

University Animal Care Committee Standard Operating Procedure	
Document No: 15.3	Subject: Anesthesia and Euthanasia of Zebrafish
Date Issued: \$ SULO	Revision:

Location: 4XHHQ 1 V 8QLYHUVLV\

Responsibility: 3ULQFQ \$ B IOWBJ DMRHUBW EKH WHU S WQDU\

Purpose: 7KH SXUSRVH RI WKLV 6WDQGDUG LV WR SURFHHG WKH WHUP DQHVWKHVL D UHIHUV WR DQ DU

- 1) Introduction and Definitions: 7KH WHUP DQHVWKHVL D UHIHUV WR DQ DU , Q]HEUDILVK D VXUJL DLOV SDFK QHYR HIGL DQHVWKHVL D UHIHUV WR DQ DU\ OR LHORVWL LKWLQVK D IORZ UDWH RI RSHUFKH DQHVWKHVL D UHIHUV WR DQ DU SLQFKH WHUP HXW KVRQ G M V D ULVE H V HCG LQJ WKH OLIH RI DQ LQ PLQLPLJHV RU HOLPLQDWHV SDLQ DQG GLVWUHV
- x 'SI GD\ V SRVW IHUWLOL]DWLRQ
 - x =HEUDILVK' H BBU\ R
 - x =HEUDU\ VKGSI
 - x \$GXOW]HEUDILVK

- 2) Materials:
- x 7DQN RUFVLP D DQHU ODUJH HQRIZ DMRHUKRQIG DWR DND DQDHV M X M K D D V L D W D Q N
 - x 6\ VWHP ZDWHU RU ZDWHU RI VLPY R Q P H Z W H U R T P X Y K L F K R U L J L Q D W H G
 - x 7ULFDLQH PHWKDQH VXOIRQDWH 06
 - x 6RGLXP DUERQDWH EDNLQJ VRGD
 - x %OHDFK VROXWLRQ VRGLXP K\SRFKORULWH
 - x /LGRFDLQH
 - x ,FH
 - x 6WLUULQJ XWHQVLO
 - x 3HUVRQDO 3URSRQW YH (
 - x %R D J V
 - x)UHH]HU
 - x 6PDOO ILVK WDQN QHW

- 3) Procedures:
- Anesthesia of zebrafish adults:
- x \$GG RI V\ VWHP D D P S M U D Q R H V W K H V L D W D Q N
 - x \$GG PJ RI D Q G PJ EDNLQD Q M R G W D H Q N D V R G P L & M K F R N U I W K D W W K H S + R I W K H V R O X W L R Q L V E H W Z H H Q
 - x 3UHSDUH UHFYHU\ R W D Q M W E H P D Z G W Q W R U H F R F R I Q G W H P S M
 - x 8VH D GLVLQ L V K W H G Q G Q H W W I R U V H F R Y H W D Q N D Q H V W K H V L D W D Q N
 - x 0RQLWRU IRU O B V J K R D D G V O R Z L Q R R I R S H U F X O D B L Q R X W H P V 3LQFK Q D I E G M K H U H L V Q R U H I O H [U H M S F D O V S I O W R H W B L D Q I E E H H Q D F K L H Y H G
 - x 5HFRYHU ILVK E\ SODFLQJ LQ UHFYHU\ WDQN 0RQLWRU I UHFYHUHG DQLPDO FDQ EH UHWXUQH G WR KRPH WDQN

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Euthanasia of zebrafish embryos

- x 0L[SDUW EOH\$DUFKWWBRWHU LQ HPSW\ HXWKDQDVL D WDQN
- x 0L[ZLWK VWLUULQJ XWHQVLO
- x 5HPRYH]HEUDILVK HPEU\RV D DUF R PL Q R P X W K D Q D V L D Q G W S Q N I F
- x &ROOHFW HXWKDQL]HG HPEU\RV DQG SODFH LQ SODDOWLF

Euthanasia of zebrafish fry:

- x \$GG LFW\VDZDWHU WR HPSW\ HXWKDQDVS D UWDQSDZDWRIRU
- &
- x 8VH D GLVLQLNFKWHTGCHBQYHW]WRU D ILVK IU\ IURPHKRPKH D Q D Q
- WDQN IRU DW O&HCFM WHP S X W D W X U H R I V R O X W L R Q S H U L I
- UHPDLQV EHWZHHQ
- x &ROOHFW DQL]HG IUD E B Q G J S O D F H Q E S O D L Q H I U H H] H U X Q W L O C

Euthanasia of zebrafish adults:

- x \$GG RV\VVZDWHU WR HPSW\ HXWKDQDVL D WDQN
- x \$GG PJ RI 06 DQGPJ EDNLQJ VRGD WR HXWKDQDVL D W
- x 8VH D GLVLQLNFKWHTGCHBQYHW DGR QW]HEUDILV S O D U F R P L Q R P H
- HXWKDQDVL D WDQN
- x 2EVHUYH IRU FHVVDWLRQ RRLQSHWUFX QDW HUR F H F M D W L R Q R
- UHPRYH]HEUDILVK IUDRCH D Q K E Q V W B H V D S L N Q D O B D R A U G H Z L V
-]HEUDILV R K E D D Q S O D F H D J W L Q H H] H U X Q W L O G L V S R V D O
- x \$OWHU Q D G V G Y H Q I G R F D I P Q H P W R P O R D S \ V W H P Z D W H U L Q D V
- 3ODF H H V U K W R E H H X W K D Q L] H G L Q W R W K H E H D N H U D Q G
- FHVVDWLRQ R R Y R S H L O F X P D Q X W H V D I W H U F H V V D W L R Q R I R S
-]HEUDILV R P K W K H E H D N H U D Q G W U D Q V H F W 3 O D F H V S L I Q D Q H E R D
- ERG\