E-13 | 6.59E-11 | | [regulation of protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051246) | [2587](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&reflist=1) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051246&list=upload_1&organism=Homo%20sapiens) | 56.92 | 2.28 | + | 2.45E-19 | 9.37E-17 | | [regulation of primary metabolic process](http://amigo.geneontology.org/amigo/term/GO:0080090) | [5872](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&reflist=1) | [198](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080090&list=upload_1&organism=Homo%20sapiens) | 129.20 | 1.53 | + | 1.25E-11 | 1.51E-09 | | [regulation of proteolysis](http://amigo.geneontology.org/amigo/term/GO:0030162) | [743](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030162&list=upload_1&organism=Homo%20sapiens) | 16.35 | 2.81 | + | 9.83E-10 | 9.76E-08 | | [regulation of peptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052547) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052547&list=upload_1&organism=Homo%20sapiens) | 9.94 | 2.71 | + | 5.97E-06 | 3.36E-04 | | [regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051336) | [1020](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&reflist=1) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051336&list=upload_1&organism=Homo%20sapiens) | 22.44 | 3.03 | + | 1.95E-15 | 3.52E-13 | | [regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0050790) | [2373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&reflist=1) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050790&list=upload_1&organism=Homo%20sapiens) | 52.21 | 2.62 | + | 5.22E-26 | 6.82E-23 | | [regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0065009) | [3094](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&reflist=1) | [157](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065009&list=upload_1&organism=Homo%20sapiens) | 68.07 | 2.31 | + | 1.81E-24 | 1.58E-21 | | [positive regulation of hydrolase activity](http://amigo.geneontology.org/amigo/term/GO:0051345) | [589](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051345&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051345&list=upload_1&organism=Homo%20sapiens) | 12.96 | 3.63 | + | 1.78E-13 | 2.65E-11 | | [positive regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0043085) | [1194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&reflist=1) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043085&list=upload_1&organism=Homo%20sapiens) | 26.27 | 3.65 | + | 2.11E-27 | 4.13E-24 | | [positive regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0044093) | [1590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&reflist=1) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044093&list=upload_1&organism=Homo%20sapiens) | 34.98 | 3.14 | + | 2.10E-26 | 3.29E-23 | | [regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0052548) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0052548&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.69 | + | 1.51E-05 | 7.77E-04 | | [positive regulation of endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:0010950) | [174](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010950&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010950&list=upload_1&organism=Homo%20sapiens) | 3.83 | 3.92 | + | 1.56E-05 | 8.03E-04 | | [epithelial cell differentiation involved in prostate gland development](http://amigo.geneontology.org/amigo/term/GO:0060742) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060742&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060742&list=upload_1&organism=Homo%20sapiens) | .24 | 16.53 | + | 2.40E-04 | 8.08E-03 | | [epithelial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030855) | [620](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030855&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030855&list=upload_1&organism=Homo%20sapiens) | 13.64 | 2.20 | + | 9.12E-05 | 3.64E-03 | | [epithelium development](http://amigo.geneontology.org/amigo/term/GO:0060429) | [1072](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060429&list=upload_1&organism=Homo%20sapiens) | 23.59 | 1.95 | + | 2.76E-05 | 1.32E-03 | | [tissue development](http://amigo.geneontology.org/amigo/term/GO:0009888) | [1726](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009888&list=upload_1&organism=Homo%20sapiens) | 37.98 | 1.84 | + | 1.00E-06 | 6.59E-05 | | [cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030154) | [3519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&reflist=1) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030154&list=upload_1&organism=Homo%20sapiens) | 77.43 | 1.82 | + | 6.55E-13 | 9.17E-11 | | [cellular developmental process](http://amigo.geneontology.org/amigo/term/GO:0048869) | [3542](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&reflist=1) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048869&list=upload_1&organism=Homo%20sapiens) | 77.93 | 1.81 | + | 8.11E-13 | 1.10E-10 | | [prostate gland development](http://amigo.geneontology.org/amigo/term/GO:0030850) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030850&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030850&list=upload_1&organism=Homo%20sapiens) | 1.08 | 5.57 | + | 1.14E-03 | 2.83E-02 | | [gland development](http://amigo.geneontology.org/amigo/term/GO:0048732) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048732&list=upload_1&organism=Homo%20sapiens) | 9.28 | 3.23 | + | 5.68E-08 | 4.59E-06 | | [urogenital system development](http://amigo.geneontology.org/amigo/term/GO:0001655) | [350](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001655&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001655&list=upload_1&organism=Homo%20sapiens) | 7.70 | 2.34 | + | 1.43E-03 | 3.41E-02 | | [cellular response to follicle-stimulating hormone stimulus](http://amigo.geneontology.org/amigo/term/GO:0071372) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071372&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071372&list=upload_1&organism=Homo%20sapiens) | .26 | 15.15 | + | 3.14E-04 | 1.01E-02 | | [response to follicle-stimulating hormone](http://amigo.geneontology.org/amigo/term/GO:0032354) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032354&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032354&list=upload_1&organism=Homo%20sapiens) | .40 | 10.10 | + | 1.14E-03 | 2.84E-02 | | [response to hormone](http://amigo.geneontology.org/amigo/term/GO:0009725) | [767](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009725&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009725&list=upload_1&organism=Homo%20sapiens) | 16.88 | 1.96 | + | 4.10E-04 | 1.24E-02 | | [response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0010033) | [2704](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&reflist=1) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010033&list=upload_1&organism=Homo%20sapiens) | 59.49 | 2.12 | + | 4.20E-16 | 8.56E-14 | | [response to endogenous stimulus](http://amigo.geneontology.org/amigo/term/GO:0009719) | [1371](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009719&list=upload_1&organism=Homo%20sapiens) | 30.16 | 2.19 | + | 4.64E-09 | 4.28E-07 | | [cellular response to gonadotropin stimulus](http://amigo.geneontology.org/amigo/term/GO:0071371) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071371&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071371&list=upload_1&organism=Homo%20sapiens) | .44 | 9.09 | + | 1.60E-03 | 3.75E-02 | | [cellular response to hormone stimulus](http://amigo.geneontology.org/amigo/term/GO:0032870) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032870&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032870&list=upload_1&organism=Homo%20sapiens) | 10.76 | 2.51 | + | 3.41E-05 | 1.59E-03 | | [cellular response to organic substance](http://amigo.geneontology.org/amigo/term/GO:0071310) | [2026](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&reflist=1) | [99](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071310&list=upload_1&organism=Homo%20sapiens) | 44.58 | 2.22 | + | 9.86E-14 | 1.52E-11 | | [cellular response to chemical stimulus](http://amigo.geneontology.org/amigo/term/GO:0070887) | [2616](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&reflist=1) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070887&list=upload_1&organism=Homo%20sapiens) | 57.56 | 2.10 | + | 3.34E-15 | 5.75E-13 | | [cellular response to endogenous stimulus](http://amigo.geneontology.org/amigo/term/GO:0071495) | [1107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071495&list=upload_1&organism=Homo%20sapiens) | 24.36 | 2.46 | + | 4.64E-10 | 4.72E-08 | | [anoikis](http://amigo.geneontology.org/amigo/term/GO:0043276) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043276&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043276&list=upload_1&organism=Homo%20sapiens) | .26 | 15.15 | + | 3.14E-04 | 1.00E-02 | | [apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0006915) | [1033](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006915&list=upload_1&organism=Homo%20sapiens) | 22.73 | 2.60 | + | 9.54E-11 | 1.07E-08 | | [programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0012501) | [1074](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0012501&list=upload_1&organism=Homo%20sapiens) | 23.63 | 2.54 | + | 1.19E-10 | 1.32E-08 | | [cell death](http://amigo.geneontology.org/amigo/term/GO:0008219) | [1108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008219&list=upload_1&organism=Homo%20sapiens) | 24.38 | 2.46 | + | 4.72E-10 | 4.78E-08 | | [positive regulation of mitochondrial membrane potential](http://amigo.geneontology.org/amigo/term/GO:0010918) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010918&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010918&list=upload_1&organism=Homo%20sapiens) | .26 | 15.15 | + | 3.14E-04 | 1.00E-02 | | [regulation of mitochondrial membrane potential](http://amigo.geneontology.org/amigo/term/GO:0051881) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051881&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051881&list=upload_1&organism=Homo%20sapiens) | 1.56 | 4.48 | + | 1.45E-03 | 3.44E-02 | | [regulation of membrane potential](http://amigo.geneontology.org/amigo/term/GO:0042391) | [430](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042391&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042391&list=upload_1&organism=Homo%20sapiens) | 9.46 | 2.22 | + | 1.39E-03 | 3.33E-02 | | [regulation of biological quality](http://amigo.geneontology.org/amigo/term/GO:0065008) | [3677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&reflist=1) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0065008&list=upload_1&organism=Homo%20sapiens) | 80.90 | 1.72 | + | 5.87E-11 | 6.67E-09 | | [positive regulation of membrane potential](http://amigo.geneontology.org/amigo/term/GO:0045838) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045838&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045838&list=upload_1&organism=Homo%20sapiens) | .37 | 10.69 | + | 9.48E-04 | 2.45E-02 | | [ERBB2 signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038128) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038128&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038128&list=upload_1&organism=Homo%20sapiens) | .40 | 12.63 | + | 1.10E-04 | 4.26E-03 | | [ERBB signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038127) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038127&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038127&list=upload_1&organism=Homo%20sapiens) | 1.36 | 9.53 | + | 6.77E-09 | 6.17E-07 | | [peptidyl-tyrosine autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0038083) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038083&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038083&list=upload_1&organism=Homo%20sapiens) | .40 | 12.63 | + | 1.10E-04 | 4.25E-03 | | [peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018108) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018108&list=upload_1&organism=Homo%20sapiens) | 3.70 | 9.20 | + | 9.64E-21 | 4.88E-18 | | [peptidyl-tyrosine modification](http://amigo.geneontology.org/amigo/term/GO:0018212) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018212&list=upload_1&organism=Homo%20sapiens) | 3.74 | 9.09 | + | 1.34E-20 | 6.35E-18 | | [peptidyl-amino acid modification](http://amigo.geneontology.org/amigo/term/GO:0018193) | [882](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&reflist=1) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018193&list=upload_1&organism=Homo%20sapiens) | 19.41 | 3.71 | + | 8.39E-21 | 4.39E-18 | | [protein autophosphorylation](http://amigo.geneontology.org/amigo/term/GO:0046777) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046777&list=upload_1&organism=Homo%20sapiens) | 4.16 | 8.18 | + | 2.47E-19 | 9.22E-17 | | [retinal ganglion cell axon guidance](http://amigo.geneontology.org/amigo/term/GO:0031290) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031290&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031290&list=upload_1&organism=Homo%20sapiens) | .42 | 11.96 | + | 1.37E-04 | 5.05E-03 | | [axon guidance](http://amigo.geneontology.org/amigo/term/GO:0007411) | [235](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007411&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007411&list=upload_1&organism=Homo%20sapiens) | 5.17 | 6.58 | + | 9.43E-17 | 2.21E-14 | | [neuron projection guidance](http://amigo.geneontology.org/amigo/term/GO:0097485) | [236](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097485&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097485&list=upload_1&organism=Homo%20sapiens) | 5.19 | 6.55 | + | 1.06E-16 | 2.44E-14 | | [neuron projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048812) | [479](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048812&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048812&list=upload_1&organism=Homo%20sapiens) | 10.54 | 4.65 | + | 6.33E-18 | 1.95E-15 | | [neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0031175) | [677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031175&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031175&list=upload_1&organism=Homo%20sapiens) | 14.90 | 3.89 | + | 9.86E-18 | 2.76E-15 | | [neuron development](http://amigo.geneontology.org/amigo/term/GO:0048666) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048666&list=upload_1&organism=Homo%20sapiens) | 18.55 | 3.50 | + | 1.20E-17 | 3.30E-15 | | [cell development](http://amigo.geneontology.org/amigo/term/GO:0048468) | [1725](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&reflist=1) | [96](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048468&list=upload_1&organism=Homo%20sapiens) | 37.95 | 2.53 | + | 1.36E-16 | 2.97E-14 | | [neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0030182) | [1065](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030182&list=upload_1&organism=Homo%20sapiens) | 23.43 | 3.03 | + | 4.26E-16 | 8.56E-14 | | [generation of neurons](http://amigo.geneontology.org/amigo/term/GO:0048699) | [1134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&reflist=1) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048699&list=upload_1&organism=Homo%20sapiens) | 24.95 | 2.97 | + | 2.70E-16 | 5.57E-14 | | [neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0022008) | [1290](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&reflist=1) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022008&list=upload_1&organism=Homo%20sapiens) | 28.38 | 2.99 | + | 5.96E-19 | 2.08E-16 | | [nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007399) | [2191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&reflist=1) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007399&list=upload_1&organism=Homo%20sapiens) | 48.21 | 2.26 | + | 1.34E-15 | 2.53E-13 | | [plasma membrane bounded cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0120036) | [1115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120036&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120036&list=upload_1&organism=Homo%20sapiens) | 24.53 | 2.65 | + | 2.84E-12 | 3.68E-10 | | [cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0030030) | [1161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030030&list=upload_1&organism=Homo%20sapiens) | 25.54 | 2.62 | + | 3.01E-12 | 3.87E-10 | | [plasma membrane bounded cell projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0120039) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120039&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120039&list=upload_1&organism=Homo%20sapiens) | 10.65 | 4.60 | + | 9.32E-18 | 2.71E-15 | | [cell projection morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048858) | [489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048858&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048858&list=upload_1&organism=Homo%20sapiens) | 10.76 | 4.55 | + | 1.37E-17 | 3.69E-15 | | [cell morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0000902) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000902&list=upload_1&organism=Homo%20sapiens) | 15.69 | 3.95 | + | 3.28E-19 | 1.17E-16 | | [cell part morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032990) | [508](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032990&list=upload_1&organism=Homo%20sapiens) | 11.18 | 4.38 | + | 5.60E-17 | 1.33E-14 | | [cellular component morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0032989) | [604](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032989&list=upload_1&organism=Homo%20sapiens) | 13.29 | 3.84 | + | 1.89E-15 | 3.45E-13 | | [chemotaxis](http://amigo.geneontology.org/amigo/term/GO:0006935) | [518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006935&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006935&list=upload_1&organism=Homo%20sapiens) | 11.40 | 4.30 | + | 1.15E-16 | 2.57E-14 | | [taxis](http://amigo.geneontology.org/amigo/term/GO:0042330) | [520](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042330&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042330&list=upload_1&organism=Homo%20sapiens) | 11.44 | 4.28 | + | 1.32E-16 | 2.92E-14 | | [response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0009605) | [2469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&reflist=1) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009605&list=upload_1&organism=Homo%20sapiens) | 54.32 | 2.04 | + | 4.41E-13 | 6.41E-11 | | [locomotion](http://amigo.geneontology.org/amigo/term/GO:0040011) | [539](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040011&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040011&list=upload_1&organism=Homo%20sapiens) | 11.86 | 4.22 | + | 1.13E-16 | 2.58E-14 | | [axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0007409) | [365](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007409&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007409&list=upload_1&organism=Homo%20sapiens) | 8.03 | 5.35 | + | 7.10E-18 | 2.10E-15 | | [cell morphogenesis involved in neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0048667) | [440](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048667&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048667&list=upload_1&organism=Homo%20sapiens) | 9.68 | 4.85 | + | 6.63E-18 | 2.00E-15 | | [cell morphogenesis involved in differentiation](http://amigo.geneontology.org/amigo/term/GO:0000904) | [556](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000904&list=upload_1&organism=Homo%20sapiens) | 12.23 | 4.50 | + | 2.05E-19 | 8.02E-17 | | [axon development](http://amigo.geneontology.org/amigo/term/GO:0061564) | [404](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061564&list=upload_1&organism=Homo%20sapiens) | 8.89 | 4.95 | + | 4.16E-17 | 1.02E-14 | | [atrioventricular valve morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0003181) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003181&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003181&list=upload_1&organism=Homo%20sapiens) | .53 | 11.36 | + | 3.69E-05 | 1.71E-03 | | [heart valve morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0003179) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003179&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003179&list=upload_1&organism=Homo%20sapiens) | 1.21 | 7.44 | + | 8.85E-06 | 4.74E-04 | | [heart valve development](http://amigo.geneontology.org/amigo/term/GO:0003170) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003170&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003170&list=upload_1&organism=Homo%20sapiens) | 1.43 | 6.99 | + | 4.60E-06 | 2.63E-04 | | [heart development](http://amigo.geneontology.org/amigo/term/GO:0007507) | [555](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007507&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007507&list=upload_1&organism=Homo%20sapiens) | 12.21 | 2.54 | + | 6.90E-06 | 3.82E-04 | | [circulatory system development](http://amigo.geneontology.org/amigo/term/GO:0072359) | [909](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072359&list=upload_1&organism=Homo%20sapiens) | 20.00 | 2.25 | + | 9.00E-07 | 6.03E-05 | | [atrioventricular valve development](http://amigo.geneontology.org/amigo/term/GO:0003171) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003171&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003171&list=upload_1&organism=Homo%20sapiens) | .59 | 10.10 | + | 6.51E-05 | 2.77E-03 | | [sympathetic nervous system development](http://amigo.geneontology.org/amigo/term/GO:0048485) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048485&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048485&list=upload_1&organism=Homo%20sapiens) | .48 | 10.33 | + | 2.47E-04 | 8.31E-03 | | [autonomic nervous system development](http://amigo.geneontology.org/amigo/term/GO:0048483) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048483&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048483&list=upload_1&organism=Homo%20sapiens) | 1.06 | 