Zebrafish embryos and Larvae : a new generation of disease model and drug screens

Ali, S.

ZEBRAFISH EMBRYOS AND LARVAE: A NEW GENERATION OF DISEASE MODEL AND DRUG SCREENS

Shaukat Ali

To everybody who gets knowledge and delivers it…….

Shaukat Ali

Zebrafish Embryos and Larvae: A New Generation of Disease Model and Drug Screens.

Dissertation Leiden University

Cover figure by Shaukat Ali: A 5 day zebrafish larva treated with 10% ethanol for 1 h at *prim-16*.

Printed by: Wöhrmann Print Services, Zutphen.
ISBN:978-90-8570-731-8

Zebrafish Embryos and Larvae: A New Generation of Disease Model and Drug Screens

Proefschrift

ter verkrijging van

de graad van Doctor aan de Universiteit Leiden,

op gezag van Rector Magnificus prof. mr. P.F. van der Heijden,

volgens besluit van het College voor Promoties

te verdedigen op Woensdag 7 December 2011

klokke 10.00 uur

door

Shaukat Ali

geboren te Narowal, Punjab,

Pakistan 15 June, 1981

Promotiecomissie

Promotor:	Prof. dr. Michael K. Richardson
Overige Leden:	Prof. dr. Carel J. ten Cate
	Prof. dr. Uwe Strähle (Karlsruhe Institute of Technology, Germany)
	Prof. dr. Rob Verpoorte
	Prof. dr. Petrus G. L. Klinkhamer
	Dr. Hans Slabbekoorn
	Dr. Danielle L. Champagne (Radboud University, Nijmegen, The Netherlands)
	Dr. A. Alia

This work described in this thesis was supported by the Smart Mix Programme of the Netherlands Ministry of Economic Affairs and the Netherlands Ministry of Education, Culture and Science under grant number" SSM06010" and University of Azad Jammu and Kashmir, Pakistan under project "No.F-3/PD/Main & Mirpur/369/2007.

Contents