**Permissions for Reproduction of Material**

All reproduced material was cleared for use in this thesis with the kind permission of the original authors.

|  |  |  |
| --- | --- | --- |
| Figure | Reference | Permission granted |
| 1.4 C | ([Nicolson, 2005; Figure 1 C](#_ENREF_8))  | Rightslink 12/11/2012 |
| 1.5 B | Front cover image, Development 2011, Vol. 39 ([Sheets et al., 2011](#_ENREF_11)) | With the permission of *Development* and Teresa Nicolson, Nov 2012. |
| 1.5 C | ([Chiu et al., 2008; Figure 1 B](#_ENREF_3)) | With the permission of Henry Ou (corresponding author). |
| 1.7 A | ([Harris et al., 2003; Figure 2 E](#_ENREF_4)) | With the permission of Edwin Rubel (corresponding author). |
| 1.7 B | ([Chiu et al., 2008; Figure 2 A](#_ENREF_3)) | With the permission of Henry Ou (corresponding author). |
| 1.7 C | ([Ou et al., 2007; Figure 1 A](#_ENREF_10)) | Approved through Rightslink 13/11/12. Also with the permission of Henry Ou (corresponding author). |
| 1.8 Ai, A, D & H  | ([Moon et al., 2011; Figure 1](#_ENREF_7)) | Approved through Rightslink (13/11/12) |
| 1.8 B & C | ([Kindt et al., 2012; Figure 3 A and Aii](#_ENREF_5)) | Approved through Rightslink (13/11/12) |
| 1.8 E | ([Matsuda and Chitnis, 2010; Figure 1 C](#_ENREF_6)) | Approved by CoB (*Development*) and Ajay Chitnis (corresponding author). |
| 1.8 F | ([Behra et al., 2012; Figure 2 D](#_ENREF_1)) | Open access and approved by Martine Behra (corresponding author). |
| 1.8 G | ([Wibowo et al., 2011; Figure 2 E](#_ENREF_12)) | Permission granted by Hernan Lopez-Schier via email. *Development* (CoB) approved too. |
| 6.2 | ([Niethammer et al., 2009; Figure 2 A](#_ENREF_9)) | Approved through Rightslink (13/11/12). |

A number of images were taken from my paper in *Hearing Research* ([Buck et al., 2012](#_ENREF_2)). The permission for the reproduction of these images was granted by Elsevier Ltd. on 4/9/2012.

Figure 4.3. Images taken and adapted from an application note based on a paper presented at the AES 11th International Audio Test and Measurement Conference, Portland, Oregon, U.S.A., May 31, 1992. The images used are courtesy of Steve Temme (personal communication).

Behra, M., Gallardo, V. E., Bradsher, J., Torrado, A., Elkahloun, A., Idol, J., Sheehy, J., Zonies, S., Xu, L., Shaw, K. M., Satou, C., Higashijima, S. I., Weinstein, B. M., Burgess, S. M., 2012. Transcriptional signature of accessory cells in the lateral line, using the Tnk1bp1:EGFP transgenic zebrafish line. Bmc Developmental Biology 12.

Buck, L. M., Winter, M. J., Redfern, W. S., Whitfield, T. T., 2012. Ototoxin-induced cellular damage in neuromasts disrupts lateral line function in larval zebrafish. Hear Res 284, 67-81.

Chiu, L. L., Cunningham, L. L., Raible, D. W., Rubel, E. W., Ou, H. C., 2008. Using the zebrafish lateral line to screen for ototoxicity. J. Assoc. Res. Otolaryngol. 9, 178-190.

Harris, J. A., Cheng, A. G., Cunningham, L. L., MacDonald, G., Raible, D. W., Rubel, E. W., 2003. Neomycin-induced hair cell death and rapid regeneration in the lateral line of zebrafish (Danio rerio). J. Assoc. Res. Otolaryngol. 4, 219-234.

Kindt, K. S., Finch, G., Nicolson, T., 2012. Kinocilia mediate mechanosensitivity in developing zebrafish hair cells. Dev Cell 23, 329-341.

Matsuda, M., Chitnis, A. B., 2010. Atoh1a expression must be restricted by Notch signaling for effective morphogenesis of the posterior lateral line primordium in zebrafish. Development 137, 3477-3487.

Moon, I. S., So, J. H., Jung, Y. M., Lee, W. S., Kim, E. Y., Choi, J. H., Kim, C. H., Choi, J. Y., 2011. Fucoidan promotes mechanosensory hair cell regeneration following amino glycoside-induced cell death. Hear Res 282, 236-242.

Nicolson, T., 2005. The genetics of hearing and balance in zebrafish. Annu Rev Genet 39, 9-22.

Niethammer, P., Grabher, C., Look, A. T., Mitchison, T. J., 2009. A tissue-scale gradient of hydrogen peroxide mediates rapid wound detection in zebrafish. Nature 459, 996-999.

Ou, H. C., Raible, D. W., Rubel, E. W., 2007. Cisplatin-induced hair cell loss in zebrafish (Danio rerio) lateral line. Hear. Res. 233, 46-53.

Sheets, L., Trapani, J. G., Mo, W. K., Obholzer, N., Nicolson, T., 2011. Ribeye is required for presynaptic Ca(V)1.3a channel localization and afferent innervation of sensory hair cells. Development 138, 1309-1319.

Wibowo, I., Pinto-Teixeira, F., Satou, C., Higashijima, S., Lopez-Schier, H., 2011. Compartmentalized Notch signaling sustains epithelial mirror symmetry. Development 138, 1143-1152.