5.68 | + | 1.04E-03 | 2.62E-02 | | [chaperone-mediated protein complex assembly](http://amigo.geneontology.org/amigo/term/GO:0051131) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051131&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051131&list=upload_1&organism=Homo%20sapiens) | .48 | 10.33 | + | 2.47E-04 | 8.29E-03 | | [peptidyl-threonine dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035970) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035970&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035970&list=upload_1&organism=Homo%20sapiens) | .40 | 10.10 | + | 1.14E-03 | 2.83E-02 | | [protein dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0006470) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006470&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006470&list=upload_1&organism=Homo%20sapiens) | 4.03 | 6.46 | + | 6.14E-13 | 8.68E-11 | | [dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0016311) | [246](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016311&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016311&list=upload_1&organism=Homo%20sapiens) | 5.41 | 5.17 | + | 1.01E-11 | 1.24E-09 | | [bicellular tight junction assembly](http://amigo.geneontology.org/amigo/term/GO:0070830) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070830&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070830&list=upload_1&organism=Homo%20sapiens) | 1.10 | 10.00 | + | 6.47E-08 | 5.15E-06 | | [apical junction assembly](http://amigo.geneontology.org/amigo/term/GO:0043297) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043297&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043297&list=upload_1&organism=Homo%20sapiens) | 1.30 | 9.24 | + | 3.48E-08 | 2.89E-06 | | [cell-cell junction assembly](http://amigo.geneontology.org/amigo/term/GO:0007043) | [126](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007043&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007043&list=upload_1&organism=Homo%20sapiens) | 2.77 | 6.13 | + | 1.29E-08 | 1.14E-06 | | [cell junction assembly](http://amigo.geneontology.org/amigo/term/GO:0034329) | [276](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034329&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034329&list=upload_1&organism=Homo%20sapiens) | 6.07 | 3.79 | + | 1.56E-07 | 1.20E-05 | | [cell junction organization](http://amigo.geneontology.org/amigo/term/GO:0034330) | [498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034330&list=upload_1&organism=Homo%20sapiens) | 10.96 | 3.56 | + | 3.85E-11 | 4.41E-09 | | [cell-cell junction organization](http://amigo.geneontology.org/amigo/term/GO:0045216) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045216&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045216&list=upload_1&organism=Homo%20sapiens) | 3.87 | 5.16 | + | 9.75E-09 | 8.79E-07 | | [tight junction assembly](http://amigo.geneontology.org/amigo/term/GO:0120192) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120192&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120192&list=upload_1&organism=Homo%20sapiens) | 1.23 | 9.74 | + | 2.10E-08 | 1.78E-06 | | [tight junction organization](http://amigo.geneontology.org/amigo/term/GO:0120193) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120193&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120193&list=upload_1&organism=Homo%20sapiens) | 1.30 | 9.24 | + | 3.48E-08 | 2.90E-06 | | [mammary gland duct morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060603) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060603&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060603&list=upload_1&organism=Homo%20sapiens) | .73 | 9.64 | + | 2.06E-05 | 1.02E-03 | | [epithelial tube morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060562) | [318](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060562&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060562&list=upload_1&organism=Homo%20sapiens) | 7.00 | 3.00 | + | 1.62E-05 | 8.32E-04 | | [morphogenesis of an epithelium](http://amigo.geneontology.org/amigo/term/GO:0002009) | [459](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002009&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002009&list=upload_1&organism=Homo%20sapiens) | 10.10 | 2.77 | + | 2.75E-06 | 1.66E-04 | | [tissue morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048729) | [568](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048729&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048729&list=upload_1&organism=Homo%20sapiens) | 12.50 | 2.40 | + | 1.96E-05 | 9.83E-04 | | [tube morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0035239) | [673](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035239&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035239&list=upload_1&organism=Homo%20sapiens) | 14.81 | 2.57 | + | 4.28E-07 | 3.05E-05 | | [tube development](http://amigo.geneontology.org/amigo/term/GO:0035295) | [885](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035295&list=upload_1&organism=Homo%20sapiens) | 19.47 | 2.26 | + | 1.15E-06 | 7.45E-05 | | [mammary gland epithelium development](http://amigo.geneontology.org/amigo/term/GO:0061180) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061180&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061180&list=upload_1&organism=Homo%20sapiens) | 1.39 | 7.94 | + | 5.03E-07 | 3.54E-05 | | [mammary gland development](http://amigo.geneontology.org/amigo/term/GO:0030879) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030879&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030879&list=upload_1&organism=Homo%20sapiens) | 2.88 | 4.16 | + | 6.39E-05 | 2.73E-03 | | [mammary gland morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060443) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060443&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060443&list=upload_1&organism=Homo%20sapiens) | 1.06 | 7.58 | + | 2.49E-05 | 1.20E-03 | | [gland morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0022612) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022612&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022612&list=upload_1&organism=Homo%20sapiens) | 2.33 | 5.57 | + | 1.77E-06 | 1.11E-04 | | [negative regulation of anoikis](http://amigo.geneontology.org/amigo/term/GO:2000811) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000811&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000811&list=upload_1&organism=Homo%20sapiens) | .42 | 9.57 | + | 1.36E-03 | 3.26E-02 | | [regulation of anoikis](http://amigo.geneontology.org/amigo/term/GO:2000209) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000209&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000209&list=upload_1&organism=Homo%20sapiens) | .57 | 8.74 | + | 4.84E-04 | 1.43E-02 | | [regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0042981) | [1468](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042981&list=upload_1&organism=Homo%20sapiens) | 32.30 | 2.54 | + | 2.23E-14 | 3.65E-12 | | [regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043067) | [1498](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043067&list=upload_1&organism=Homo%20sapiens) | 32.96 | 2.49 | + | 7.34E-14 | 1.15E-11 | | [regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010941) | [1654](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&reflist=1) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010941&list=upload_1&organism=Homo%20sapiens) | 36.39 | 2.45 | + | 1.64E-14 | 2.71E-12 | | [negative regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043066) | [898](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043066&list=upload_1&organism=Homo%20sapiens) | 19.76 | 2.68 | + | 2.40E-10 | 2.54E-08 | | [negative regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043069) | [918](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043069&list=upload_1&organism=Homo%20sapiens) | 20.20 | 2.67 | + | 1.79E-10 | 1.94E-08 | | [negative regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0060548) | [1022](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060548&list=upload_1&organism=Homo%20sapiens) | 22.49 | 2.76 | + | 1.96E-12 | 2.58E-10 | | [negative regulation of cellular process](http://amigo.geneontology.org/amigo/term/GO:0048523) | [4732](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&reflist=1) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048523&list=upload_1&organism=Homo%20sapiens) | 104.11 | 1.75 | + | 9.17E-16 | 1.75E-13 | | [negative regulation of biological process](http://amigo.geneontology.org/amigo/term/GO:0048519) | [5314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&reflist=1) | [199](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048519&list=upload_1&organism=Homo%20sapiens) | 116.92 | 1.70 | + | 1.99E-16 | 4.21E-14 | | [intrinsic apoptotic signaling pathway in response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0008631) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008631&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008631&list=upload_1&organism=Homo%20sapiens) | .42 | 9.57 | + | 1.36E-03 | 3.26E-02 | | [cellular response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:0034599) | [222](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034599&list=upload_1&organism=Homo%20sapiens) | 4.88 | 3.48 | + | 1.82E-05 | 9.23E-04 | | [cellular response to chemical stress](http://amigo.geneontology.org/amigo/term/GO:0062197) | [273](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062197&list=upload_1&organism=Homo%20sapiens) | 6.01 | 3.16 | + | 2.08E-05 | 1.03E-03 | | [cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0033554) | [1599](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033554&list=upload_1&organism=Homo%20sapiens) | 35.18 | 1.85 | + | 2.48E-06 | 1.50E-04 | | [intrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097193) | [163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097193&list=upload_1&organism=Homo%20sapiens) | 3.59 | 4.18 | + | 7.60E-06 | 4.15E-04 | | [apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0097190) | [316](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097190&list=upload_1&organism=Homo%20sapiens) | 6.95 | 3.45 | + | 4.09E-07 | 2.93E-05 | | [intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:0035556) | [1511](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035556&list=upload_1&organism=Homo%20sapiens) | 33.25 | 3.01 | + | 1.59E-22 | 9.96E-20 | | [regulation of actin cytoskeleton reorganization](http://amigo.geneontology.org/amigo/term/GO:2000249) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000249&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000249&list=upload_1&organism=Homo%20sapiens) | .95 | 9.51 | + | 1.49E-06 | 9.43E-05 | | [regulation of actin cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0032956) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032956&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032956&list=upload_1&organism=Homo%20sapiens) | 8.01 | 3.00 | + | 4.18E-06 | 2.42E-04 | | [regulation of cytoskeleton organization](http://amigo.geneontology.org/amigo/term/GO:0051493) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051493&list=upload_1&organism=Homo%20sapiens) | 11.88 | 2.69 | + | 9.59E-07 | 6.32E-05 | | [regulation of organelle organization](http://amigo.geneontology.org/amigo/term/GO:0033043) | [1189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033043&list=upload_1&organism=Homo%20sapiens) | 26.16 | 2.26 | + | 1.40E-08 | 1.22E-06 | | [regulation of actin filament-based process](http://amigo.geneontology.org/amigo/term/GO:0032970) | [405](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032970&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032970&list=upload_1&organism=Homo%20sapiens) | 8.91 | 3.14 | + | 2.70E-07 | 2.01E-05 | | [peptidyl-tyrosine dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035335) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035335&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035335&list=upload_1&organism=Homo%20sapiens) | .77 | 9.09 | + | 2.88E-05 | 1.37E-03 | | [neurotrophin signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0038179) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038179&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0038179&list=upload_1&organism=Homo%20sapiens) | .57 | 8.74 | + | 4.84E-04 | 1.44E-02 | | [cellular response to growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0071363) | [477](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071363&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071363&list=upload_1&organism=Homo%20sapiens) | 10.49 | 3.33 | + | 2.00E-09 | 1.92E-07 | | [response to growth factor](http://amigo.geneontology.org/amigo/term/GO:0070848) | [507](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070848&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070848&list=upload_1&organism=Homo%20sapiens) | 11.16 | 3.41 | + | 2.25E-10 | 2.40E-08 | | [positive regulation of muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010661) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010661&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010661&list=upload_1&organism=Homo%20sapiens) | .57 | 8.74 | + | 4.84E-04 | 1.43E-02 | | [regulation of muscle cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0010660) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010660&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010660&list=upload_1&organism=Homo%20sapiens) | 1.50 | 4.68 | + | 1.15E-03 | 2.83E-02 | | [positive regulation of apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043065) | [503](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043065&list=upload_1&organism=Homo%20sapiens) | 11.07 | 2.80 | + | 6.52E-07 | 4.48E-05 | | [positive regulation of programmed cell death](http://amigo.geneontology.org/amigo/term/GO:0043068) | [516](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043068&list=upload_1&organism=Homo%20sapiens) | 11.35 | 2.82 | + | 3.77E-07 | 2.72E-05 | | [positive regulation of cell death](http://amigo.geneontology.org/amigo/term/GO:0010942) | [583](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010942&list=upload_1&organism=Homo%20sapiens) | 12.83 | 2.65 | + | 6.15E-07 | 4.28E-05 | | [axonal fasciculation](http://amigo.geneontology.org/amigo/term/GO:0007413) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007413&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007413&list=upload_1&organism=Homo%20sapiens) | .46 | 8.66 | + | 1.87E-03 | 4.29E-02 | | [neuron recognition](http://amigo.geneontology.org/amigo/term/GO:0008038) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008038&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008038&list=upload_1&organism=Homo%20sapiens) | 1.06 | 5.68 | + | 1.04E-03 | 2.62E-02 | | [cell recognition](http://amigo.geneontology.org/amigo/term/GO:0008037) | [230](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008037&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008037&list=upload_1&organism=Homo%20sapiens) | 5.06 | 2.77 | + | 8.77E-04 | 2.31E-02 | | [neuron projection fasciculation](http://amigo.geneontology.org/amigo/term/GO:0106030) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0106030&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0106030&list=upload_1&organism=Homo%20sapiens) | .46 | 8.66 | + | 1.87E-03 | 4.28E-02 | | [glycogen biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0005978) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005978&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0005978&list=upload_1&organism=Homo%20sapiens) | .46 | 8.66 | + | 1.87E-03 | 4.29E-02 | | [glucan biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009250) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009250&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009250&list=upload_1&organism=Homo%20sapiens) | .46 | 8.66 | + | 1.87E-03 | 4.27E-02 | | [regulation of translation in response to stress](http://amigo.geneontology.org/amigo/term/GO:0043555) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043555&reflist=1) | [4](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043555&list=upload_1&organism=Homo%20sapiens) | .46 | 8.66 | + | 1.87E-03 | 4.28E-02 | | [regulation of cellular amide metabolic process](http://amigo.geneontology.org/amigo/term/GO:0034248) | [469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034248&list=upload_1&organism=Homo%20sapiens) | 10.32 | 2.33 | + | 2.11E-04 | 7.22E-03 | | [regulation of cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031323) | [5647](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&reflist=1) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031323&list=upload_1&organism=Homo%20sapiens) | 124.25 | 1.63 | + | 6.87E-15 | 1.16E-12 | | [regulation of cellular macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000112) | [493](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000112&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000112&list=upload_1&organism=Homo%20sapiens) | 10.85 | 2.12 | + | 1.02E-03 | 2.59E-02 | | [regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010556) | [3938](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&reflist=1) | [121](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010556&list=upload_1&organism=Homo%20sapiens) | 86.64 | 1.40 | + | 1.10E-04 | 4.24E-03 | | [regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009889) | [4163](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&reflist=1) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009889&list=upload_1&organism=Homo%20sapiens) | 91.59 | 1.43 | + | 1.21E-05 | 6.36E-04 | | [regulation of cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0031326) | [4102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&reflist=1) | [128](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031326&list=upload_1&organism=Homo%20sapiens) | 90.25 | 1.42 | + | 2.44E-05 | 1.18E-03 | | [regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010468) | [4855](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&reflist=1) | [157](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010468&list=upload_1&organism=Homo%20sapiens) | 106.82 | 1.47 | + | 1.39E-07 | 1.08E-05 | | [regulation of protein export from nucleus](http://amigo.geneontology.org/amigo/term/GO:0046825) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046825&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046825&list=upload_1&organism=Homo%20sapiens) | .70 | 8.52 | + | 1.48E-04 | 5.39E-03 | | [regulation of intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0033157) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033157&list=upload_1&organism=Homo%20sapiens) | 5.08 | 3.15 | + | 9.73E-05 | 3.82E-03 | | [regulation of protein transport](http://amigo.geneontology.org/amigo/term/GO:0051223) | [502](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051223&list=upload_1&organism=Homo%20sapiens) | 11.05 | 2.35 | + | 9.60E-05 | 3.79E-03 | | [regulation of establishment of protein localization](http://amigo.geneontology.org/amigo/term/GO:0070201) | [527](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070201&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070201&list=upload_1&organism=Homo%20sapiens) | 11.60 | 2.24 | + | 2.50E-04 | 8.37E-03 | | [regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:0032880) | [850](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&reflist=1) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032880&list=upload_1&organism=Homo%20sapiens) | 18.70 | 2.41 | + | 1.74E-07 | 1.32E-05 | | [regulation of cellular localization](http://amigo.geneontology.org/amigo/term/GO:0060341) | [962](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060341&list=upload_1&organism=Homo%20sapiens) | 21.17 | 2.55 | + | 1.03E-09 | 1.01E-07 | | [regulation of localization](http://amigo.geneontology.org/amigo/term/GO:0032879) | [2104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&reflist=1) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032879&list=upload_1&organism=Homo%20sapiens) | 46.29 | 1.97 | + | 7.32E-10 | 7.31E-08 | | [regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051049) | [1766](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051049&list=upload_1&organism=Homo%20sapiens) | 38.86 | 2.01 | + | 6.47E-09 | 5.94E-07 | | [regulation of intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0032386) | [342](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032386&list=upload_1&organism=Homo%20sapiens) | 7.52 | 3.19 | + | 1.52E-06 | 9.58E-05 | | [regulation of nucleocytoplasmic transport](http://amigo.geneontology.org/amigo/term/GO:0046822) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046822&list=upload_1&organism=Homo%20sapiens) | 2.46 | 4.46 | + | 7.22E-05 | 3.03E-03 | | [negative regulation of axon extension involved in axon guidance](http://amigo.geneontology.org/amigo/term/GO:0048843) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048843&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048843&list=upload_1&organism=Homo%20sapiens) | .59 | 8.42 | + | 5.64E-04 | 1.61E-02 | | [negative regulation of axon extension](http://amigo.geneontology.org/amigo/term/GO:0030517) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030517&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030517&list=upload_1&organism=Homo%20sapiens) | 1.01 | 5.93 | + | 8.48E-04 | 2.26E-02 | | [negative regulation of axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0050771) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050771&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050771&list=upload_1&organism=Homo%20sapiens) | 1.45 | 5.51 | + | 1.89E-04 | 6.54E-03 | | [regulation of axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0050770) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050770&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050770&list=upload_1&organism=Homo%20sapiens) | 3.48 | 5.75 | + | 1.82E-09 | 1.76E-07 | | [regulation of neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0010975) | [445](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010975&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010975&list=upload_1&organism=Homo%20sapiens) | 9.79 | 3.88 | + | 6.53E-12 | 8.19E-10 | | [regulation of plasma membrane bounded cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0120035) | [640](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120035&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0120035&list=upload_1&organism=Homo%20sapiens) | 14.08 | 3.41 | + | 7.96E-13 | 1.09E-10 | | [regulation of cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0031344) | [656](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031344&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031344&list=upload_1&organism=Homo%20sapiens) | 14.43 | 3.39 | + | 5.19E-13 | 7.40E-11 | | [regulation of anatomical structure morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0022603) | [924](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022603&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022603&list=upload_1&organism=Homo%20sapiens) | 20.33 | 2.95 | + | 3.14E-13 | 4.64E-11 | | [regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0050793) | [2489](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&reflist=1) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050793&list=upload_1&organism=Homo%20sapiens) | 54.76 | 1.95 | + | 2.27E-11 | 2.67E-09 | | [negative regulation of neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0010977) | [141](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010977&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010977&list=upload_1&organism=Homo%20sapiens) | 3.10 | 4.19 | + | 3.00E-05 | 1.42E-03 | | [negative regulation of cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0031345) | [191](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031345&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031345&list=upload_1&organism=Homo%20sapiens) | 4.20 | 3.57 | + | 4.28E-05 | 1.92E-03 | | [negative regulation of cellular component organization](http://amigo.geneontology.org/amigo/term/GO:0051129) | [690](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051129&list=upload_1&organism=Homo%20sapiens) | 15.18 | 2.17 | + | 6.21E-05 | 2.67E-03 | | [negative regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050768) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050768&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050768&list=upload_1&organism=Homo%20sapiens) | 3.17 | 3.47 | + | 5.49E-04 | 1.58E-02 | | [regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050767) | [373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050767&list=upload_1&organism=Homo%20sapiens) | 8.21 | 2.56 | + | 1.41E-04 | 5.17E-03 | | [regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051960) | [452](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051960&list=upload_1&organism=Homo%20sapiens) | 9.94 | 2.61 | + | 1.65E-05 | 8.44E-04 | | [regulation of multicellular organismal development](http://amigo.geneontology.org/amigo/term/GO:2000026) | [1383](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&reflist=1) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000026&list=upload_1&organism=Homo%20sapiens) | 30.43 | 1.97 | + | 1.11E-06 | 7.18E-05 | | [regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051239) | [2750](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&reflist=1) | [111](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051239&list=upload_1&organism=Homo%20sapiens) | 60.51 | 1.83 | + | 2.76E-10 | 2.89E-08 | | [regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0060284) | [513](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060284&list=upload_1&organism=Homo%20sapiens) | 11.29 | 2.39 | + | 5.62E-05 | 2.44E-03 | | [regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045595) | [1581](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&reflist=1) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045595&list=upload_1&organism=Homo%20sapiens) | 34.79 | 1.95 | + | 1.99E-07 | 1.49E-05 | | [negative regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051961) | [149](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051961&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051961&list=upload_1&organism=Homo%20sapiens) | 3.28 | 3.36 | + | 7.15E-04 | 1.95E-02 | | [negative regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051241) | [1039](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051241&list=upload_1&organism=Homo%20sapiens) | 22.86 | 2.32 | + | 3.67E-08 | 3.03E-06 | | [negative regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0051093) | [923](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051093&list=upload_1&organism=Homo%20sapiens) | 20.31 | 2.31 | + | 3.04E-07 | 2.23E-05 | | [negative regulation of cell development](http://amigo.geneontology.org/amigo/term/GO:0010721) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010721&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010721&list=upload_1&organism=Homo%20sapiens) | 4.03 | 3.23 | + | 3.43E-04 | 1.08E-02 | | [negative regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045596) | [676](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045596&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045596&list=upload_1&organism=Homo%20sapiens) | 14.87 | 2.15 | + | 9.35E-05 | 3.70E-03 | | [negative regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0030308) | [188](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030308&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030308&list=upload_1&organism=Homo%20sapiens) | 4.14 | 3.38 | + | 1.30E-04 | 4.85E-03 | | [regulation of cell growth](http://amigo.geneontology.org/amigo/term/GO:0001558) | [429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001558&list=upload_1&organism=Homo%20sapiens) | 9.44 | 2.86 | + | 2.40E-06 | 1.46E-04 | | [regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0040008) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040008&list=upload_1&organism=Homo%20sapiens) | 13.80 | 2.75 | + | 5.16E-08 | 4.19E-06 | | [negative regulation of growth](http://amigo.geneontology.org/amigo/term/GO:0045926) | [247](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045926&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045926&list=upload_1&organism=Homo%20sapiens) | 5.43 | 3.13 | + | 6.39E-05 | 2.74E-03 | | [negative regulation of developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048640) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048640&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048640&list=upload_1&organism=Homo%20sapiens) | 2.40 | 4.17 | + | 2.55E-04 | 8.46E-03 | | [regulation of developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048638) | [324](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048638&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048638&list=upload_1&organism=Homo%20sapiens) | 7.13 | 2.95 | + | 2.11E-05 | 1.04E-03 | | [regulation of extent of cell growth](http://amigo.geneontology.org/amigo/term/GO:0061387) | [112](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061387&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061387&list=upload_1&organism=Homo%20sapiens) | 2.46 | 4.06 | + | 3.12E-04 | 1.00E-02 | | [regulation of cell size](http://amigo.geneontology.org/amigo/term/GO:0008361) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008361&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008361&list=upload_1&organism=Homo%20sapiens) | 4.18 | 3.11 | + | 4.79E-04 | 1.43E-02 | | [regulation of cellular component size](http://amigo.geneontology.org/amigo/term/GO:0032535) | [372](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032535&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032535&list=upload_1&organism=Homo%20sapiens) | 8.18 | 2.57 | + | 1.36E-04 | 5.03E-03 | | [regulation of anatomical structure size](http://amigo.geneontology.org/amigo/term/GO:0090066) | [511](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090066&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090066&list=upload_1&organism=Homo%20sapiens) | 11.24 | 2.22 | + | 3.69E-04 | 1.13E-02 | | [regulation of axon extension involved in axon guidance](http://amigo.geneontology.org/amigo/term/GO:0048841) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048841&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048841&list=upload_1&organism=Homo%20sapiens) | .73 | 6.89 | + | 1.26E-03 | 3.07E-02 | | [negative regulation of chemotaxis](http://amigo.geneontology.org/amigo/term/GO:0050922) | [61](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050922&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050922&list=upload_1&organism=Homo%20sapiens) | 1.34 | 5.22 | + | 6.40E-04 | 1.78E-02 | | [regulation of response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0032101) | [973](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032101&list=upload_1&organism=Homo%20sapiens) | 21.41 | 2.06 | + | 1.13E-05 | 5.94E-04 | | [regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048583) | [4034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&reflist=1) | [188](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048583&list=upload_1&organism=Homo%20sapiens) | 88.76 | 2.12 | + | 7.24E-26 | 8.73E-23 | | [negative regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048585) | [1620](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048585&list=upload_1&organism=Homo%20sapiens) | 35.64 | 2.27 | + | 1.02E-11 | 1.25E-09 | | [regulation of chemotaxis](http://amigo.geneontology.org/amigo/term/GO:0050920) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050920&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050920&list=upload_1&organism=Homo%20sapiens) | 5.02 | 3.19 | + | 8.43E-05 | 3.39E-03 | | [regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040012) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040012&list=upload_1&organism=Homo%20sapiens) | 22.75 | 2.59 | + | 9.74E-11 | 1.08E-08 | | [negative regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040013) | [339](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040013&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040013&list=upload_1&organism=Homo%20sapiens) | 7.46 | 3.22 | + | 1.32E-06 | 8.46E-05 | | [epidermal growth factor receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0007173) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007173&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007173&list=upload_1&organism=Homo%20sapiens) | 1.08 | 8.35 | + | 3.84E-06 | 2.25E-04 | | [negative regulation of cardiac muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0010614) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010614&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010614&list=upload_1&organism=Homo%20sapiens) | .62 | 8.12 | + | 6.53E-04 | 1.81E-02 | | [negative regulation of muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0014741) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014741&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014741&list=upload_1&organism=Homo%20sapiens) | .66 | 7.58 | + | 8.62E-04 | 2.29E-02 | | [regulation of cardiac muscle hypertrophy](http://amigo.geneontology.org/amigo/term/GO:0010611) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010611&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010611&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.05 | + | 1.81E-03 | 4.16E-02 | | [regulation of muscle adaptation](http://amigo.geneontology.org/amigo/term/GO:0043502) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043502&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043502&list=upload_1&organism=Homo%20sapiens) | 1.76 | 4.55 | + | 6.19E-04 | 1.73E-02 | | [positive regulation of telomerase activity](http://amigo.geneontology.org/amigo/term/GO:0051973) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051973&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051973&list=upload_1&organism=Homo%20sapiens) | .75 | 8.02 | + | 1.99E-04 | 6.83E-03 | | [positive regulation of DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000573) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000573&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000573&list=upload_1&organism=Homo%20sapiens) | 1.65 | 5.45 | + | 8.10E-05 | 3.31E-03 | | [positive regulation of DNA metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051054) | [305](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051054&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051054&list=upload_1&organism=Homo%20sapiens) | 6.71 | 3.13 | + | 9.00E-06 | 4.78E-04 | | [positive regulation of nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045935) | [2058](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&reflist=1) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045935&list=upload_1&organism=Homo%20sapiens) | 45.28 | 1.55 | + | 3.61E-04 | 1.12E-02 | | [positive regulation of cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031325) | [3122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&reflist=1) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031325&list=upload_1&organism=Homo%20sapiens) | 68.69 | 1.98 | + | 2.90E-15 | 5.11E-13 | | [regulation of nucleobase-containing compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019219) | [4067](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&reflist=1) | [122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019219&list=upload_1&organism=Homo%20sapiens) | 89.48 | 1.36 | + | 2.72E-04 | 8.95E-03 | | [regulation of DNA biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:2000278) | [125](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000278&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000278&list=upload_1&organism=Homo%20sapiens) | 2.75 | 4.36 | + | 4.20E-05 | 1.90E-03 | | [positive regulation of cellular biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0031328) | [2048](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031328&list=upload_1&organism=Homo%20sapiens) | 45.06 | 1.58 | + | 1.88E-04 | 6.53E-03 | | [positive regulation of biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0009891) | [2087](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&reflist=1) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009891&list=upload_1&organism=Homo%20sapiens) | 45.92 | 1.59 | + | 1.13E-04 | 4.31E-03 | | [positive regulation of macromolecule biosynthetic process](http://amigo.geneontology.org/amigo/term/GO:0010557) | [1943](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010557&list=upload_1&organism=Homo%20sapiens) | 42.75 | 1.54 | + | 4.86E-04 | 1.44E-02 | | [positive regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051347) | [590](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051347&list=upload_1&organism=Homo%20sapiens) | 12.98 | 4.47 | + | 2.55E-20 | 1.14E-17 | | [regulation of transferase activity](http://amigo.geneontology.org/amigo/term/GO:0051338) | [915](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051338&list=upload_1&organism=Homo%20sapiens) | 20.13 | 3.82 | + | 5.42E-23 | 3.69E-20 | | [regulation of telomerase activity](http://amigo.geneontology.org/amigo/term/GO:0051972) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051972&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051972&list=upload_1&organism=Homo%20sapiens) | 1.10 | 7.27 | + | 3.24E-05 | 1.52E-03 | | [motor neuron axon guidance](http://amigo.geneontology.org/amigo/term/GO:0008045) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008045&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008045&list=upload_1&organism=Homo%20sapiens) | .66 | 7.58 | + | 8.62E-04 | 2.29E-02 | | [positive regulation of peptidyl-lysine acetylation](http://amigo.geneontology.org/amigo/term/GO:2000758) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000758&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000758&list=upload_1&organism=Homo%20sapiens) | .95 | 7.40 | + | 9.19E-05 | 3.66E-03 | | [regulation of peptidyl-lysine acetylation](http://amigo.geneontology.org/amigo/term/GO:2000756) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000756&list=upload_1&organism=Homo%20sapiens) | 1.69 | 4.72 | + | 4.90E-04 | 1.45E-02 | | [regulation of protein acetylation](http://amigo.geneontology.org/amigo/term/GO:1901983) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901983&list=upload_1&organism=Homo%20sapiens) | 1.96 | 5.11 | + | 5.46E-05 | 2.39E-03 | | [regulation of protein modification process](http://amigo.geneontology.org/amigo/term/GO:0031399) | [1563](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&reflist=1) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031399&list=upload_1&organism=Homo%20sapiens) | 34.39 | 2.70 | + | 5.52E-18 | 1.77E-15 | | [positive regulation of protein acetylation](http://amigo.geneontology.org/amigo/term/GO:1901985) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901985&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901985&list=upload_1&organism=Homo%20sapiens) | 1.17 | 6.86 | + | 4.70E-05 | 2.09E-03 | | [positive regulation of protein modification process](http://amigo.geneontology.org/amigo/term/GO:0031401) | [1019](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&reflist=1) | [71](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031401&list=upload_1&organism=Homo%20sapiens) | 22.42 | 3.17 | + | 4.92E-17 | 1.19E-14 | | [cardiac atrium development](http://amigo.geneontology.org/amigo/term/GO:0003230) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003230&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003230&list=upload_1&organism=Homo%20sapiens) | .81 | 7.37 | + | 2.99E-04 | 9.69E-03 | | [cardiac chamber development](http://amigo.geneontology.org/amigo/term/GO:0003205) | [168](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003205&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003205&list=upload_1&organism=Homo%20sapiens) | 3.70 | 3.52 | + | 1.57E-04 | 5.64E-03 | | [face morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060325) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060325&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060325&list=upload_1&organism=Homo%20sapiens) | .68 | 7.33 | + | 9.83E-04 | 2.51E-02 | | [face development](http://amigo.geneontology.org/amigo/term/GO:0060324) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060324&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060324&list=upload_1&organism=Homo%20sapiens) | 1.14 | 6.99 | + | 4.16E-05 | 1.89E-03 | | [head development](http://amigo.geneontology.org/amigo/term/GO:0060322) | [823](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&reflist=1) | [42](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060322&list=upload_1&organism=Homo%20sapiens) | 18.11 | 2.32 | + | 9.40E-07 | 6.27E-05 | | [head morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060323) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060323&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060323&list=upload_1&organism=Homo%20sapiens) | .81 | 7.37 | + | 2.99E-04 | 9.71E-03 | | [body morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0010171) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010171&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010171&list=upload_1&organism=Homo%20sapiens) | .97 | 6.20 | + | 6.86E-04 | 1.89E-02 | | [homeostasis of number of cells within a tissue](http://amigo.geneontology.org/amigo/term/GO:0048873) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048873&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048873&list=upload_1&organism=Homo%20sapiens) | .68 | 7.33 | + | 9.83E-04 | 2.51E-02 | | [tissue homeostasis](http://amigo.geneontology.org/amigo/term/GO:0001894) | [245](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001894&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001894&list=upload_1&organism=Homo%20sapiens) | 5.39 | 2.78 | + | 5.49E-04 | 1.58E-02 | | [multicellular organismal homeostasis](http://amigo.geneontology.org/amigo/term/GO:0048871) | [380](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048871&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048871&list=upload_1&organism=Homo%20sapiens) | 8.36 | 2.51 | + | 1.80E-04 | 6.29E-03 | | [homeostatic process](http://amigo.geneontology.org/amigo/term/GO:0042592) | [1424](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042592&list=upload_1&organism=Homo%20sapiens) | 31.33 | 1.60 | + | 1.45E-03 | 3.44E-02 | | [regulation of neuron projection regeneration](http://amigo.geneontology.org/amigo/term/GO:0070570) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070570&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070570&list=upload_1&organism=Homo%20sapiens) | .68 | 7.33 | + | 9.83E-04 | 2.50E-02 | | [regulation of cellular response to stress](http://amigo.geneontology.org/amigo/term/GO:0080135) | [709](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080135&list=upload_1&organism=Homo%20sapiens) | 15.60 | 2.44 | + | 1.02E-06 | 6.64E-05 | | [regulation of response to stress](http://amigo.geneontology.org/amigo/term/GO:0080134) | [1373](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&reflist=1) | [62](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0080134&list=upload_1&organism=Homo%20sapiens) | 30.21 | 2.05 | + | 1.41E-07 | 1.09E-05 | | [placenta blood vessel development](http://amigo.geneontology.org/amigo/term/GO:0060674) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060674&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060674&list=upload_1&organism=Homo%20sapiens) | .68 | 7.33 | + | 9.83E-04 | 2.50E-02 | | [blood vessel development](http://amigo.geneontology.org/amigo/term/GO:0001568) | [510](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001568&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001568&list=upload_1&organism=Homo%20sapiens) | 11.22 | 2.58 | + | 6.64E-06 | 3.69E-04 | | [vasculature