



7th European Zebrafish Meeting
Edinburgh, Scotland, 5th - 9th July 2011

TUESDAY 5TH JULY

12.00 - 19.30	Delegate Registration Open	Strathblane Hall
09.00 - 17.00	Zebrafish Genome Resources Workshop (<i>Wellcome Trust Sanger Institute</i>) <i>This is NOT included in the main meeting registration, delegate must register separately through the Sanger website. Places are limited.</i>	Ochil Suite
13.00 - 17.00	Zebrafish Husbandry workshop in association with UCL, ZIRC, ZHA and BAZH <i>This open door workshop provides current severity limits within EU legislation, discussion of colony management including health management, husbandry community session.</i>	Tinto Suite
13.00 - 19.30	Crèche	Carrick Suite
15.00 - 18.00	Speaker Preview Open	Harris 1
18.00 - 19.30	Welcome Reception	Cromdale Hall

WEDNESDAY 6TH JULY

08.00 - 20.00	Registration & Information Desks Open	Strathblane Hall
08.30 – 20.00	Crèche Area	Carrick Suite
08.00 -17.00	Speaker Preview Open	Harris 1
10.00 – 20.00	Exhibition & Poster Area Open	Cromdale & Strathblane Hall
09.00 – 09.15	Opening Remarks Local Organising Committee	Pentland Suite
09.15 -10.45	Plenary Session 1 – Technology Chair: Derek Stemple 09.15 - 09.30 PL1-1 The Zebrafish Mutation Project (ZMP): Whole exome sequencing of mutagenised zebrafish to identify a non-sense allele in every protein coding gene Ross Kettleborough 09.30 -09.45 PL1-2 Generation of a genome-wide knockout library in Zebrafish Shawn Burgess 09.45 -10.00 PL1-3 From cells to tissues - high resolution cell lineage and clonal analysis in the developing zebrafish brain Qiling Xu 10.00 -10.15 PL1-4 Polysome profiling reveals novel translational control mechanisms during zebrafish development Todd Evans 10.15 -10.30 PL1-5 Photocontrol of protein activity at the single cell level Carole Gauron 10.30 -10.45 PL1-6 Regulating gene activity in transgenic zebrafish with the Neurospora Q system Marnie E. Halpern	Pentland Suite
10.45-11.30	Tea/Coffee, Exhibition & Posters	Cromdale & Starthblane Hall
11.30-13.00	Plenary Session 2 – Neurogenesis/Gliogenesis Chair: Jon Clarke 11.30-11.45 PL2-1 Specification and role in development of hindbrain rhombomere boundaries Javier Terriente 11.45-12.00 PL2-2 Vesicular transport of DeltaD ligands in the embryonic neuroepithelium: A novel imaging approach to study the	Pentland Suite

	<p>endocytic trafficking of endogenous signaling molecules in intact living zebrafish Maximilian Fürthauer</p> <p>12.00-12.15 PL2-3 Generation of neuronal diversity by ath5-expressing progenitors in the Zebrafish Shahad Albadri</p> <p>12.15-12.30 PL2-4 Exploring a role for heterochrony and orientation of divisions during specification of PhR subtypes Elise Cau</p> <p>12.30-12.45 PL2-5 Light and melatonin schedule neuronal differentiation in the habenular nuclei Joshua Gamse</p> <p>12.45-13.00 PL2-6 Live imaging reveals cell-cell interactions that regulate central nervous system myelination Tim Czopka</p>	
13.00-15.00	<p>Buffet Lunch, Exhibition & Posters</p> <p>Poster Viewing Session A (Poster Board Numbers P1-1 to P1-202)</p>	Cromdale & Strathblane Hall
13.30 -14.30	<p>Open Zebrafish Atlases Discussion</p> <p>An open discussion group, places will be limited and will be on a first come first serve basis</p>	Ochil Suite
13.40 - 14.20	<p>Tecniplast Satellite Symposium</p> <p>The i-Spawn: A Novel Group Spawning Chamber for Zebrafish Isaac Adatto Christian Lawrence Marco Brocca</p>	Lomond Suite
13.30 -14.30	COST - Working Group 1 Meeting	Harris 2
15.00 -17.00	<p>Parallel Symposium 1 – Muscle, Skin and Connective Tissue Chair: Phil Ingham</p> <p>15.00-15.15 O1-1 Molecular toolbox for muscle cell repair Urmaz Roostalu</p> <p>15.15-15.30 O1-2 Developmental transition of motility from slow muscle-mediated coilings to fast muscle-mediated escape response in Zebrafish Hiromi Hirata</p> <p>15.30-15.45 O1-3 The zebrafish mutant mi34 is necessary for normal excitation contraction coupling in skeletal muscle Eric Horstick</p>	Pentland Suite

