Evidence & Conclusion Ontology (ECO) Decision Tree

What type of evidence is the annotation based on?

Experimental (Wet Lab)

Is annotation based on genetic mutations or allelic variations?

— Yes →

Is a single gene being mutated or compared to other alleles of the same gene?

ECO:0000315 ← Yes —

— No →

Is more than one gene being mutated in the same strain?

ECO:0000316 ← Yes —

Is annotation based on a direct 1:1 physical interaction with another gene product?

Not used in CACAO ← Yes —

Is annotation based on a direct assay for the function, process, or component of the gene product?

ECO:0000314 ← Yes —

Is annotation based on the expression pattern of the gene product?

Not used in CACAO ← Yes —

(No branch from "Is annotation based on genetic mutations or allelic variations?" → leads to "Is annotation based on a direct 1:1 physical interaction with another gene product?")

Computational Method

Will each annotation be individually reviewed and confirmed by a human annotator?

— No → Not used in CACAO

— Yes →

Is the computation based purely on the sequence of the gene product (or sequence-based mapping files)?

— Yes → ECO:0000250*

*See sequence evidence decision tree

— No →

Does the computation include consideration of the genomic context of the gene?

— Yes → ECO:0000317

— No →

Is the computation an integrated analysis, typically including experimental datasets?

— Yes → Not used in CACAO