development](http://amigo.geneontology.org/amigo/term/GO:0001944) | [532](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001944&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001944&list=upload_1&organism=Homo%20sapiens) | 11.71 | 2.65 | + | 1.98E-06 | 1.23E-04 | | [central nervous system neuron axonogenesis](http://amigo.geneontology.org/amigo/term/GO:0021955) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021955&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021955&list=upload_1&organism=Homo%20sapiens) | .84 | 7.18 | + | 3.40E-04 | 1.07E-02 | | [central nervous system neuron development](http://amigo.geneontology.org/amigo/term/GO:0021954) | [86](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021954&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021954&list=upload_1&organism=Homo%20sapiens) | 1.89 | 5.28 | + | 4.19E-05 | 1.90E-03 | | [central nervous system neuron differentiation](http://amigo.geneontology.org/amigo/term/GO:0021953) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021953&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021953&list=upload_1&organism=Homo%20sapiens) | 3.85 | 3.12 | + | 7.68E-04 | 2.07E-02 | | [central nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007417) | [1034](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007417&list=upload_1&organism=Homo%20sapiens) | 22.75 | 2.33 | + | 3.37E-08 | 2.83E-06 | | [lung morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060425) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060425&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060425&list=upload_1&organism=Homo%20sapiens) | .99 | 7.07 | + | 1.19E-04 | 4.50E-03 | | [lung development](http://amigo.geneontology.org/amigo/term/GO:0030324) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030324&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030324&list=upload_1&organism=Homo%20sapiens) | 4.00 | 3.25 | + | 3.26E-04 | 1.03E-02 | | [respiratory tube development](http://amigo.geneontology.org/amigo/term/GO:0030323) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030323&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030323&list=upload_1&organism=Homo%20sapiens) | 4.09 | 3.18 | + | 3.97E-04 | 1.21E-02 | | [phosphatidylinositol 3-kinase signaling](http://amigo.geneontology.org/amigo/term/GO:0014065) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014065&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014065&list=upload_1&organism=Homo%20sapiens) | .99 | 7.07 | + | 1.19E-04 | 4.49E-03 | | [phosphatidylinositol-mediated signaling](http://amigo.geneontology.org/amigo/term/GO:0048015) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048015&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048015&list=upload_1&organism=Homo%20sapiens) | 1.78 | 6.17 | + | 4.57E-06 | 2.63E-04 | | [inositol lipid-mediated signaling](http://amigo.geneontology.org/amigo/term/GO:0048017) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048017&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048017&list=upload_1&organism=Homo%20sapiens) | 1.87 | 5.88 | + | 6.94E-06 | 3.83E-04 | | [regulation of protein localization to cell surface](http://amigo.geneontology.org/amigo/term/GO:2000008) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000008&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000008&list=upload_1&organism=Homo%20sapiens) | .86 | 6.99 | + | 3.85E-04 | 1.18E-02 | | [negative regulation of oxidative stress-induced cell death](http://amigo.geneontology.org/amigo/term/GO:1903202) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903202&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903202&list=upload_1&organism=Homo%20sapiens) | 1.03 | 6.77 | + | 1.51E-04 | 5.49E-03 | | [regulation of oxidative stress-induced cell death](http://amigo.geneontology.org/amigo/term/GO:1903201) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903201&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903201&list=upload_1&organism=Homo%20sapiens) | 1.61 | 4.98 | + | 3.53E-04 | 1.10E-02 | | [regulation of cellular response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:1900407) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900407&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1900407&list=upload_1&organism=Homo%20sapiens) | 1.85 | 4.87 | + | 1.78E-04 | 6.27E-03 | | [regulation of response to oxidative stress](http://amigo.geneontology.org/amigo/term/GO:1902882) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902882&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902882&list=upload_1&organism=Homo%20sapiens) | 2.07 | 4.35 | + | 3.85E-04 | 1.17E-02 | | [negative chemotaxis](http://amigo.geneontology.org/amigo/term/GO:0050919) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050919&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050919&list=upload_1&organism=Homo%20sapiens) | 1.03 | 6.77 | + | 1.51E-04 | 5.48E-03 | | [protein kinase B signaling](http://amigo.geneontology.org/amigo/term/GO:0043491) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043491&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043491&list=upload_1&organism=Homo%20sapiens) | 1.19 | 6.73 | + | 5.30E-05 | 2.33E-03 | | [digestive tract morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048546) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048546&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048546&list=upload_1&organism=Homo%20sapiens) | 1.06 | 6.63 | + | 1.70E-04 | 6.02E-03 | | [digestive tract development](http://amigo.geneontology.org/amigo/term/GO:0048565) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048565&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048565&list=upload_1&organism=Homo%20sapiens) | 2.90 | 3.44 | + | 1.03E-03 | 2.60E-02 | | [digestive system development](http://amigo.geneontology.org/amigo/term/GO:0055123) | [143](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055123&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0055123&list=upload_1&organism=Homo%20sapiens) | 3.15 | 3.50 | + | 5.20E-04 | 1.51E-02 | | [positive regulation of peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0033138) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033138&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033138&list=upload_1&organism=Homo%20sapiens) | 2.42 | 6.20 | + | 8.18E-08 | 6.42E-06 | | [positive regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001934) | [748](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&reflist=1) | [58](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001934&list=upload_1&organism=Homo%20sapiens) | 16.46 | 3.52 | + | 6.52E-16 | 1.28E-13 | | [regulation of protein phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0001932) | [1105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001932&list=upload_1&organism=Homo%20sapiens) | 24.31 | 3.17 | + | 1.86E-18 | 6.06E-16 | | [regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042325) | [1248](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042325&list=upload_1&organism=Homo%20sapiens) | 27.46 | 3.46 | + | 1.87E-25 | 1.73E-22 | | [regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0019220) | [1404](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&reflist=1) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019220&list=upload_1&organism=Homo%20sapiens) | 30.89 | 3.40 | + | 1.11E-27 | 2.90E-24 | | [regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051174) | [1405](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&reflist=1) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051174&list=upload_1&organism=Homo%20sapiens) | 30.91 | 3.40 | + | 1.17E-27 | 2.62E-24 | | [positive regulation of phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0042327) | [826](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&reflist=1) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042327&list=upload_1&organism=Homo%20sapiens) | 18.17 | 4.24 | + | 1.49E-25 | 1.46E-22 | | [positive regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045937) | [911](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045937&list=upload_1&organism=Homo%20sapiens) | 20.04 | 4.04 | + | 1.22E-25 | 1.27E-22 | | [positive regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010562) | [911](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&reflist=1) | [81](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010562&list=upload_1&organism=Homo%20sapiens) | 20.04 | 4.04 | + | 1.22E-25 | 1.36E-22 | | [regulation of peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0033135) | [143](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033135&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033135&list=upload_1&organism=Homo%20sapiens) | 3.15 | 5.72 | + | 1.28E-08 | 1.14E-06 | | [response to mineralocorticoid](http://amigo.geneontology.org/amigo/term/GO:0051385) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051385&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051385&list=upload_1&organism=Homo%20sapiens) | .81 | 6.14 | + | 2.00E-03 | 4.50E-02 | | [response to steroid hormone](http://amigo.geneontology.org/amigo/term/GO:0048545) | [284](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048545&list=upload_1&organism=Homo%20sapiens) | 6.25 | 2.72 | + | 3.08E-04 | 9.95E-03 | | [response to lipid](http://amigo.geneontology.org/amigo/term/GO:0033993) | [843](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033993&list=upload_1&organism=Homo%20sapiens) | 18.55 | 2.32 | + | 6.89E-07 | 4.70E-05 | | [response to organic cyclic compound](http://amigo.geneontology.org/amigo/term/GO:0014070) | [879](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&reflist=1) | [48](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014070&list=upload_1&organism=Homo%20sapiens) | 19.34 | 2.48 | + | 1.98E-08 | 1.70E-06 | | [cellular response to vascular endothelial growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0035924) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035924&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035924&list=upload_1&organism=Homo%20sapiens) | .99 | 6.06 | + | 7.64E-04 | 2.06E-02 | | [glial cell migration](http://amigo.geneontology.org/amigo/term/GO:0008347) | [45](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008347&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008347&list=upload_1&organism=Homo%20sapiens) | .99 | 6.06 | + | 7.64E-04 | 2.06E-02 | | [cell migration](http://amigo.geneontology.org/amigo/term/GO:0016477) | [903](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016477&list=upload_1&organism=Homo%20sapiens) | 19.87 | 2.77 | + | 3.47E-11 | 4.03E-09 | | [cell motility](http://amigo.geneontology.org/amigo/term/GO:0048870) | [1061](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&reflist=1) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048870&list=upload_1&organism=Homo%20sapiens) | 23.34 | 2.53 | + | 2.03E-10 | 2.18E-08 | | [gliogenesis](http://amigo.geneontology.org/amigo/term/GO:0042063) | [246](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042063&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042063&list=upload_1&organism=Homo%20sapiens) | 5.41 | 3.88 | + | 3.76E-07 | 2.73E-05 | | [regulation of nitric-oxide synthase activity](http://amigo.geneontology.org/amigo/term/GO:0050999) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050999&reflist=1) | [5](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050999&list=upload_1&organism=Homo%20sapiens) | .84 | 5.98 | + | 2.22E-03 | 4.92E-02 | | [regulation of monooxygenase activity](http://amigo.geneontology.org/amigo/term/GO:0032768) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032768&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032768&list=upload_1&organism=Homo%20sapiens) | 1.12 | 6.24 | + | 2.38E-04 | 8.08E-03 | | [regulation of oxidoreductase activity](http://amigo.geneontology.org/amigo/term/GO:0051341) | [101](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051341&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051341&list=upload_1&organism=Homo%20sapiens) | 2.22 | 4.05 | + | 6.25E-04 | 1.75E-02 | | [cellular response to heat](http://amigo.geneontology.org/amigo/term/GO:0034605) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034605&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034605&list=upload_1&organism=Homo%20sapiens) | 1.19 | 5.89 | + | 3.27E-04 | 1.03E-02 | | [response to heat](http://amigo.geneontology.org/amigo/term/GO:0009408) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009408&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009408&list=upload_1&organism=Homo%20sapiens) | 2.27 | 3.97 | + | 7.12E-04 | 1.94E-02 | | [response to temperature stimulus](http://amigo.geneontology.org/amigo/term/GO:0009266) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009266&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009266&list=upload_1&organism=Homo%20sapiens) | 3.92 | 3.83 | + | 2.00E-05 | 1.00E-03 | | [response to epidermal growth factor](http://amigo.geneontology.org/amigo/term/GO:0070849) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070849&list=upload_1&organism=Homo%20sapiens) | 1.03 | 5.80 | + | 9.39E-04 | 2.44E-02 | | [labyrinthine layer development](http://amigo.geneontology.org/amigo/term/GO:0060711) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060711&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060711&list=upload_1&organism=Homo%20sapiens) | 1.03 | 5.80 | + | 9.39E-04 | 2.43E-02 | | [embryonic organ development](http://amigo.geneontology.org/amigo/term/GO:0048568) | [454](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048568&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048568&list=upload_1&organism=Homo%20sapiens) | 9.99 | 2.30 | + | 3.25E-04 | 1.03E-02 | | [in utero embryonic development](http://amigo.geneontology.org/amigo/term/GO:0001701) | [395](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001701&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001701&list=upload_1&organism=Homo%20sapiens) | 8.69 | 2.19 | + | 1.84E-03 | 4.23E-02 | | [chordate embryonic development](http://amigo.geneontology.org/amigo/term/GO:0043009) | [655](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043009&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043009&list=upload_1&organism=Homo%20sapiens) | 14.41 | 1.94 | + | 1.13E-03 | 2.82E-02 | | [embryo development ending in birth or egg hatching](http://amigo.geneontology.org/amigo/term/GO:0009792) | [677](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009792&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009792&list=upload_1&organism=Homo%20sapiens) | 14.90 | 1.88 | + | 2.07E-03 | 4.66E-02 | | [ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070371) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070371&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070371&list=upload_1&organism=Homo%20sapiens) | 1.21 | 5.78 | + | 3.62E-04 | 1.12E-02 | | [MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0000165) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000165&list=upload_1&organism=Homo%20sapiens) | 4.84 | 4.75 | + | 3.27E-09 | 3.05E-07 | | [insulin receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0008286) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008286&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008286&list=upload_1&organism=Homo%20sapiens) | 1.39 | 5.77 | + | 1.41E-04 | 5.17E-03 | | [response to organonitrogen compound](http://amigo.geneontology.org/amigo/term/GO:0010243) | [968](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&reflist=1) | [43](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010243&list=upload_1&organism=Homo%20sapiens) | 21.30 | 2.02 | + | 2.90E-05 | 1.38E-03 | | [response to nitrogen compound](http://amigo.geneontology.org/amigo/term/GO:1901698) | [1062](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901698&list=upload_1&organism=Homo%20sapiens) | 23.37 | 1.97 | + | 2.49E-05 | 1.20E-03 | | [cellular response to oxygen-containing compound](http://amigo.geneontology.org/amigo/term/GO:1901701) | [1059](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901701&list=upload_1&organism=Homo%20sapiens) | 23.30 | 2.02 | + | 9.20E-06 | 4.87E-04 | | [response to gamma radiation](http://amigo.geneontology.org/amigo/term/GO:0010332) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010332&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010332&list=upload_1&organism=Homo%20sapiens) | 1.23 | 5.68 | + | 4.00E-04 | 1.21E-02 | | [response to ionizing radiation](http://amigo.geneontology.org/amigo/term/GO:0010212) | [144](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010212&list=upload_1&organism=Homo%20sapiens) | 3.17 | 3.16 | + | 1.89E-03 | 4.30E-02 | | [response to radiation](http://amigo.geneontology.org/amigo/term/GO:0009314) | [449](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009314&list=upload_1&organism=Homo%20sapiens) | 9.88 | 2.33 | + | 2.87E-04 | 9.34E-03 | | [peptidyl-serine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018105) | [186](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018105&list=upload_1&organism=Homo%20sapiens) | 4.09 | 5.62 | + | 1.67E-10 | 1.82E-08 | | [peptidyl-serine modification](http://amigo.geneontology.org/amigo/term/GO:0018209) | [206](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018209&list=upload_1&organism=Homo%20sapiens) | 4.53 | 5.07 | + | 1.03E-09 | 1.01E-07 | | [axon extension](http://amigo.geneontology.org/amigo/term/GO:0048675) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048675&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048675&list=upload_1&organism=Homo%20sapiens) | 1.08 | 5.57 | + | 1.14E-03 | 2.84E-02 | | [neuron projection extension](http://amigo.geneontology.org/amigo/term/GO:1990138) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990138&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1990138&list=upload_1&organism=Homo%20sapiens) | 1.69 | 4.72 | + | 4.90E-04 | 1.44E-02 | | [developmental cell growth](http://amigo.geneontology.org/amigo/term/GO:0048588) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048588&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048588&list=upload_1&organism=Homo%20sapiens) | 2.27 | 5.30 | + | 7.13E-06 | 3.92E-04 | | [developmental growth](http://amigo.geneontology.org/amigo/term/GO:0048589) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048589&list=upload_1&organism=Homo%20sapiens) | 9.09 | 2.53 | + | 8.04E-05 | 3.31E-03 | | [growth](http://amigo.geneontology.org/amigo/term/GO:0040007) | [413](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040007&list=upload_1&organism=Homo%20sapiens) | 9.09 | 2.53 | + | 8.04E-05 | 3.32E-03 | | [cell growth](http://amigo.geneontology.org/amigo/term/GO:0016049) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016049&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016049&list=upload_1&organism=Homo%20sapiens) | 2.31 | 5.19 | + | 8.53E-06 | 4.59E-04 | | [developmental growth involved in morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060560) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060560&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060560&list=upload_1&organism=Homo%20sapiens) | 2.88 | 5.20 | + | 6.34E-07 | 4.40E-05 | | [thymus development](http://amigo.geneontology.org/amigo/term/GO:0048538) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048538&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048538&list=upload_1&organism=Homo%20sapiens) | 1.08 | 5.57 | + | 1.14E-03 | 2.83E-02 | | [hematopoietic or lymphoid organ development](http://amigo.geneontology.org/amigo/term/GO:0048534) | [710](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048534&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048534&list=upload_1&organism=Homo%20sapiens) | 15.62 | 2.50 | + | 4.42E-07 | 3.14E-05 | | [immune system development](http://amigo.geneontology.org/amigo/term/GO:0002520) | [757](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002520&reflist=1) | [40](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002520&list=upload_1&organism=Homo%20sapiens) | 16.66 | 2.40 | + | 1.09E-06 | 7.07E-05 | | [immune system process](http://amigo.geneontology.org/amigo/term/GO:0002376) | [2429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002376&reflist=1) | [95](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002376&list=upload_1&organism=Homo%20sapiens) | 53.44 | 1.78 | + | 4.43E-08 | 3.62E-06 | | [response to nicotine](http://amigo.geneontology.org/amigo/term/GO:0035094) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035094&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035094&list=upload_1&organism=Homo%20sapiens) | 1.08 | 5.57 | + | 1.14E-03 | 2.83E-02 | | [hippocampus development](http://amigo.geneontology.org/amigo/term/GO:0021766) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021766&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021766&list=upload_1&organism=Homo%20sapiens) | 1.85 | 5.41 | + | 3.49E-05 | 1.62E-03 | | [pallium development](http://amigo.geneontology.org/amigo/term/GO:0021543) | [177](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021543&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021543&list=upload_1&organism=Homo%20sapiens) | 3.89 | 3.08 | + | 8.43E-04 | 2.26E-02 | | [telencephalon development](http://amigo.geneontology.org/amigo/term/GO:0021537) | [259](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021537&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021537&list=upload_1&organism=Homo%20sapiens) | 5.70 | 3.16 | + | 3.48E-05 | 1.62E-03 | | [forebrain development](http://amigo.geneontology.org/amigo/term/GO:0030900) | [388](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030900&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030900&list=upload_1&organism=Homo%20sapiens) | 8.54 | 2.58 | + | 8.94E-05 | 3.58E-03 | | [brain development](http://amigo.geneontology.org/amigo/term/GO:0007420) | [775](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007420&reflist=1) | [36](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007420&list=upload_1&organism=Homo%20sapiens) | 