	<p>15.45-16.00 O1-4 <i>Col22a1</i> depletion in zebrafish leads to severe muscle dystrophy by disruption of myotendinous junction Florence Ruggiero</p> <p>16.00-16.15 O1-5 <i>fused somites (tbx24)</i> Regulates Paraxial Mesoderm Cell Fate Stephen Devoto</p> <p>16.15-16.30 O1-6 Eat or be eaten: In vivo lineage tracing identifies oesophageal and sternohyoid striated muscle as novel Pax3b-dependent somite-derived voluntary muscles that improve swallowing Simon Hughes</p> <p>16.30-16.45 O1-7 The <i>kindlin-1^{del565}</i> mutant is a unique model for studying Kindler syndrome <i>in vivo</i>, revealing novel functions of Kindlin-1. Ruben Postel</p> <p>16.45-17.00 O1-8 Adult zebrafish as a model for epidermal wound healing Rebecca Richardson</p>	
15.00-16.00	<p>Parallel Symposium 2A - Axon Guidance and Circuit Formation Chair: Martin Meyer</p> <p>15.00-15.15 O2A-1 Sim1/Arnt2 transcription factors contribute to hypothalamo-spinal axon guidance by regulating Robo2 activity via a Robo3 dependent mechanism Jörn Schweitzer</p> <p>15.15-15.30 O2A-2 Retinal axon trajectories in the optic tract are topographically edited by a heparan sulfate-dependent mechanism DFabienne Poulain</p> <p>15.30-15.45 O2A-3 Zebrafish Fidgetin-like 1 controls spinal motor axon guidance through the regulation of microtubule dynamics Coralie Fassier</p> <p>15.45-16.00 O2A-4 Notum 2 a novel regulator of motor axon guidance Jorge Cantu</p>	Lomond Suite

16.00-17.00	<p>Parallel Symposium 2B- Behaviour Chair: Stephen Neuhauss</p> <p>16.00-16.15 O2B-1 Genetic dissection of the hindbrain by the Gal4-UAS system Kazuhide Asakawa</p> <p>16.15-16.30 O2B-2 MANF regulates the development of the catecholaminergic system in zebrafish Pertti Panula</p> <p>16.30-16.45 O2B-3 Behavioural lateralisation and avoidance behaviours Anukampa Barth</p> <p>16.45-17.00 O2B-4 Visual behavior testing in larval and adult zebrafish Stephan Neuhauss</p>	Lomond Suite
17.00 -17.30	Tea/Coffee, Exhibition & Posters	Cromdale & Strathblane Hall
17.30-18.30	Keynote Lecture 1 – Professor Oliver Hobert Of bottlenecks and shortcuts: How to make neurons in <i>C.elegans</i> (<i>Hosted by David Lyons</i>)	Pentland Suite
18.30- 20.00	Poster Viewing Session B (Poster Board Numbers P1 -1 to P1 – 202)	Cromdale & Strathblane Hall
18.30- 20.00	COST - Working Group 3 Meeting	Harris 2
	Free Evening	

