

CENTRAL VALLEY BIOLOGICAL  
1010 SAGE BRUSH CT.  
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Central Valley Biological was established in 1975 as a wholesale supplier of wild caught non-conditioned bullfrogs, R. catesbiana. With the help of the scientific community and a grant from the National Institute of Health we have become a commercial source for products that were previously not available.

Dr. Louis DeLanney, Institute for Medical Research, San Jose, has donated his line of inbred Axolotls for development. We will offer partial spawnings of eggs and larva, (F-1 through F-9) beginning now with adults being offered by January 1986.

We have the following lab-bred Xenopus available as eggs, larvae, and newly metamorphosed frogs: Xenopus laevis, Xenopus "new jersensis" (a mitochondrial variant of laevis), Xenopus laevis periodic albino (noted as P/a P), and Xenopus Tropicalis (fertilization to hatch time of 12 hrs. at 28 degrees C.).

We are currently collaborating with Dr. Janice Brothers, U.C. Berkeley, to prepare a complete development staging chart on species of amphibians that have shown scientific merit as new amphibian models for research. They are Rana adspersus and Ceratophrys ornata. The Rana adspersus has a temperature tolerance range of 14 degrees C. to 37 degrees C. Early development (ie: fertilization up to gastrulation), is very rapid, 4 1/2 hours at 37 degrees C. Fertilization to metamorphosis takes 11 days at 35 degrees C. The Ceratophrys ornata have a temperature tolerance range of 16 degrees C. to 30 degrees C. Hatching occurs at about 28 hrs. at 30 degrees C.

Preliminary investigations done in collaboration with Dr. Louis De Lanney, Institute for Medical Research, San Jose, has indicated that Ceratophrys can have complete limb regeneration within 10 to 14 days after amputation--amputations done at stage 6-9 using Schumways R. pipiens staging. We will investigate this further.

We have a Carver lab press with pressure cell for making triploids of the various amphibians we work with. These will be made available as our time and resources allow. We also have a utility grade of axolotl and Pleurodeles waltii. A complete price list is available on request.

Bob Barnes  
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