17.05 | 2.11 | + | 5.53E-05 | 2.41E-03 | | [limbic system development](http://amigo.geneontology.org/amigo/term/GO:0021761) | [113](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021761&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0021761&list=upload_1&organism=Homo%20sapiens) | 2.49 | 4.83 | + | 1.68E-05 | 8.55E-04 | | [fibroblast growth factor receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0008543) | [59](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008543&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008543&list=upload_1&organism=Homo%20sapiens) | 1.30 | 5.39 | + | 5.33E-04 | 1.54E-02 | | [cellular response to fibroblast growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0044344) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044344&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044344&list=upload_1&organism=Homo%20sapiens) | 1.87 | 4.81 | + | 1.94E-04 | 6.67E-03 | | [response to fibroblast growth factor](http://amigo.geneontology.org/amigo/term/GO:0071774) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071774&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071774&list=upload_1&organism=Homo%20sapiens) | 2.00 | 4.50 | + | 3.09E-04 | 9.98E-03 | | [homotypic cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0034109) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034109&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034109&list=upload_1&organism=Homo%20sapiens) | 1.32 | 5.30 | + | 5.84E-04 | 1.66E-02 | | [positive regulation of protein localization to plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1903078) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903078&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903078&list=upload_1&organism=Homo%20sapiens) | 1.32 | 5.30 | + | 5.84E-04 | 1.66E-02 | | [regulation of protein localization to plasma membrane](http://amigo.geneontology.org/amigo/term/GO:1903076) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903076&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903076&list=upload_1&organism=Homo%20sapiens) | 2.31 | 3.90 | + | 8.09E-04 | 2.17E-02 | | [regulation of protein localization to cell periphery](http://amigo.geneontology.org/amigo/term/GO:1904375) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904375&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904375&list=upload_1&organism=Homo%20sapiens) | 2.79 | 3.94 | + | 2.02E-04 | 6.92E-03 | | [regulation of protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:1905475) | [176](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905475&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905475&list=upload_1&organism=Homo%20sapiens) | 3.87 | 3.62 | + | 6.74E-05 | 2.86E-03 | | [positive regulation of protein localization to membrane](http://amigo.geneontology.org/amigo/term/GO:1905477) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905477&list=upload_1&organism=Homo%20sapiens) | 2.29 | 5.24 | + | 7.80E-06 | 4.23E-04 | | [positive regulation of protein localization](http://amigo.geneontology.org/amigo/term/GO:1903829) | [462](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903829&list=upload_1&organism=Homo%20sapiens) | 10.16 | 2.46 | + | 8.36E-05 | 3.37E-03 | | [positive regulation of protein localization to cell periphery](http://amigo.geneontology.org/amigo/term/GO:1904377) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904377&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904377&list=upload_1&organism=Homo%20sapiens) | 1.50 | 4.68 | + | 1.15E-03 | 2.84E-02 | | [cellular senescence](http://amigo.geneontology.org/amigo/term/GO:0090398) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090398&list=upload_1&organism=Homo%20sapiens) | 1.32 | 5.30 | + | 5.84E-04 | 1.65E-02 | | [astrocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0048708) | [60](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048708&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048708&list=upload_1&organism=Homo%20sapiens) | 1.32 | 5.30 | + | 5.84E-04 | 1.65E-02 | | [glial cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0010001) | [187](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010001&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010001&list=upload_1&organism=Homo%20sapiens) | 4.11 | 3.89 | + | 8.93E-06 | 4.76E-04 | | [positive regulation of epithelial to mesenchymal transition](http://amigo.geneontology.org/amigo/term/GO:0010718) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010718&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010718&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.24 | + | 1.51E-03 | 3.57E-02 | | [positive regulation of cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0045597) | [884](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045597&list=upload_1&organism=Homo%20sapiens) | 19.45 | 1.90 | + | 2.72E-04 | 8.98E-03 | | [positive regulation of developmental process](http://amigo.geneontology.org/amigo/term/GO:0051094) | [1339](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051094&list=upload_1&organism=Homo%20sapiens) | 29.46 | 1.73 | + | 1.76E-04 | 6.22E-03 | | [regulation of epithelial to mesenchymal transition](http://amigo.geneontology.org/amigo/term/GO:0010717) | [97](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010717&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010717&list=upload_1&organism=Homo%20sapiens) | 2.13 | 5.15 | + | 2.16E-05 | 1.06E-03 | | [positive regulation of multicellular organismal process](http://amigo.geneontology.org/amigo/term/GO:0051240) | [1515](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051240&list=upload_1&organism=Homo%20sapiens) | 33.33 | 1.65 | + | 3.79E-04 | 1.16E-02 | | [regulation of morphogenesis of a branching structure](http://amigo.geneontology.org/amigo/term/GO:0060688) | [52](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060688&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060688&list=upload_1&organism=Homo%20sapiens) | 1.14 | 5.24 | + | 1.51E-03 | 3.56E-02 | | [peptidyl-threonine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0018107) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018107&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018107&list=upload_1&organism=Homo%20sapiens) | 1.54 | 5.19 | + | 2.72E-04 | 8.97E-03 | | [peptidyl-threonine modification](http://amigo.geneontology.org/amigo/term/GO:0018210) | [79](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018210&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0018210&list=upload_1&organism=Homo%20sapiens) | 1.74 | 4.60 | + | 5.74E-04 | 1.63E-02 | | [positive regulation of canonical Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0090263) | [105](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090263&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090263&list=upload_1&organism=Homo%20sapiens) | 2.31 | 5.19 | + | 8.53E-06 | 4.61E-04 | | [regulation of canonical Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0060828) | [255](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060828&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060828&list=upload_1&organism=Homo%20sapiens) | 5.61 | 3.74 | + | 6.48E-07 | 4.48E-05 | | [regulation of Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030111) | [332](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030111&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030111&list=upload_1&organism=Homo%20sapiens) | 7.30 | 2.87 | + | 2.96E-05 | 1.40E-03 | | [regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009966) | [2989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&reflist=1) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009966&list=upload_1&organism=Homo%20sapiens) | 65.76 | 2.31 | + | 1.33E-23 | 1.10E-20 | | [regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010646) | [3369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&reflist=1) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010646&list=upload_1&organism=Homo%20sapiens) | 74.12 | 2.13 | + | 4.76E-21 | 2.67E-18 | | [regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023051) | [3381](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&reflist=1) | [158](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023051&list=upload_1&organism=Homo%20sapiens) | 74.39 | 2.12 | + | 5.48E-21 | 2.97E-18 | | [positive regulation of Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030177) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030177&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030177&list=upload_1&organism=Homo%20sapiens) | 3.12 | 3.84 | + | 1.30E-04 | 4.84E-03 | | [positive regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009967) | [1528](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&reflist=1) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009967&list=upload_1&organism=Homo%20sapiens) | 33.62 | 2.50 | + | 2.83E-14 | 4.53E-12 | | [positive regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023056) | [1701](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&reflist=1) | [88](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023056&list=upload_1&organism=Homo%20sapiens) | 37.43 | 2.35 | + | 1.62E-13 | 2.47E-11 | | [positive regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010647) | [1696](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&reflist=1) | [87](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010647&list=upload_1&organism=Homo%20sapiens) | 37.32 | 2.33 | + | 3.30E-13 | 4.84E-11 | | [positive regulation of response to stimulus](http://amigo.geneontology.org/amigo/term/GO:0048584) | [2223](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&reflist=1) | [106](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048584&list=upload_1&organism=Homo%20sapiens) | 48.91 | 2.17 | + | 5.16E-14 | 8.17E-12 | | [positive regulation of cellular carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010676) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010676&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010676&list=upload_1&organism=Homo%20sapiens) | 1.17 | 5.15 | + | 1.65E-03 | 3.84E-02 | | [positive regulation of carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045913) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045913&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045913&list=upload_1&organism=Homo%20sapiens) | 1.65 | 4.85 | + | 4.17E-04 | 1.26E-02 | | [regulation of carbohydrate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0006109) | [189](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006109&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006109&list=upload_1&organism=Homo%20sapiens) | 4.16 | 3.13 | + | 4.58E-04 | 1.37E-02 | | [epithelial to mesenchymal transition](http://amigo.geneontology.org/amigo/term/GO:0001837) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001837&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001837&list=upload_1&organism=Homo%20sapiens) | 1.76 | 5.11 | + | 1.27E-04 | 4.78E-03 | | [mesenchymal cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0048762) | [171](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048762&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048762&list=upload_1&organism=Homo%20sapiens) | 3.76 | 4.52 | + | 7.11E-07 | 4.81E-05 | | [mesenchyme development](http://amigo.geneontology.org/amigo/term/GO:0060485) | [239](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060485&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060485&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.80 | + | 9.50E-07 | 6.31E-05 | | [positive regulation of phosphatidylinositol 3-kinase signaling](http://amigo.geneontology.org/amigo/term/GO:0014068) | [80](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014068&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014068&list=upload_1&organism=Homo%20sapiens) | 1.76 | 5.11 | + | 1.27E-04 | 4.77E-03 | | [regulation of phosphatidylinositol 3-kinase signaling](http://amigo.geneontology.org/amigo/term/GO:0014066) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014066&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014066&list=upload_1&organism=Homo%20sapiens) | 2.38 | 4.63 | + | 5.33E-05 | 2.34E-03 | | [regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902531) | [1721](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&reflist=1) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902531&list=upload_1&organism=Homo%20sapiens) | 37.87 | 3.06 | + | 5.09E-27 | 8.87E-24 | | [positive regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902533) | [999](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&reflist=1) | [67](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902533&list=upload_1&organism=Homo%20sapiens) | 21.98 | 3.05 | + | 2.47E-15 | 4.39E-13 | | [T cell differentiation in thymus](http://amigo.geneontology.org/amigo/term/GO:0033077) | [63](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033077&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033077&list=upload_1&organism=Homo%20sapiens) | 1.39 | 5.05 | + | 7.62E-04 | 2.06E-02 | | [T cell activation](http://amigo.geneontology.org/amigo/term/GO:0042110) | [300](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042110&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042110&list=upload_1&organism=Homo%20sapiens) | 6.60 | 2.58 | + | 5.56E-04 | 1.59E-02 | | [lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0046649) | [465](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046649&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046649&list=upload_1&organism=Homo%20sapiens) | 10.23 | 2.15 | + | 1.21E-03 | 2.96E-02 | | [cell activation](http://amigo.geneontology.org/amigo/term/GO:0001775) | [700](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001775&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001775&list=upload_1&organism=Homo%20sapiens) | 15.40 | 1.95 | + | 9.74E-04 | 2.50E-02 | | [mononuclear cell differentiation](http://amigo.geneontology.org/amigo/term/GO:1903131) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903131&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903131&list=upload_1&organism=Homo%20sapiens) | 7.17 | 2.65 | + | 1.92E-04 | 6.62E-03 | | [leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002521) | [400](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002521&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002521&list=upload_1&organism=Homo%20sapiens) | 8.80 | 2.73 | + | 1.83E-05 | 9.28E-04 | | [hemopoiesis](http://amigo.geneontology.org/amigo/term/GO:0030097) | [660](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030097&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030097&list=upload_1&organism=Homo%20sapiens) | 14.52 | 2.41 | + | 3.45E-06 | 2.05E-04 | | [negative regulation of ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070373) | [72](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070373&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070373&list=upload_1&organism=Homo%20sapiens) | 1.58 | 5.05 | + | 3.24E-04 | 1.03E-02 | | [negative regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043409) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043409&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043409&list=upload_1&organism=Homo%20sapiens) | 3.74 | 3.21 | + | 6.05E-04 | 1.70E-02 | | [negative regulation of intracellular signal transduction](http://amigo.geneontology.org/amigo/term/GO:1902532) | [518](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1902532&list=upload_1&organism=Homo%20sapiens) | 11.40 | 3.07 | + | 1.44E-08 | 1.25E-06 | | [negative regulation of signal transduction](http://amigo.geneontology.org/amigo/term/GO:0009968) | [1257](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009968&list=upload_1&organism=Homo%20sapiens) | 27.66 | 2.35 | + | 4.22E-10 | 4.33E-08 | | [negative regulation of cell communication](http://amigo.geneontology.org/amigo/term/GO:0010648) | [1357](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010648&list=upload_1&organism=Homo%20sapiens) | 29.86 | 2.31 | + | 2.65E-10 | 2.79E-08 | | [negative regulation of signaling](http://amigo.geneontology.org/amigo/term/GO:0023057) | [1363](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&reflist=1) | [69](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0023057&list=upload_1&organism=Homo%20sapiens) | 29.99 | 2.30 | + | 2.93E-10 | 3.05E-08 | | [regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043408) | [672](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043408&list=upload_1&organism=Homo%20sapiens) | 14.79 | 3.86 | + | 2.95E-17 | 7.70E-15 | | [regulation of ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070372) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070372&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070372&list=upload_1&organism=Homo%20sapiens) | 6.67 | 5.25 | + | 1.61E-14 | 2.68E-12 | | [establishment of cell polarity](http://amigo.geneontology.org/amigo/term/GO:0030010) | [127](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030010&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030010&list=upload_1&organism=Homo%20sapiens) | 2.79 | 5.01 | + | 2.26E-06 | 1.38E-04 | | [establishment or maintenance of cell polarity](http://amigo.geneontology.org/amigo/term/GO:0007163) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007163&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007163&list=upload_1&organism=Homo%20sapiens) | 4.62 | 3.46 | + | 3.38E-05 | 1.58E-03 | | [regulation of blood vessel endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0043535) | [91](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043535&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043535&list=upload_1&organism=Homo%20sapiens) | 2.00 | 4.99 | + | 6.48E-05 | 2.76E-03 | | [regulation of endothelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010594) | [169](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010594&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010594&list=upload_1&organism=Homo%20sapiens) | 3.72 | 3.50 | + | 1.66E-04 | 5.93E-03 | | [regulation of epithelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010632) | [229](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010632&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010632&list=upload_1&organism=Homo%20sapiens) | 5.04 | 3.57 | + | 7.43E-06 | 4.07E-04 | | [regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030334) | [929](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&reflist=1) | [53](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030334&list=upload_1&organism=Homo%20sapiens) | 20.44 | 2.59 | + | 1.06E-09 | 1.03E-07 | | [regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000145) | [989](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&reflist=1) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000145&list=upload_1&organism=Homo%20sapiens) | 21.76 | 2.57 | + | 3.81E-10 | 3.93E-08 | | [cellular response to glucose starvation](http://amigo.geneontology.org/amigo/term/GO:0042149) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042149&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042149&list=upload_1&organism=Homo%20sapiens) | 1.21 | 4.96 | + | 1.97E-03 | 4.45E-02 | | [cellular response to starvation](http://amigo.geneontology.org/amigo/term/GO:0009267) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009267&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009267&list=upload_1&organism=Homo%20sapiens) | 3.92 | 3.06 | + | 8.83E-04 | 2.32E-02 | | [cellular response to nutrient levels](http://amigo.geneontology.org/amigo/term/GO:0031669) | [226](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031669&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031669&list=upload_1&organism=Homo%20sapiens) | 4.97 | 2.61 | + | 2.13E-03 | 4.74E-02 | | [cellular response to external stimulus](http://amigo.geneontology.org/amigo/term/GO:0071496) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071496&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071496&list=upload_1&organism=Homo%20sapiens) | 7.15 | 2.52 | + | 4.99E-04 | 1.47E-02 | | [positive regulation of phospholipase activity](http://amigo.geneontology.org/amigo/term/GO:0010518) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010518&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010518&list=upload_1&organism=Homo%20sapiens) | 1.21 | 4.96 | + | 1.97E-03 | 4.44E-02 | | [regulation of phospholipase activity](http://amigo.geneontology.org/amigo/term/GO:0010517) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010517&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010517&list=upload_1&organism=Homo%20sapiens) | 1.45 | 4.82 | + | 9.81E-04 | 2.51E-02 | | [peripheral nervous system development](http://amigo.geneontology.org/amigo/term/GO:0007422) | [83](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007422&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007422&list=upload_1&organism=Homo%20sapiens) | 1.83 | 4.93 | + | 1.64E-04 | 5.88E-03 | | [intracellular steroid hormone receptor signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0030518) | [56](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030518&reflist=1) | [6](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030518&list=upload_1&organism=Homo%20sapiens) | 1.23 | 4.87 | + | 2.14E-03 | 4.76E-02 | | [cellular response to organic cyclic compound](http://amigo.geneontology.org/amigo/term/GO:0071407) | [514](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071407&list=upload_1&organism=Homo%20sapiens) | 11.31 | 2.48 | + | 2.65E-05 | 1.27E-03 | | [cellular response to lipid](http://amigo.geneontology.org/amigo/term/GO:0071396) | [519](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071396&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071396&list=upload_1&organism=Homo%20sapiens) | 11.42 | 2.19 | + | 4.21E-04 | 1.27E-02 | | [regulation