THURSDAY 7TH JULY

08.00 -18.00	Registration & Information Desk Open	Strathblane Hall
08:30 -18:00	Crèche Area	Carrick Suite
08.00 -17.00	Speaker Preview Open	Harris 1
10.00 -18.00	Exhibition & Poster Area Open	Cromdale & Strathblane Hall
09.00-11.00	<p>Plenary Session 3 - Early Development and Patterning Chair: Corrine Houart</p> <p>09.00-09.15 PL3-1 The zebrafish maternal-effect mutant <i>motley</i> reveals a novel role for the chromosomal passenger complex in interphase f-actin dynamics and germ plasm localization Sreelaja Nair</p> <p>09.15-09.30 PL3-2 Dynamic Microtubules at the Vegetal Cortex of Early Zebrafish Embryos Tran Duc Long</p> <p>09.30-09.45 PL3-3 Gpr125 - A novel planar cell polarity pathway component in zebrafish Florence Marlow</p> <p>09.45-10.00 PL3-4 Systematic investigation of vertebrate synexpression groups Robert Reinhardt</p> <p>10.00-10.15 PL3-5 Mesogenin throws the switch that converts mesodermal progenitors into paraxial mesoderm Rita Fior</p> <p>10.15-10.30 PL3-6 Visualizing <i>in vivo</i> Notch- and cell cycle-mediated synchronization of the zebrafish segmentation clock Emilie Delaune</p> <p>10.30-10.45 PL3-7 Translating pattern into shape: a role for Wnt signaling and Zic transcription factors during neurulation. Yevgenya Grinblat</p> <p>10.45-11.00 PL3-8 Boundaries of Ephrin activity in the anterior neural plate are required for the correct morphogenesis of the forebrain Florenca Cavodeassi</p>	Pentland Suite
11.00 -11.30	Tea/Coffee, Exhibition & Posters	Cromdale & Strathblane Hall

11.30-13:00	<p>Plenary Session 4 – Screens Chair: Len Zon</p> <p>11.30-11.45 PL4-1 High-throughput zebrafish imaging, surgery, and screening at cellular resolution Tsung-Yao Chang</p> <p>11.45-12.00 PL4-2 Developing a therapeutic model for TARDBP mutations in ALS using zebrafish Alexandra Lissouba</p> <p>12.00-12.15 PL4-3 Inhibitors of developmental angiogenesis in zebrafish effectively inhibit pathological ocular neovascularisation in mice Breandan Kennedy</p> <p>12.15-12.30 PL4-4 The enhancer disruption (ED) screen in zebrafish Jose Bessa</p> <p>12:30-12:45 PL4-5 Fast mapping of a mutation affecting pancreas development by high-throughput sequencing Marianne Voz</p> <p>12:45-13:00 PL4-6 The Sanger Institute zebrafish mutation project: Functional annotation of the zebrafish genome Elisabeth Busch-Nentwich</p>	Pentland Suite
13:00-15.00	<p>Bag Lunch / Exhibition</p> <p>Posters Viewing Session C (Poster Board numbers P2-1 to P2-241A)</p>	Cromdale & Starthblane Hall
13.15-14.45	<p>Chemical Biology Workshop Chair: Len Zon</p> <p>13:15-13:25 Introduction – Len Zon</p> <p>13:25 - 13:45 “Technology Blast” - short presentations</p> <p>13:45 - 14:30 Discussion lead by Len Zon</p> <p>Special focus on screen design, chemical libraries, compound follow-up and target ID</p> <p>14:30 - 14:45 Summary and Conclusions – Len Zon</p>	Lomond Suite
13.30-15.00	COST Working Group 2 Meeting	Harris 2
13.30-15.00	<p>Advanced Live Cell Imaging & Quantitative Image Analysis</p> <p>Workshop by PerkinElmer</p>	Ochil Suite

	<p>This is NOT included in the main meeting registration, delegates must register separately through the link below, <i>Registration is free</i> but space is limited, please reserve your place via their website.</p> <p>The session will consist of:</p> <p>A short introduction to PerkinElmer's Cellular Imaging & Analysis Portfolio – tools for image capture, data management and image analysis.</p> <p>A live demonstration of Volocity® – high performance, 3D image analysis software for fluorescence image data.</p>	
15.00-16.00	<p>Parallel Symposium 3 – High Throughput Analyses of Early Development Chair: Corrine Houart</p> <p>15.00-15.20 O3-1 Identification of maternal and paternal mRNA's during the maternal to zygotic transition Steve Harvey</p> <p>15.20-15.40 O3-2 Transcriptomic and epigenetic dynamics before and during zebrafish zygotic genome activation Peter Aleström</p> <p>15.40-16.00 O3-3 Transcription initiation and mRNA degradation mechanisms at the mid blastula transition are revealed by characterization of the developmental promoterome Ferenc Müller</p>	Pentland Suite
15.00–16.00	<p>Parallel Symposium 4 – Comparative Developmental Biology Chair: Manfred Scharl</p> <p>15.00-15.15 O4-1 The role of fanconi anemia/BRCA genes in zebrafish sex determination John H. Postlethwait</p> <p>15.15-15.30 O4-2 Identification of target genes for the male sex determining gene <i>dmrt1bY</i> in medaka Manfred Scharl</p> <p>15.30-15.45 O4-3 A <i>cis</i>-regulatory signature for anterior nervous system genes Yan Jaszczyszyn</p> <p>15.45-16.00 O4-4 Discovery of novel evolutionarily conserved direct targets of <i>Pax6</i></p>	Lomond Suite

