AMPLIFY THE IMPACT OF YOUR RESEARCH:

Ensure that your data can be integrated into the electronic data stream

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zfin.org



Do an experiment

Publish your results







Public databases save time and money





Scientists are both consumers and sources for electronic biological data





Biocurators are scientists who read publications and enter the data into a database





Your data has more impact in a database

Literature specificity ↔ database quality





How can you make sure your data enters the electronic datastream?



Author: Be specific, acquire accession numbers, consult nomenclature committees



Reviewer: Check that each figure or data type references specific genes, accession numbers, and experimental details



Editor: Institute guidelines for authors to include specific details, current gene nomenclature and accession numbers



Journal: Choose open access journal option

Gene names change. Accession numbers don't.





A

R

E

Be specific: list accession numbers in your publication

Which gene?



Be specific: use current gene nomenclature



Which reagent?



Author states: poly

polyclonal anti-Mypt1 Santa Cruz Biotechnology

	PRODUCT NAME	CATALOG #	ISOTYPE	EPITOPE	APPLICATIONS	SPECIES
	MYPT1 (E-19) Antibody	sc-17434	goat IgG	N-terminus (h)	WB, IP, IF, ELISA	m, r, h
	MYPT1 (N-15) Antibody	sc-17433	goat IgG	N-terminus (h)	WB, IP, IF, ELISA	m, r, h
	MYPT1 (H-130) Antibody	sc-25618	rabbit IgG	711-840 (h)	WB, IP, IF, IHC(P), ELISA	m, r, h
Supplier	MYPT1 (K-18) Antibody	sc-34142	goat IgG	C-terminus (h)	WB, IF, ELISA	m, r, h
	MYPT1/2 (C-18) Antibody	sc-34143	goat IgG	C-terminus (h)	WB, IF, ELISA	m, r, h
lists:	p-MYPT1 (Thr 853) Antibody	sc-17432	goat IgG	Thr 853 (h)	WB, IP, IF, ELISA	m, r, h
	p-MYPT1 (Ser 695) Antibody	sc-33360	rabbit IgG	Ser 695 (h)	WB, IP, IF, ELISA	m, r, h
	p-MYPT1 (Thr 696) Antibody	sc-17556	goat IgG	Thr 696 (h)	WB, IF, ELISA	m, r, h
	p-MYPT1 (Ser 903) Antibody	sc-17557	goat IgG	Ser 903 (h)	WB, IF	m, r, h

Be specific: use catalog numbers



Which morpholino?





Be specific: provide morpholino sequences

Which fish?



Which one-eyed pinhead allele? Which background?

There are 5 alleles and **26 genotypes** of *oep* in ZFIN

Be specific: Each allele or transgenic insertion has a unique line number



All mutants and transgenics need line numbers

Site Search: Research General Information ZIRC Zebrafish Model Organism Database Search Genes / Markers / Clones Zebrafish International Resource Center Search Gene Expression Request: Fish Lines, ESTs/oDNAs, Monoclonal Antibodies, The Zelvafish Book, Paramecia Search Antibodies Submit: Fish Lines BLAST at ZFIN Health Services Nomenclature Conventions ZIRC Home Obtain approval for gene names **ZFIN Author Guidelines** Genomics R Browse the genome: Ensembl, Vega, UCSC, NCBI Search Mutants / Transgenics View Genetic Maps Valid-Type Lines BLAST at ZFIN, Ensembl, Vega, NCBI, MGH Line Designations Find cDNAs and ESTs at ZGC, ZGI Submit mutant@ransgenic line names Microanay expression at ZF-Espresso E More Zebrafish Genome Resources Search Anatomy Other Fish Genomes Atlases and Resources Zebrafish Programs Trans-NIH Zebrafish Initiative. Search Publications ZF-MODELS, more... **Find People** News Find Laboratories April 8 - New Vega Release Find Companies March 6 - Zebrafish Antibodies Poll All News, All ZFIN Newsletters Jobs, Meetings Zebrafish Newsgroup Download Data View The Zebrafish Book Zebrafish for K-12 Zebrafish In The Classroom About ZEIN Citing ZFIN Visit the login page to update person and lab records. Home About ZFIN Citing ZFIN Glossary Help and Tips Contact ZFIN

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Visit the login page to update person and lab records.

All mutants and transgenics need line numbers

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Visit the login page to update person and lab records.

Why is your figure not in ZFIN?



Figure available only from publisher

EXPRESSION / LABELING :

Do your figures look like this?

Antibodies : Ab1-smad

Genetic Background : wild type (unspecified)

Anatomical Terms: blastoderm

Stage Range : 50%-epiboly

Expression / Labeling details

Choose journals that make pdfs freely available and are open access



Small effort \rightarrow many benefits

- Data links
- Accuracy
- Funding agency
- Time
- Money



The electronic datastream helps you and others



Tips for authors

- 1. Use unique IDs for sequences, fish, and reagents
- 2. Identify in each figure which gene, fish, stage and structure
- 3. Publish open access and/or encourage your favorite journal to do so
- 4. Contact ZFIN with questions or suggestions, we are here to help!

<u>http://zfin.org</u> <u>zfinadmn@zfin.org</u>