of protein dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035304) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035304&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035304&list=upload_1&organism=Homo%20sapiens) | 2.07 | 4.84 | + | 8.32E-05 | 3.37E-03 | | [regulation of dephosphorylation](http://amigo.geneontology.org/amigo/term/GO:0035303) | [135](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035303&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0035303&list=upload_1&organism=Homo%20sapiens) | 2.97 | 4.04 | + | 8.35E-05 | 3.37E-03 | | [regulation of dendrite morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048814) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048814&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048814&list=upload_1&organism=Homo%20sapiens) | 1.45 | 4.82 | + | 9.81E-04 | 2.52E-02 | | [regulation of dendrite development](http://amigo.geneontology.org/amigo/term/GO:0050773) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050773&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050773&list=upload_1&organism=Homo%20sapiens) | 2.27 | 3.97 | + | 7.12E-04 | 1.95E-02 | | [positive regulation of Ras protein signal transduction](http://amigo.geneontology.org/amigo/term/GO:0046579) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046579&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046579&list=upload_1&organism=Homo%20sapiens) | 1.45 | 4.82 | + | 9.81E-04 | 2.51E-02 | | [positive regulation of small GTPase mediated signal transduction](http://amigo.geneontology.org/amigo/term/GO:0051057) | [74](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051057&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051057&list=upload_1&organism=Homo%20sapiens) | 1.63 | 4.91 | + | 3.84E-04 | 1.17E-02 | | [regulation of signal transduction by p53 class mediator](http://amigo.geneontology.org/amigo/term/GO:1901796) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901796&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901796&list=upload_1&organism=Homo%20sapiens) | 2.29 | 4.81 | + | 3.89E-05 | 1.79E-03 | | [negative regulation of epithelial cell migration](http://amigo.geneontology.org/amigo/term/GO:0010633) | [68](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010633&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010633&list=upload_1&organism=Homo%20sapiens) | 1.50 | 4.68 | + | 1.15E-03 | 2.83E-02 | | [negative regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030336) | [288](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030336&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030336&list=upload_1&organism=Homo%20sapiens) | 6.34 | 2.84 | + | 1.25E-04 | 4.71E-03 | | [negative regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000146) | [303](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000146&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000146&list=upload_1&organism=Homo%20sapiens) | 6.67 | 2.85 | + | 7.83E-05 | 3.26E-03 | | [branching morphogenesis of an epithelial tube](http://amigo.geneontology.org/amigo/term/GO:0048754) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048754&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048754&list=upload_1&organism=Homo%20sapiens) | 3.01 | 4.64 | + | 5.07E-06 | 2.87E-04 | | [morphogenesis of a branching epithelium](http://amigo.geneontology.org/amigo/term/GO:0061138) | [165](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061138&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061138&list=upload_1&organism=Homo%20sapiens) | 3.63 | 4.41 | + | 2.03E-06 | 1.26E-04 | | [morphogenesis of a branching structure](http://amigo.geneontology.org/amigo/term/GO:0001763) | [175](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001763&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001763&list=upload_1&organism=Homo%20sapiens) | 3.85 | 4.42 | + | 9.56E-07 | 6.32E-05 | | [cellular response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097306) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097306&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097306&list=upload_1&organism=Homo%20sapiens) | 2.16 | 4.64 | + | 1.14E-04 | 4.37E-03 | | [response to alcohol](http://amigo.geneontology.org/amigo/term/GO:0097305) | [254](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0097305&list=upload_1&organism=Homo%20sapiens) | 5.59 | 3.94 | + | 1.57E-07 | 1.20E-05 | | [positive regulation of ERK1 and ERK2 cascade](http://amigo.geneontology.org/amigo/term/GO:0070374) | [217](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070374&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070374&list=upload_1&organism=Homo%20sapiens) | 4.77 | 4.61 | + | 1.20E-08 | 1.07E-06 | | [positive regulation of MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0043410) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043410&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043410&list=upload_1&organism=Homo%20sapiens) | 10.65 | 3.66 | + | 1.74E-11 | 2.09E-09 | | [epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050673) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050673&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050673&list=upload_1&organism=Homo%20sapiens) | 3.74 | 4.55 | + | 6.60E-07 | 4.52E-05 | | [cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008283) | [718](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008283&list=upload_1&organism=Homo%20sapiens) | 15.80 | 2.60 | + | 7.03E-08 | 5.54E-06 | | [cardiac septum morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0060411) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060411&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060411&list=upload_1&organism=Homo%20sapiens) | 1.54 | 4.55 | + | 1.34E-03 | 3.25E-02 | | [cardiac septum development](http://amigo.geneontology.org/amigo/term/GO:0003279) | [107](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003279&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003279&list=upload_1&organism=Homo%20sapiens) | 2.35 | 3.82 | + | 9.17E-04 | 2.39E-02 | | [cardiac chamber morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0003206) | [124](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003206&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003206&list=upload_1&organism=Homo%20sapiens) | 2.73 | 3.67 | + | 6.57E-04 | 1.82E-02 | | [heart morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0003007) | [249](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003007&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003007&list=upload_1&organism=Homo%20sapiens) | 5.48 | 2.74 | + | 6.43E-04 | 1.78E-02 | | [cardiac ventricle morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0003208) | [70](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003208&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003208&list=upload_1&organism=Homo%20sapiens) | 1.54 | 4.55 | + | 1.34E-03 | 3.24E-02 | | [negative regulation of angiogenesis](http://amigo.geneontology.org/amigo/term/GO:0016525) | [102](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016525&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016525&list=upload_1&organism=Homo%20sapiens) | 2.24 | 4.46 | + | 1.55E-04 | 5.58E-03 | | [negative regulation of blood vessel morphogenesis](http://amigo.geneontology.org/amigo/term/GO:2000181) | [103](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000181&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000181&list=upload_1&organism=Homo%20sapiens) | 2.27 | 4.41 | + | 1.67E-04 | 5.94E-03 | | [negative regulation of vasculature development](http://amigo.geneontology.org/amigo/term/GO:1901343) | [104](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901343&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901343&list=upload_1&organism=Homo%20sapiens) | 2.29 | 4.37 | + | 1.79E-04 | 6.29E-03 | | [regulation of vasculature development](http://amigo.geneontology.org/amigo/term/GO:1901342) | [292](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901342&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901342&list=upload_1&organism=Homo%20sapiens) | 6.42 | 3.27 | + | 4.81E-06 | 2.75E-04 | | [regulation of angiogenesis](http://amigo.geneontology.org/amigo/term/GO:0045765) | [288](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045765&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045765&list=upload_1&organism=Homo%20sapiens) | 6.34 | 3.31 | + | 3.94E-06 | 2.30E-04 | | [positive regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901216) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901216&list=upload_1&organism=Homo%20sapiens) | 2.05 | 4.40 | + | 3.59E-04 | 1.11E-02 | | [regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901214) | [325](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901214&list=upload_1&organism=Homo%20sapiens) | 7.15 | 3.78 | + | 1.37E-08 | 1.20E-06 | | [ventricular septum development](http://amigo.geneontology.org/amigo/term/GO:0003281) | [73](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003281&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003281&list=upload_1&organism=Homo%20sapiens) | 1.61 | 4.36 | + | 1.68E-03 | 3.89E-02 | | [positive regulation of protein kinase B signaling](http://amigo.geneontology.org/amigo/term/GO:0051897) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051897&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051897&list=upload_1&organism=Homo%20sapiens) | 2.55 | 4.31 | + | 9.65E-05 | 3.80E-03 | | [regulation of protein kinase B signaling](http://amigo.geneontology.org/amigo/term/GO:0051896) | [170](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051896&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051896&list=upload_1&organism=Homo%20sapiens) | 3.74 | 4.81 | + | 1.42E-07 | 1.09E-05 | | [adult locomotory behavior](http://amigo.geneontology.org/amigo/term/GO:0008344) | [85](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008344&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008344&list=upload_1&organism=Homo%20sapiens) | 1.87 | 4.28 | + | 8.94E-04 | 2.34E-02 | | [behavior](http://amigo.geneontology.org/amigo/term/GO:0007610) | [606](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007610&list=upload_1&organism=Homo%20sapiens) | 13.33 | 2.18 | + | 1.41E-04 | 5.17E-03 | | [adult behavior](http://amigo.geneontology.org/amigo/term/GO:0030534) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030534&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030534&list=upload_1&organism=Homo%20sapiens) | 3.26 | 3.69 | + | 1.87E-04 | 6.51E-03 | | [cellular response to reactive oxygen species](http://amigo.geneontology.org/amigo/term/GO:0034614) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034614&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034614&list=upload_1&organism=Homo%20sapiens) | 2.57 | 4.27 | + | 1.04E-04 | 4.06E-03 | | [response to reactive oxygen species](http://amigo.geneontology.org/amigo/term/GO:0000302) | [167](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000302&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000302&list=upload_1&organism=Homo%20sapiens) | 3.67 | 2.99 | + | 1.70E-03 | 3.93E-02 | | [negative regulation of G1/S transition of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:2000134) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000134&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000134&list=upload_1&organism=Homo%20sapiens) | 1.65 | 4.24 | + | 1.94E-03 | 4.40E-02 | | [regulation of cell cycle process](http://amigo.geneontology.org/amigo/term/GO:0010564) | [715](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010564&list=upload_1&organism=Homo%20sapiens) | 15.73 | 1.97 | + | 4.63E-04 | 1.38E-02 | | [regulation of cell cycle](http://amigo.geneontology.org/amigo/term/GO:0051726) | [1122](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051726&list=upload_1&organism=Homo%20sapiens) | 24.69 | 2.07 | + | 2.06E-06 | 1.27E-04 | | [regulation of mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0007346) | [493](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007346&list=upload_1&organism=Homo%20sapiens) | 10.85 | 2.21 | + | 5.27E-04 | 1.53E-02 | | [outflow tract morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0003151) | [75](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003151&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0003151&list=upload_1&organism=Homo%20sapiens) | 1.65 | 4.24 | + | 1.94E-03 | 4.40E-02 | | [viral entry into host cell](http://amigo.geneontology.org/amigo/term/GO:0046718) | [108](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046718&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046718&list=upload_1&organism=Homo%20sapiens) | 2.38 | 4.21 | + | 2.38E-04 | 8.07E-03 | | [viral life cycle](http://amigo.geneontology.org/amigo/term/GO:0019058) | [178](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019058&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019058&list=upload_1&organism=Homo%20sapiens) | 3.92 | 4.09 | + | 5.01E-06 | 2.85E-04 | | [viral process](http://amigo.geneontology.org/amigo/term/GO:0016032) | [251](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016032&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016032&list=upload_1&organism=Homo%20sapiens) | 5.52 | 3.26 | + | 2.36E-05 | 1.15E-03 | | [entry into host](http://amigo.geneontology.org/amigo/term/GO:0044409) | [110](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044409&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044409&list=upload_1&organism=Homo%20sapiens) | 2.42 | 4.13 | + | 2.73E-04 | 8.95E-03 | | [movement in host](http://amigo.geneontology.org/amigo/term/GO:0044000) | [139](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044000&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044000&list=upload_1&organism=Homo%20sapiens) | 3.06 | 3.92 | + | 1.08E-04 | 4.19E-03 | | [biological process involved in interaction with host](http://amigo.geneontology.org/amigo/term/GO:0051701) | [156](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051701&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051701&list=upload_1&organism=Homo%20sapiens) | 3.43 | 3.79 | + | 7.87E-05 | 3.27E-03 | | [biological process involved in symbiotic interaction](http://amigo.geneontology.org/amigo/term/GO:0044403) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044403&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044403&list=upload_1&organism=Homo%20sapiens) | 5.74 | 3.13 | + | 3.82E-05 | 1.76E-03 | | [biological process involved in interspecies interaction between organisms](http://amigo.geneontology.org/amigo/term/GO:0044419) | [1602](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044419&list=upload_1&organism=Homo%20sapiens) | 35.25 | 1.87 | + | 1.50E-06 | 9.52E-05 | | [response to ethanol](http://amigo.geneontology.org/amigo/term/GO:0045471) | [130](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045471&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045471&list=upload_1&organism=Homo%20sapiens) | 2.86 | 4.20 | + | 5.97E-05 | 2.59E-03 | | [cellular response to glucose stimulus](http://amigo.geneontology.org/amigo/term/GO:0071333) | [77](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071333&reflist=1) | [7](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071333&list=upload_1&organism=Homo%20sapiens) | 1.69 | 4.13 | + | 2.23E-03 | 4.93E-02 | | [cellular response to carbohydrate stimulus](http://amigo.geneontology.org/amigo/term/GO:0071322) | [93](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071322&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071322&list=upload_1&organism=Homo%20sapiens) | 2.05 | 4.89 | + | 7.66E-05 | 3.20E-03 | | [response to carbohydrate](http://amigo.geneontology.org/amigo/term/GO:0009743) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009743&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009743&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.26 | + | 3.11E-04 | 1.00E-02 | | [negative regulation of neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043524) | [155](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043524&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043524&list=upload_1&organism=Homo%20sapiens) | 3.41 | 4.11 | + | 1.85E-05 | 9.32E-04 | | [regulation of neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043523) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043523&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043523&list=upload_1&organism=Homo%20sapiens) | 4.80 | 3.75 | + | 3.94E-06 | 2.29E-04 | | [negative regulation of neuron death](http://amigo.geneontology.org/amigo/term/GO:1901215) | [220](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901215&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1901215&list=upload_1&organism=Homo%20sapiens) | 4.84 | 4.34 | + | 6.68E-08 | 5.29E-06 | | [response to alkaloid](http://amigo.geneontology.org/amigo/term/GO:0043279) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043279&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043279&list=upload_1&organism=Homo%20sapiens) | 2.20 | 4.09 | + | 5.85E-04 | 1.65E-02 | | [positive regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0032092) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032092&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032092&list=upload_1&organism=Homo%20sapiens) | 1.96 | 4.09 | + | 1.18E-03 | 2.89E-02 | | [positive regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051099) | [181](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051099&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051099&list=upload_1&organism=Homo%20sapiens) | 3.98 | 3.26 | + | 3.11E-04 | 9.98E-03 | | [regulation of binding](http://amigo.geneontology.org/amigo/term/GO:0051098) | [374](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051098&list=upload_1&organism=Homo%20sapiens) | 8.23 | 2.92 | + | 6.43E-06 | 3.59E-04 | | [regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0043393) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043393&list=upload_1&organism=Homo%20sapiens) | 4.42 | 3.62 | + | 2.05E-05 | 1.02E-03 | | [regulation of organ growth](http://amigo.geneontology.org/amigo/term/GO:0046620) | [89](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046620&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046620&list=upload_1&organism=Homo%20sapiens) | 1.96 | 4.09 | + | 1.18E-03 | 2.88E-02 | | [myeloid leukocyte differentiation](http://amigo.geneontology.org/amigo/term/GO:0002573) | [134](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002573&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002573&list=upload_1&organism=Homo%20sapiens) | 2.95 | 4.07 | + | 7.82E-05 | 3.26E-03 | | [myeloid cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0030099) | [264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030099&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030099&list=upload_1&organism=Homo%20sapiens) | 5.81 | 3.10 | + | 4.40E-05 | 1.96E-03 | | [positive regulation of cysteine-type endopeptidase activity involved in apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043280) | [129](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043280&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043280&list=upload_1&organism=Homo%20sapiens) | 2.84 | 3.88 | + | 2.29E-04 | 7.80E-03 | | [regulation of cysteine-type endopeptidase activity involved in apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0043281) | [208](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043281&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043281&list=upload_1&organism=Homo%20sapiens) | 4.58 | 3.93 | + | 2.14E-06 | 1.31E-04 | | [regulation of cysteine-type endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:2000116) | [239](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000116&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000116&list=upload_1&organism=Homo%20sapiens) | 5.26 | 3.42 | + | 1.28E-05 | 6.69E-04 | | [positive regulation of cysteine-type endopeptidase activity](http://amigo.geneontology.org/amigo/term/GO:2001056) | [148](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001056&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001056&list=upload_1&organism=Homo%20sapiens) | 3.26 | 3.38 | + | 6.79E-04 | 1.87E-02 | | [neural crest cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0014033) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014033&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0014033&list=upload_1&organism=Homo%20sapiens) | 2.07 | 3.87 | + | 1.63E-03 | 3.81E-02 | | [stem cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0048863) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048863&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048863&list=upload_1&organism=Homo%20sapiens) | 4.03 | 2.98 | + | 1.11E-03 | 2.76E-02 | | [neuron apoptotic process](http://amigo.geneontology.org/amigo/term/GO:0051402) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051402&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051402&list=upload_1&organism=Homo%20sapiens) | 2.07 | 3.87 | + | 1.63E-03 | 3.81E-02 | | [negative regulation of protein binding](http://amigo.geneontology.org/amigo/term/GO:0032091) | [94](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032091&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032091&list=upload_1&organism=Homo%20sapiens) | 2.07 | 3.87 | + | 1.63E-03 | 3.80E-02 | | [negative regulation of molecular function](http://amigo.geneontology.org/amigo/term/GO:0044092) | [1150](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&reflist=1) | [47](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044092&list=upload_1&organism=Homo%20sapiens) | 25.30 | 1.86 | + | 7.87E-05 | 3.26E-03 | | [regulation of proteasomal ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0032434) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032434&list=upload_1&organism=Homo%20sapiens) | 3.12 | 3.84 | + | 1.30E-04 | 4.86E-03 | | [regulation of ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:2000058) | [172](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000058&list=upload_1&organism=Homo%20sapiens) | 3.78 | 3.96 | + | 1.38E-05 | 7.15E-04 | | [regulation of cellular catabolic process](http://amigo.geneontology.org/amigo/term/GO:0031329) | [786](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031329&list=upload_1&organism=Homo%20sapiens) | 17.29 | 2.26 | + | 6.21E-06 | 3.48E-04 | | [regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009894) | [987](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009894&list=upload_1&organism=Homo%20sapiens) | 21.72 | 2.26 | + | 2.41E-07 | 1.80E-05 | | [regulation of proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:1903050) | [228](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903050&list=upload_1&organism=Homo%20sapiens) | 5.02 | 3.99 | + | 4.79E-07 | 3.38E-05 | | [regulation of proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0061136) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0061136&list=upload_1&organism=Homo%20sapiens) | 4.27 | 3.51 | + | 5.06E-05 | 2.23E-03 | | [regulation of protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0042176) | [367](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042176&list=upload_1&organism=Homo%20sapiens) | 8.07 | 2.72 | + | 4.13E-05 | 1.88E-03 | | [regulation of smooth muscle cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0048660) | [142](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048660&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048660&list=upload_1&organism=Homo%20sapiens) | 3.12 | 3.84 | + | 1.30E-04 | 4.85E-03 | | [regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0042127) | [1674](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&reflist=1) | [84](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042127&list=upload_1&organism=Homo%20sapiens) | 36.83 | 2.28 | + | 3.18E-12 | 4.05E-10 | | [regulation of generation of precursor metabolites and energy](http://amigo.geneontology.org/amigo/term/GO:0043467) | [132](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043467&list=upload_1&organism=Homo%20sapiens) | 2.90 | 3.79 | + | 2.76E-04 | 9.01E-03 | | [negative regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001237) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001237&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001237&list=upload_1&organism=Homo%20sapiens) | 2.16 | 3.71 | + | 2.08E-03 | 4.67E-02 | | [negative regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001234) | [229](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001234&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001234&list=upload_1&organism=Homo%20sapiens) | 5.04 | 2.98 | + | 2.81E-04 | 9.17E-03 | | [regulation of apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001233) | [364](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001233&list=upload_1&organism=Homo%20sapiens) | 8.01 | 2.50 | + | 2.73E-04 | 8.95E-03 | | [regulation of extrinsic apoptotic signaling pathway](http://amigo.geneontology.org/amigo/term/GO:2001236) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2001236&list=upload_1&organism=Homo%20sapiens) | 3.39 | 3.84 | + | 6.97E-05 | 2.93E-03 | | [hair cycle](http://amigo.geneontology.org/amigo/term/GO:0042633) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042633&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042633&list=upload_1&organism=Homo%20sapiens) | 2.16 | 3.71 | + | 2.08E-03 | 4.66E-02 | | [molting cycle](http://amigo.geneontology.org/amigo/term/GO:0042303) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042303&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042303&list=upload_1&organism=Homo%20sapiens) | 2.16 | 3.71 | + | 2.08E-03 | 4.66E-02 | | [regulation of epithelial cell apoptotic process](http://amigo.geneontology.org/amigo/term/GO:1904035) | [98](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904035&reflist=1) | [8](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904035&list=upload_1&organism=Homo%20sapiens) | 2.16 | 3.71 | + | 2.08E-03 | 4.65E-02 | | [positive regulation of epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050679) | [209](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050679&list=upload_1&organism=Homo%20sapiens) | 4.60 | 3.70 | + | 8.76E-06 | 4.71E-04 | | [regulation of epithelial cell proliferation](http://amigo.geneontology.org/amigo/term/GO:0050678) | [369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050678&list=upload_1&organism=Homo%20sapiens) | 8.12 | 2.46 | + | 5.17E-04 | 1.51E-02 | | [positive regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008284) | [949](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008284&list=upload_1&organism=Homo%20sapiens) | 20.88 | 2.44 | + | 1.56E-08 | 1.35E-06 | | [regulation of synapse organization](http://amigo.geneontology.org/amigo/term/GO:0050807) | [210](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050807&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050807&list=upload_1&organism=Homo%20sapiens) | 4.62 | 3.68 | + | 9.29E-06 | 4.90E-04 | | [regulation of synapse structure or activity](http://amigo.geneontology.org/amigo/term/GO:0050803) | [216](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050803&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050803&list=upload_1&organism=Homo%20sapiens) | 4.75 | 3.79 | + | 3.50E-06 | 2.07E-04 | | [regulation of muscle cell differentiation](http://amigo.geneontology.org/amigo/term/GO:0051147) | [136](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051147&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051147&list=upload_1&organism=Homo%20sapiens) | 2.99 | 3.68 | + | 3.50E-04 | 1.09E-02 | | [kidney epithelium development](http://amigo.geneontology.org/amigo/term/GO:0072073) | [137](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072073&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0072073&list=upload_1&organism=Homo%20sapiens) | 3.01 | 3.65 | + | 3.71E-04 | 1.14E-02 | | [regulation of JNK cascade](http://amigo.geneontology.org/amigo/term/GO:0046328) | [140](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046328&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0046328&list=upload_1&organism=Homo%20sapiens) | 3.08 | 3.57 | + | 4.40E-04 | 1.32E-02 | | [regulation of stress-activated MAPK cascade](http://amigo.geneontology.org/amigo/term/GO:0032872) | [190](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032872&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032872&list=upload_1&organism=Homo%20sapiens) | 4.18 | 3.35 | + | 1.44E-04 | 5.24E-03 | | [regulation of stress-activated protein kinase signaling cascade](http://amigo.geneontology.org/amigo/term/GO:0070302) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070302&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070302&list=upload_1&organism=Homo%20sapiens) | 4.25 | 3.30 | + | 1.68E-04 | 5.94E-03 | | [regulation of cyclin-dependent protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0000079) | [115](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000079&list=upload_1&organism=Homo%20sapiens) | 2.53 | 3.56 | + | 1.47E-03 | 3.47E-02 | | [regulation of cyclin-dependent protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:1904029) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904029&list=upload_1&organism=Homo%20sapiens) | 2.60 | 3.85 | + | 4.58E-04 | 1.37E-02 | | [regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0045859) | [668](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&reflist=1) | [46](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045859&list=upload_1&organism=Homo%20sapiens) | 14.70 | 3.13 | + | 3.75E-11 | 4.32E-09 | | [regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043549) | [783](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&reflist=1) | [66](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043549&list=upload_1&organism=Homo%20sapiens) | 17.23 | 3.83 | + | 9.17E-20 | 3.69E-17 | | [regulation of protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0071900) | [391](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071900&list=upload_1&organism=Homo%20sapiens) | 8.60 | 3.37 | + | 4.06E-08 | 3.33E-06 | | [Ras protein signal transduction](http://amigo.geneontology.org/amigo/term/GO:0007265) | [194](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007265&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007265&list=upload_1&organism=Homo%20sapiens) | 4.27 | 3.51 | + | 5.06E-05 | 2.24E-03 | | [small GTPase mediated signal transduction](http://amigo.geneontology.org/amigo/term/GO:0007264) | [270](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007264&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007264&list=upload_1&organism=Homo%20sapiens) | 5.94 | 2.53 | + | 1.39E-03 | 3.33E-02 | | [positive regulation of MAP kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043406) | [117](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043406&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043406&list=upload_1&organism=Homo%20sapiens) | 2.57 | 3.50 | + | 1.64E-03 | 3.82E-02 | | [positive regulation of protein serine/threonine kinase activity](http://amigo.geneontology.org/amigo/term/GO:0071902) | [232](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071902&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071902&list=upload_1&organism=Homo%20sapiens) | 5.10 | 3.33 | + | 3.07E-05 | 1.45E-03 | | [positive regulation of protein kinase activity](http://amigo.geneontology.org/amigo/term/GO:0045860) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045860&list=upload_1&organism=Homo%20sapiens) | 9.28 | 3.23 | + | 5.68E-08 | 4.57E-06 | | [positive regulation of kinase activity](http://amigo.geneontology.org/amigo/term/GO:0033674) | [499](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033674&list=upload_1&organism=Homo%20sapiens) | 10.98 | 4.55 | + | 6.23E-18 | 1.95E-15 | | [regulation of MAP kinase activity](http://amigo.geneontology.org/amigo/term/GO:0043405) | [184](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043405&list=upload_1&organism=Homo%20sapiens) | 4.05 | 3.46 | + | 1.05E-04 | 4.10E-03 | | [positive regulation of transmembrane receptor protein serine/threonine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0090100) | [118](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090100&reflist=1) | [9](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090100&list=upload_1&organism=Homo%20sapiens) | 2.60 | 3.47 | + | 1.73E-03 | 4.00E-02 | | [regulation of transmembrane receptor protein serine/threonine kinase signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0090092) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090092&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090092&list=upload_1&organism=Homo%20sapiens) | 6.05 | 2.48 | + | 1.65E-03 | 3.84E-02 | | [positive regulation of GTPase activity](http://amigo.geneontology.org/amigo/term/GO:0043547) | [286](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043547&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043547&list=upload_1&organism=Homo%20sapiens) | 6.29 | 3.34 | + | 3.56E-06 | 2.10E-04 | | [regulation of GTPase activity](http://amigo.geneontology.org/amigo/term/GO:0043087) | [378](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043087&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043087&list=upload_1&organism=Homo%20sapiens) | 8.32 | 3.49 | + | 2.04E-08 | 1.74E-06 | | [protein stabilization](http://amigo.geneontology.org/amigo/term/GO:0050821) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050821&list=upload_1&organism=Homo%20sapiens) | 4.80 | 3.34 | + | 5.14E-05 | 2.26E-03 | | [regulation of protein stability](http://amigo.geneontology.org/amigo/term/GO:0031647) | [333](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031647&list=upload_1&organism=Homo%20sapiens) | 7.33 | 3.41 | + | 2.87E-07 | 2.12E-05 | | [positive regulation of peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0050731) | [193](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050731&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050731&list=upload_1&organism=Homo%20sapiens) | 4.25 | 3.30 | + | 1.68E-04 | 5.96E-03 | | [regulation of peptidyl-tyrosine phosphorylation](http://amigo.geneontology.org/amigo/term/GO:0050730) | [261](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050730&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050730&list=upload_1&organism=Homo%20sapiens) | 5.74 | 2.79 | + | 3.58E-04 | 1.11E-02 | | [regulation of mitochondrion organization](http://amigo.geneontology.org/amigo/term/GO:0010821) | [152](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010821&list=upload_1&organism=Homo%20sapiens) | 3.34 | 3.29 | + | 8.34E-04 | 2.24E-02 | | [cellular response to transforming growth factor beta stimulus](http://amigo.geneontology.org/amigo/term/GO:0071560) | [154](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071560&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071560&list=upload_1&organism=Homo%20sapiens) | 3.39 | 3.25 | + | 9.22E-04 | 2.40E-02 | | [response to transforming growth factor beta](http://amigo.geneontology.org/amigo/term/GO:0071559) | [161](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071559&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071559&list=upload_1&organism=Homo%20sapiens) | 3.54 | 3.11 | + | 1.29E-03 | 3.14E-02 | | [positive regulation of neuron projection development](http://amigo.geneontology.org/amigo/term/GO:0010976) | [155](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010976&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010976&list=upload_1&organism=Homo%20sapiens) | 3.41 | 3.23 | + | 9.69E-04 | 2.50E-02 | | [positive regulation of cell projection organization](http://amigo.geneontology.org/amigo/term/GO:0031346) | [351](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031346&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031346&list=upload_1&organism=Homo%20sapiens) | 7.72 | 3.11 | + | 2.32E-06 | 1.42E-04 | | [ameboidal-type cell migration](http://amigo.geneontology.org/amigo/term/GO:0001667) | [201](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001667&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001667&list=upload_1&organism=Homo%20sapiens) | 4.42 | 3.17 | + | 2.48E-04 | 8.31E-03 | | [positive regulation of cell migration](http://amigo.geneontology.org/amigo/term/GO:0030335) | [532](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030335&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030335&list=upload_1&organism=Homo%20sapiens) | 11.71 | 3.16 | + | 2.66E-09 | 2.53E-07 | | [positive regulation of cell motility](http://amigo.geneontology.org/amigo/term/GO:2000147) | [558](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000147&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:2000147&list=upload_1&organism=Homo%20sapiens) | 12.28 | 3.10 | + | 2.76E-09 | 2.60E-07 | | [positive regulation of locomotion](http://amigo.geneontology.org/amigo/term/GO:0040017) | [574](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040017&reflist=1) | [39](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0040017&list=upload_1&organism=Homo%20sapiens) | 12.63 | 3.09 | + | 1.80E-09 | 1.74E-07 | | [mitotic cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:0044772) | [173](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044772&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044772&list=upload_1&organism=Homo%20sapiens) | 3.81 | 3.15 | + | 6.99E-04 | 1.92E-02 | | [mitotic cell cycle](http://amigo.geneontology.org/amigo/term/GO:0000278) | [627](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0000278&list=upload_1&organism=Homo%20sapiens) | 13.80 | 2.03 | + | 5.51E-04 | 1.59E-02 | | [cell cycle phase transition](http://amigo.geneontology.org/amigo/term/GO:0044770) | [183](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044770&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044770&list=upload_1&organism=Homo%20sapiens) | 4.03 | 2.98 | + | 1.11E-03 | 2.77E-02 | | [response to tumor necrosis factor](http://amigo.geneontology.org/amigo/term/GO:0034612) | [202](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034612&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034612&list=upload_1&organism=Homo%20sapiens) | 4.44 | 3.15 | + | 2.60E-04 | 8.61E-03 | | [response to cytokine](http://amigo.geneontology.org/amigo/term/GO:0034097) | [808](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034097&list=upload_1&organism=Homo%20sapiens) | 17.78 | 2.31 | + | 1.45E-06 | 9.29E-05 | | [positive regulation of intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0090316) | [160](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090316&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090316&list=upload_1&organism=Homo%20sapiens) | 3.52 | 3.12 | + | 1.23E-03 | 3.00E-02 | | [positive regulation of transport](http://amigo.geneontology.org/amigo/term/GO:0051050) | [919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051050&list=upload_1&organism=Homo%20sapiens) | 20.22 | 1.83 | + | 5.57E-04 | 1.59E-02 | | [positive regulation of intracellular transport](http://amigo.geneontology.org/amigo/term/GO:0032388) | [203](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032388&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032388&list=upload_1&organism=Homo%20sapiens) | 4.47 | 2.91 | + | 8.57E-04 | 2.28E-02 | | [positive regulation of small molecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0062013) | [147](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&reflist=1) | [10](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0062013&list=upload_1&organism=Homo%20sapiens) | 3.23 | 3.09 | + | 2.18E-03 | 4.84E-02 | | [synapse organization](http://amigo.geneontology.org/amigo/term/GO:0050808) | [301](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050808&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050808&list=upload_1&organism=Homo%20sapiens) | 6.62 | 3.02 | + | 2.37E-05 | 1.15E-03 | | [cellular response to radiation](http://amigo.geneontology.org/amigo/term/GO:0071478) | [182](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071478&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071478&list=upload_1&organism=Homo%20sapiens) | 4.00 | 3.00 | + | 1.06E-03 | 2.66E-02 | | [cellular response to abiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0071214) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071214&list=upload_1&organism=Homo%20sapiens) | 7.17 | 2.79 | + | 6.79E-05 | 2.87E-03 | | [cellular response to environmental stimulus](http://amigo.geneontology.org/amigo/term/GO:0104004) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0104004&list=upload_1&organism=Homo%20sapiens) | 7.17 | 2.79 | + | 6.79E-05 | 2.86E-03 | | [angiogenesis](http://amigo.geneontology.org/amigo/term/GO:0001525) | [327](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001525&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001525&list=upload_1&organism=Homo%20sapiens) | 7.19 | 2.92 | + | 2.40E-05 | 1.16E-03 | | [blood vessel morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0048514) | [421](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048514&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0048514&list=upload_1&organism=Homo%20sapiens) | 9.26 | 2.59 | + | 3.99E-05 | 1.82E-03 | | [regulation of cell-substrate adhesion](http://amigo.geneontology.org/amigo/term/GO:0010810) | [219](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010810&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010810&list=upload_1&organism=Homo%20sapiens) | 4.82 | 2.91 | + | 5.58E-04 | 1.59E-02 | | [regulation of cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0030155) | [789](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&reflist=1) | [50](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0030155&list=upload_1&organism=Homo%20sapiens) | 17.36 | 2.88 | + | 8.04E-11 | 9.07E-09 | | [proteasome-mediated ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0043161) | [347](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&reflist=1) | [22](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043161&list=upload_1&organism=Homo%20sapiens) | 7.63 | 2.88 | + | 1.85E-05 | 9.32E-04 | | [ubiquitin-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0006511) | [575](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006511&list=upload_1&organism=Homo%20sapiens) | 12.65 | 2.21 | + | 1.52E-04 | 5.49E-03 | | [modification-dependent protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0019941) | [586](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0019941&list=upload_1&organism=Homo%20sapiens) | 12.89 | 2.17 | + | 1.92E-04 | 6.63E-03 | | [modification-dependent macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0043632) | [598](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043632&list=upload_1&organism=Homo%20sapiens) | 13.16 | 2.13 | + | 3.50E-04 | 1.09E-02 | | [cellular macromolecule catabolic process](http://amigo.geneontology.org/amigo/term/GO:0044265) | [785](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&reflist=1) | [33](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0044265&list=upload_1&organism=Homo%20sapiens) | 17.27 | 1.91 | + | 5.21E-04 | 1.51E-02 | | [proteolysis involved in protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0051603) | [647](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051603&list=upload_1&organism=Homo%20sapiens) | 14.24 | 2.18 | + | 1.16E-04 | 4.41E-03 | | [proteasomal protein catabolic process](http://amigo.geneontology.org/amigo/term/GO:0010498) | [378](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010498&list=upload_1&organism=Homo%20sapiens) | 8.32 | 2.89 | + | 7.60E-06 | 4.14E-04 | | [regulation of microtubule-based process](http://amigo.geneontology.org/amigo/term/GO:0032886) | [260](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032886&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032886&list=upload_1&organism=Homo%20sapiens) | 