	Pedro Coutinho	
16.00-16.30	Tea/Coffee / Exhibition / Posters	Cromdale & Starthblane Hall
16.30-18.00	<p>Parallel Symposium 5 – Organogenesis Chair: Elke Ober</p> <p>16:30-16:45 O5-1 EphrinB/EphB signalling controls morphogenesis of endoderm and lateral plate mesoderm in zebrafish Jordi Cayuso</p> <p>16:45-17:00 O5-2 Wnt4a and Wnt11r coordinate branching morphogenesis of endodermal pouch epithelia by controlling cell migration and junctional ALCAM localization Chong Pyo Choe</p> <p>17.00-17.15 O5-3 Wnt/B-catenin signaling regulates ciliogenesis via direct modulation of ciliogenic transcription factor <i>foxj1a</i> Xueying Lin</p> <p>17.15-17.30 O5-4 The role of <i>scribble</i> in the notochord and vertebral column formation Jolanta Topczewska</p> <p>17.30-17.45 O5-5 Control of cell motility by the RNA-binding protein Dead end Erez Raz</p> <p>17.45-18.00 O5-6 Estrogen exhibits a biphasic role on liver development mediated by <i>esr2</i> and affects liver regeneration Wolfram Goessling</p>	Pentland Suite
16.30-18.00	<p>Parallel Symposium 6- Neural Crest Chair: Robert Kelsh</p> <p>16:30-16:45 O6-1 Neuronal neuregulin 1 type III directs Schwann cell migration William Talbot</p> <p>16:45-17:00 O6-2 Skeletogenic potential of zebrafish cranial and trunk neural crest Shannon Fisher</p> <p>17.00-17.15 O6-3 Different modes of cell behavior generate diverse shapes in the craniofacial skeleton April DeLaurier</p>	Lomond Suite

	<p>17.15-17.30h O6-4 The role of intraflagellar transport genes in craniofacial morphogenesis Pamela C. Yelick</p> <p>17.30-17.45 O6-5 Melanocyte self-duplication contributes to pigmentation patterning and is enhanced in regeneration Kerrie Taylor</p> <p>17.45-18.00 O6-6 An Iterative genetic and dynamical modelling approach identifies novel features of the gene regulatory network underlying melanocyte development Robert N. Kelsh</p>	
18.00-19.00	Delegates to make their way to Edinburgh Castle	
19.00-20.30	Castle Reception	Edinburgh Castle

FRIDAY 8TH JULY

08:00 -18:00	Registration & Information Desks Open	Strathblane Hall
08:30 -18:00	Crèche Area	Carrick Suite
08.00 -17.00	Speaker Preview Open	Harris 1
10.00-16.30	Exhibition & Poster Area Open	Cromdale & Strathblane Hall
09.00-10.30	<p>Parallel Symposium 7 – Regeneration and Stem Cells Chair: Thomas Becker</p> <p>09.00-09.15 O7-1 Profound differences in reactive gliosis after stab wound injury of the adult zebrafish telencephalon accompany long-term survival of additionally generated neurons and the absence of scar formation Jovica Ninkovic</p> <p>09.15-09.30 O7-2 Regeneration of the adult zebrafish brain: new neurons from radial glia-type progenitor cells Michael Brand</p> <p>09.30-09.45 O7-3 Müller Glial-Dependent Regeneration of Photoreceptors in the Light-Damaged Retina Requires Tumor Necrosis Factor-alpha David Hyde</p> <p>09.45-10.00 O7-4 Dopamine signaling from the brain augments spinal motor neuron generation during development and adult regeneration via hedgehog pathway activation Catherina G. Becker</p> <p>10.00-10.15 O7-5 Extensive scar formation and regression during heart regeneration after cryoinjury in zebrafish Juan Manuel González-Rosa</p> <p>10.15-10.30 O7-6 Bone regenerates via dedifferentiation of osteoblasts in the zebrafish fin Franziska Knopf</p>	Pentland Suite