5.72 | 2.80 | + | 3.44E-04 | 1.08E-02 | | [sensory organ morphogenesis](http://amigo.geneontology.org/amigo/term/GO:0090596) | [279](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090596&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090596&list=upload_1&organism=Homo%20sapiens) | 6.14 | 2.77 | + | 2.53E-04 | 8.43E-03 | | [sensory organ development](http://amigo.geneontology.org/amigo/term/GO:0007423) | [582](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007423&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007423&list=upload_1&organism=Homo%20sapiens) | 12.81 | 2.11 | + | 5.08E-04 | 1.49E-02 | | [positive regulation of neurogenesis](http://amigo.geneontology.org/amigo/term/GO:0050769) | [231](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050769&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050769&list=upload_1&organism=Homo%20sapiens) | 5.08 | 2.75 | + | 9.12E-04 | 2.38E-02 | | [positive regulation of nervous system development](http://amigo.geneontology.org/amigo/term/GO:0051962) | [279](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051962&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051962&list=upload_1&organism=Homo%20sapiens) | 6.14 | 2.77 | + | 2.53E-04 | 8.45E-03 | | [regulation of cellular response to growth factor stimulus](http://amigo.geneontology.org/amigo/term/GO:0090287) | [314](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090287&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0090287&list=upload_1&organism=Homo%20sapiens) | 6.91 | 2.75 | + | 1.22E-04 | 4.59E-03 | | [cellular response to metal ion](http://amigo.geneontology.org/amigo/term/GO:0071248) | [200](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071248&reflist=1) | [12](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071248&list=upload_1&organism=Homo%20sapiens) | 4.40 | 2.73 | + | 2.24E-03 | 4.95E-02 | | [response to mechanical stimulus](http://amigo.geneontology.org/amigo/term/GO:0009612) | [218](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009612&reflist=1) | [13](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009612&list=upload_1&organism=Homo%20sapiens) | 4.80 | 2.71 | + | 1.57E-03 | 3.70E-02 | | [wound healing](http://amigo.geneontology.org/amigo/term/GO:0042060) | [338](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042060&reflist=1) | [20](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0042060&list=upload_1&organism=Homo%20sapiens) | 7.44 | 2.69 | + | 1.08E-04 | 4.18E-03 | | [response to wounding](http://amigo.geneontology.org/amigo/term/GO:0009611) | [447](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009611&list=upload_1&organism=Homo%20sapiens) | 9.83 | 2.64 | + | 1.38E-05 | 7.13E-04 | | [negative regulation of cell population proliferation](http://amigo.geneontology.org/amigo/term/GO:0008285) | [713](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008285&reflist=1) | [41](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008285&list=upload_1&organism=Homo%20sapiens) | 15.69 | 2.61 | + | 5.87E-08 | 4.70E-06 | | [response to xenobiotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009410) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009410&list=upload_1&organism=Homo%20sapiens) | 9.31 | 2.58 | + | 4.28E-05 | 1.92E-03 | | [Wnt signaling pathway](http://amigo.geneontology.org/amigo/term/GO:0016055) | [285](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016055&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0016055&list=upload_1&organism=Homo%20sapiens) | 6.27 | 2.55 | + | 8.79E-04 | 2.31E-02 | | [cell surface receptor signaling pathway involved in cell-cell signaling](http://amigo.geneontology.org/amigo/term/GO:1905114) | [383](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905114&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1905114&list=upload_1&organism=Homo%20sapiens) | 8.43 | 2.49 | + | 1.99E-04 | 6.83E-03 | | [cell-cell signaling](http://amigo.geneontology.org/amigo/term/GO:0007267) | [1083](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007267&list=upload_1&organism=Homo%20sapiens) | 23.83 | 2.14 | + | 7.67E-07 | 5.16E-05 | | [cell-cell signaling by wnt](http://amigo.geneontology.org/amigo/term/GO:0198738) | [285](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0198738&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0198738&list=upload_1&organism=Homo%20sapiens) | 6.27 | 2.55 | + | 8.79E-04 | 2.32E-02 | | [cell fate commitment](http://amigo.geneontology.org/amigo/term/GO:0045165) | [250](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045165&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045165&list=upload_1&organism=Homo%20sapiens) | 5.50 | 2.55 | + | 1.85E-03 | 4.24E-02 | | [skin development](http://amigo.geneontology.org/amigo/term/GO:0043588) | [268](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043588&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043588&list=upload_1&organism=Homo%20sapiens) | 5.90 | 2.54 | + | 1.30E-03 | 3.14E-02 | | [chemical synaptic transmission](http://amigo.geneontology.org/amigo/term/GO:0007268) | [414](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007268&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007268&list=upload_1&organism=Homo%20sapiens) | 9.11 | 2.53 | + | 8.32E-05 | 3.39E-03 | | [anterograde trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0098916) | [414](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098916&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0098916&list=upload_1&organism=Homo%20sapiens) | 9.11 | 2.53 | + | 8.32E-05 | 3.38E-03 | | [trans-synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099537) | [431](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099537&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099537&list=upload_1&organism=Homo%20sapiens) | 9.48 | 2.64 | + | 2.10E-05 | 1.04E-03 | | [synaptic signaling](http://amigo.geneontology.org/amigo/term/GO:0099536) | [461](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099536&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0099536&list=upload_1&organism=Homo%20sapiens) | 10.14 | 2.46 | + | 8.21E-05 | 3.35E-03 | | [positive regulation of T cell activation](http://amigo.geneontology.org/amigo/term/GO:0050870) | [253](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050870&reflist=1) | [14](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050870&list=upload_1&organism=Homo%20sapiens) | 5.57 | 2.52 | + | 2.05E-03 | 4.62E-02 | | [positive regulation of leukocyte cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:1903039) | [276](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903039&reflist=1) | [16](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903039&list=upload_1&organism=Homo%20sapiens) | 6.07 | 2.63 | + | 6.36E-04 | 1.77E-02 | | [regulation of leukocyte cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:1903037) | [369](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903037&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1903037&list=upload_1&organism=Homo%20sapiens) | 8.12 | 2.22 | + | 2.16E-03 | 4.80E-02 | | [regulation of cell-cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0022407) | [484](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022407&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0022407&list=upload_1&organism=Homo%20sapiens) | 10.65 | 2.16 | + | 8.67E-04 | 2.30E-02 | | [positive regulation of cell adhesion](http://amigo.geneontology.org/amigo/term/GO:0045785) | [488](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045785&reflist=1) | [31](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045785&list=upload_1&organism=Homo%20sapiens) | 10.74 | 2.89 | + | 3.53E-07 | 2.58E-05 | | [positive regulation of lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0051251) | [421](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051251&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051251&list=upload_1&organism=Homo%20sapiens) | 9.26 | 2.27 | + | 7.11E-04 | 1.95E-02 | | [positive regulation of leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0002696) | [469](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002696&reflist=1) | [23](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002696&list=upload_1&organism=Homo%20sapiens) | 10.32 | 2.23 | + | 6.97E-04 | 1.91E-02 | | [positive regulation of immune system process](http://amigo.geneontology.org/amigo/term/GO:0002684) | [967](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002684&reflist=1) | [38](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002684&list=upload_1&organism=Homo%20sapiens) | 21.28 | 1.79 | + | 7.51E-04 | 2.04E-02 | | [regulation of immune system process](http://amigo.geneontology.org/amigo/term/GO:0002682) | [1520](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&reflist=1) | [57](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002682&list=upload_1&organism=Homo%20sapiens) | 33.44 | 1.70 | + | 1.31E-04 | 4.86E-03 | | [positive regulation of cell activation](http://amigo.geneontology.org/amigo/term/GO:0050867) | [486](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050867&reflist=1) | [24](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050867&list=upload_1&organism=Homo%20sapiens) | 10.69 | 2.24 | + | 4.80E-04 | 1.43E-02 | | [regulation of cell activation](http://amigo.geneontology.org/amigo/term/GO:0050865) | [741](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050865&reflist=1) | [35](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050865&list=upload_1&organism=Homo%20sapiens) | 16.30 | 2.15 | + | 3.97E-05 | 1.82E-03 | | [regulation of leukocyte activation](http://amigo.geneontology.org/amigo/term/GO:0002694) | [684](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002694&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002694&list=upload_1&organism=Homo%20sapiens) | 15.05 | 2.13 | + | 1.07E-04 | 4.16E-03 | | [regulation of lymphocyte activation](http://amigo.geneontology.org/amigo/term/GO:0051249) | [591](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051249&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051249&list=upload_1&organism=Homo%20sapiens) | 13.00 | 2.15 | + | 3.27E-04 | 1.03E-02 | | [regulation of T cell activation](http://amigo.geneontology.org/amigo/term/GO:0050863) | [377](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050863&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050863&list=upload_1&organism=Homo%20sapiens) | 8.29 | 2.29 | + | 1.20E-03 | 2.93E-02 | | [negative regulation of catabolic process](http://amigo.geneontology.org/amigo/term/GO:0009895) | [326](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009895&list=upload_1&organism=Homo%20sapiens) | 7.17 | 2.51 | + | 5.16E-04 | 1.51E-02 | | [negative regulation of metabolic process](http://amigo.geneontology.org/amigo/term/GO:0009892) | [2988](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&reflist=1) | [109](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009892&list=upload_1&organism=Homo%20sapiens) | 65.74 | 1.66 | + | 1.31E-07 | 1.02E-05 | | [learning or memory](http://amigo.geneontology.org/amigo/term/GO:0007611) | [275](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007611&reflist=1) | [15](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0007611&list=upload_1&organism=Homo%20sapiens) | 6.05 | 2.48 | + | 1.65E-03 | 3.83E-02 | | [response to lipopolysaccharide](http://amigo.geneontology.org/amigo/term/GO:0032496) | [313](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032496&reflist=1) | [17](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0032496&list=upload_1&organism=Homo%20sapiens) | 6.89 | 2.47 | + | 8.69E-04 | 2.30E-02 | | [response to molecule of bacterial origin](http://amigo.geneontology.org/amigo/term/GO:0002237) | [331](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002237&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0002237&list=upload_1&organism=Homo%20sapiens) | 7.28 | 2.47 | + | 6.11E-04 | 1.71E-02 | | [response to external biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0043207) | [1432](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043207&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043207&list=upload_1&organism=Homo%20sapiens) | 31.51 | 1.71 | + | 1.81E-04 | 6.31E-03 | | [response to biotic stimulus](http://amigo.geneontology.org/amigo/term/GO:0009607) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&reflist=1) | [55](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009607&list=upload_1&organism=Homo%20sapiens) | 32.52 | 1.69 | + | 2.25E-04 | 7.67E-03 | | [response to bacterium](http://amigo.geneontology.org/amigo/term/GO:0009617) | [754](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009617&reflist=1) | [34](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0009617&list=upload_1&organism=Homo%20sapiens) | 16.59 | 2.05 | + | 1.33E-04 | 4.92E-03 | | [response to other organism](http://amigo.geneontology.org/amigo/term/GO:0051707) | [1429](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051707&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051707&list=upload_1&organism=Homo%20sapiens) | 31.44 | 1.72 | + | 1.78E-04 | 6.28E-03 | | [camera-type eye development](http://amigo.geneontology.org/amigo/term/GO:0043010) | [334](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043010&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043010&list=upload_1&organism=Homo%20sapiens) | 7.35 | 2.45 | + | 6.75E-04 | 1.86E-02 | | [negative regulation of protein modification process](http://amigo.geneontology.org/amigo/term/GO:0031400) | [503](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&reflist=1) | [27](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031400&list=upload_1&organism=Homo%20sapiens) | 11.07 | 2.44 | + | 4.43E-05 | 1.98E-03 | | [negative regulation of protein metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051248) | [1042](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&reflist=1) | [49](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051248&list=upload_1&organism=Homo%20sapiens) | 22.93 | 2.14 | + | 1.47E-06 | 9.39E-05 | | [negative regulation of macromolecule metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010605) | [2764](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&reflist=1) | [100](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010605&list=upload_1&organism=Homo%20sapiens) | 60.81 | 1.64 | + | 7.08E-07 | 4.81E-05 | | [negative regulation of nitrogen compound metabolic process](http://amigo.geneontology.org/amigo/term/GO:0051172) | [2409](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&reflist=1) | [82](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051172&list=upload_1&organism=Homo%20sapiens) | 53.00 | 1.55 | + | 8.84E-05 | 3.54E-03 | | [regulation of autophagy](http://amigo.geneontology.org/amigo/term/GO:0010506) | [345](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&reflist=1) | [18](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010506&list=upload_1&organism=Homo%20sapiens) | 7.59 | 2.37 | + | 1.31E-03 | 3.16E-02 | | [cellular response to cytokine stimulus](http://amigo.geneontology.org/amigo/term/GO:0071345) | [714](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0071345&list=upload_1&organism=Homo%20sapiens) | 15.71 | 2.36 | + | 3.87E-06 | 2.27E-04 | | [negative regulation of phosphate metabolic process](http://amigo.geneontology.org/amigo/term/GO:0045936) | [422](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0045936&list=upload_1&organism=Homo%20sapiens) | 9.28 | 2.26 | + | 7.29E-04 | 1.98E-02 | | [negative regulation of phosphorus metabolic process](http://amigo.geneontology.org/amigo/term/GO:0010563) | [423](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&reflist=1) | [21](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010563&list=upload_1&organism=Homo%20sapiens) | 9.31 | 2.26 | + | 7.48E-04 | 2.03E-02 | | [negative regulation of cellular metabolic process](http://amigo.geneontology.org/amigo/term/GO:0031324) | [2264](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&reflist=1) | [78](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0031324&list=upload_1&organism=Homo%20sapiens) | 49.81 | 1.57 | + | 8.06E-05 | 3.31E-03 | | [regulation of cation transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:1904062) | [384](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904062&reflist=1) | [19](http://pantherdb.org/tools/gxIdsList.do?acc=GO:1904062&list=upload_1&organism=Homo%20sapiens) | 8.45 | 2.25 | + | 1.41E-03 | 3.37E-02 | | [regulation of ion transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034765) | [510](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034765&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034765&list=upload_1&organism=Homo%20sapiens) | 11.22 | 2.23 | + | 3.63E-04 | 1.12E-02 | | [regulation of ion transport](http://amigo.geneontology.org/amigo/term/GO:0043269) | [708](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043269&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043269&list=upload_1&organism=Homo%20sapiens) | 15.58 | 1.93 | + | 1.04E-03 | 2.62E-02 | | [regulation of transmembrane transport](http://amigo.geneontology.org/amigo/term/GO:0034762) | [593](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034762&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0034762&list=upload_1&organism=Homo%20sapiens) | 13.05 | 2.22 | + | 1.07E-04 | 4.15E-03 | | [negative regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010629) | [902](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&reflist=1) | [44](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010629&list=upload_1&organism=Homo%20sapiens) | 19.85 | 2.22 | + | 1.63E-06 | 1.02E-04 | | [regulation of vesicle-mediated transport](http://amigo.geneontology.org/amigo/term/GO:0060627) | [552](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&reflist=1) | [26](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0060627&list=upload_1&organism=Homo%20sapiens) | 12.15 | 2.14 | + | 4.01E-04 | 1.21E-02 | | [positive regulation of gene expression](http://amigo.geneontology.org/amigo/term/GO:0010628) | [1151](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&reflist=1) | [54](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0010628&list=upload_1&organism=Homo%20sapiens) | 25.32 | 2.13 | + | 3.29E-07 | 2.41E-05 | | [inflammatory response](http://amigo.geneontology.org/amigo/term/GO:0006954) | [540](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006954&reflist=1) | [25](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006954&list=upload_1&organism=Homo%20sapiens) | 11.88 | 2.10 | + | 9.57E-04 | 2.47E-02 | | [defense response](http://amigo.geneontology.org/amigo/term/GO:0006952) | [1478](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&reflist=1) | [51](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006952&list=upload_1&organism=Homo%20sapiens) | 32.52 | 1.57 | + | 1.77E-03 | 4.09E-02 | | [protein localization to organelle](http://amigo.geneontology.org/amigo/term/GO:0033365) | [694](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&reflist=1) | [29](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0033365&list=upload_1&organism=Homo%20sapiens) | 15.27 | 1.90 | + | 1.49E-03 | 3.51E-02 | | [protein localization](http://amigo.geneontology.org/amigo/term/GO:0008104) | [1919](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0008104&list=upload_1&organism=Homo%20sapiens) | 42.22 | 1.54 | + | 6.06E-04 | 1.70E-02 | | [cellular macromolecule localization](http://amigo.geneontology.org/amigo/term/GO:0070727) | [1925](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&reflist=1) | [65](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0070727&list=upload_1&organism=Homo%20sapiens) | 42.35 | 1.53 | + | 6.27E-04 | 1.75E-02 | | [localization](http://amigo.geneontology.org/amigo/term/GO:0051179) | [4566](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&reflist=1) | [131](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051179&list=upload_1&organism=Homo%20sapiens) | 100.46 | 1.30 | + | 9.18E-04 | 2.39E-02 | | [intracellular protein transport](http://amigo.geneontology.org/amigo/term/GO:0006886) | [682](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&reflist=1) | [28](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0006886&list=upload_1&organism=Homo%20sapiens) | 15.01 | 1.87 | + | 2.18E-03 | 4.84E-02 | | [establishment of localization](http://amigo.geneontology.org/amigo/term/GO:0051234) | [3997](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&reflist=1) | [116](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0051234&list=upload_1&organism=Homo%20sapiens) | 87.94 | 1.32 | + | 1.46E-03 | 3.47E-02 | | [negative regulation of catalytic activity](http://amigo.geneontology.org/amigo/term/GO:0043086) | [781](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&reflist=1) | [32](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0043086&list=upload_1&organism=Homo%20sapiens) | 17.18 | 1.86 | + | 1.16E-03 | 2.84E-02 | | [regulation of cytokine production](http://amigo.geneontology.org/amigo/term/GO:0001817) | [742](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&reflist=1) | [30](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0001817&list=upload_1&organism=Homo%20sapiens) | 16.33 | 1.84 | + | 2.11E-03 | 4.72E-02 | | [regulation of immune response](http://amigo.geneontology.org/amigo/term/GO:0050776) | [935](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050776&reflist=1) | [37](http://pantherdb.org/tools/gxIdsList.do?acc=GO:0050776&list=upload_1&organism=Homo%20sapiens) | 20.57 | 1.80 | + | 8.97E-04 | 2.35E-02 | | Unclassified | [2725](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&reflist=1) | [11](http://pantherdb.org/tools/gxIdsList.do?acc=UNCLASSIFIED&list=upload_1&organism=Homo%20sapiens) | 59.96 | .18 | - | 1.82E-15 | 3.41E-13 | |

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