09.00-10.30	<p>Parallel Symposium 8 – Infection and Immunity Chair: Philippe Herbomel</p> <p>09.00-09.15 O8-1 The haematopoietic stem/progenitor cell pool responds to infection by expanding and enhancing its commitment to the neutrophil lineage through a mechanism dependent on inducible nitric oxide Chris Hall</p> <p>09.15-09.30 O8-2 High throughput screening of disease in zebrafish and carp Herman Spaik</p> <p>09.30-09.45 O8-3 What really happens during <i>Cryptococcus</i> infection? A zebrafish model of infection and immunity cell biology <i>in vivo</i> Simon Johnston</p> <p>09.45-10.00 O8-4 Altered intestinal microbial composition and innate immunity in Rag1^{-/-} zebrafish Sylvia Brugman</p> <p>10.00-10.15 O8-5 Live imaging the role of key cytoskeletal regulators on immune cell behaviours in zebrafish larvae Rebecca Jones</p> <p>10.15-10.30 O8-6 Macrophage behaviour during inflammation and infection Felix Ellett</p>	Lomond Suite
10.30-11.00	Tea/Coffee, Exhibition & Posters	Cromdale & Starthblane Hall
11.00-12.30	<p>Parallel Symposium 9 – Cancer Chair: Joan Heath</p> <p>11.00-11.15 O9-1 Tumorigenesis in zebrafish: TOR is not enough? Kevin Ess</p> <p>11.15-11.30 O9-2 Oncogenic ras affects polarity and cell divisions of telencephalic neuroepithelial cells in a zebrafish model of malignant glioma Marina Mione</p> <p>11.30-11.45 O9-3 Zebrafish nervous system microenvironment promotes phenotypic reprogramming of Glioblastoma derived cells through Wnt pathway activation Elena Rampazzo</p>	Pentland Suite

	<p>11.45-12.00 O9-4 Inducible and repressible oncogene-addicted hepatocellular carcinoma in Tet-on and mifepristone-inducible transgenic zebrafish Zhiyuan Gong</p> <p>12.00-12.15 O9-5 VEGFR targeting elicits metastasis by modification of myeloid cells in a zebrafish xenograft model B.Ewa Snaar-Jagalska</p> <p>12.15-12.30 O9-6 SUV39H1 suppresses rhabdomyosarcoma formation in zebrafish Colleen Albacker</p>	
11.00-12.30	<p>Parallel Symposium 10 – Sensory Systems Chair: Rainer Friedrich and Darren Gilmour</p> <p>11.00-11.1h O10-1 Lef1-dependent Wnt/β-catenin signalling drives the proliferative engine that maintains tissue homeostasis during lateral line development Rodrigo Young</p> <p>11.15-11.30 O10-2 A Cadherin23-Harmonin-lft88 module is required for trafficking and localization of Usher proteins in the Zebrafish Ear And Eye Bernardo Blanco-Sanchez</p> <p>11.30-11.45 O10-3 Origin of Inner Ear Hair Cells: Morphological and Functional Differentiation from Ciliary Cells into Hair Cells in Zebrafish Inner Ear Masashi Tanimoto</p> <p>11.45-12.00 O10-4 Piezo2a is required for mechanically-gated currents in zebrafish light-touch mechanoreceptors Sean Low</p> <p>12.00-12.15 O10-5 Visual modulation of audiomotor response via hypothalamic dopaminergic neurons Jiulin Du</p> <p>12.15-12.30 O10-6 Mapping motion-sensitive inputs into the zebrafish optic tectum Nikolas Nikolaou</p>	Lomond Suite
12.30-14.00	<p>Buffet Lunch / Exhibition</p> <p>Posters Viewing Session D (Poster Board numbers P2-1</p>	Cromdale & Starthblane Hall

	to P2-241A)	
12.45 -13.45	COST- Working Group 4 Meeting	Harris 2
14.00-16.00	<p>Plenary Session 5 – Cardio-Vascular Development & Hematopoiesis. Chair: Roger Patient</p> <p>14.00-14.15 PL5-1 Genesis and cell fate decisions of blood stem cells in zebrafish embryos Roger Patient</p> <p>14.15-14.30 PL5-2 <i>Scf</i> isoforms act downstream of <i>etsrp</i> to specify angioblasts and definitive hematopoietic stem cells Xi Ren</p> <p>14.30-14.45 PL5-3 Metabolism-induced reactive oxygen species (ROS) and hif1a stimulation control the induction and expansion of hematopoietic stem cells Trista North</p> <p>14.45-15.00 PL5-4 Clonal analysis of hematopoietic stem and progenitor cells in the zebrafish David Stachura</p> <p>15.00-15.15 PL5-5 Semaphorin-PlexinD1 signaling represses angiogenic potential Jesús Torres-Vázquez</p> <p>15.15-15.30 PL5-6 Hematopoietic cell lineage analysis from ventrolateral mesoderm through the draculin regulatory region Christian Mosimann</p> <p>15.30-15.45 PL5-7 Transmembrane protein 2 (<i>tmem2</i>) is required to regionally restrict atrioventricular canal boundary and endocardial cushion development Kelly Smith</p> <p>15.45-16.00 PL5-8 The genetic program regulating cardiac septation is present in the zebrafish heart Daniela Panakova</p>	Pentland Suite
16.00-16.30	<p>Tea/Coffee, Posters & Exhibition</p> <p>Exhibition and Posters close 16.30</p>	Cromdale & Stathblane Hall
16.30-18.00	Community Session & Poster Prizes	Pentland Suite
18.00-18.30	Delegates to make way to St Mary's Cathedral	
18.30-19.30	Music Concert at St Mary's Cathedral	St Mary's Cathedral

SATURDAY 9TH JULY

08:30-12.00	Registration & Information Desks Open	Strathblane Hall
08:30-13.00	Crèche Area	Carrick Suite
08.00-11.00	Speaker Preview Open	Harris 1
09.00-11.00	Plenary Session 6 – Disease Models Chair: Freek van Eeden	Pentland Suite
	09.00-09.15 PL6-1 Modulation Of muscle fibre integrity by manipulation of laminin/integrin complexes Peter Currie	
	09.15-09.30 PL6-2 Zebrafish mutants that model human osteoarthritis Chrissy Hammond	
	09.30-09.45 PL6-3 Zebrafish as a model for compensatory β cell hyperplasia Wenbiao Chen	
	09.45-10.00 PL6-4 Using Zebrafish as a Tool to Define Function of 16p11.2 Autism Genes Sunny Gupta	
	10.00-10.15 PL6-5 Silencing of RhoA nucleotide exchange factor, ARHGEF3 reveals its unexpected role in iron uptake Ana Cvejic	
	10.15-10.30 PL6-6 Lipoprotein oxidation and formation of vascular lesions in hypercholesterolemic zebrafish Yury Miller	
	10.30-10.45 PL6-7 Aberrant phosphatidylinositol synthesis leads to hepatocellular ER stress and steatosis in <i>cdipt</i> -deficient zebrafish: a model for non-alcoholic fatty liver disease Prakash Thakur	
	10.45-11.00 PL6-8 Notch signaling is required for mast cell development in the zebrafish and may represent a novel therapeutic strategy in human systemic mastocytosis Jason Berman	
11.00-11.30	Tea/Coffee	Strathblane Hall
11.30-12.30	Keynote Lecture 2 – Professor Sir David Lane The p53 pathway in Zebrafish (Hosted by Liz Patton)	Pentland Suite
12.30-13.00	Closing remarks and consideration of venue for 2013.	Pentland Suite
13.15 -17.00	COST Management Committee Meeting	Ochil Suite