



**Figure S1: Thoracic wound closes spontaneously within 3-4 days after thoracotomy.**

Photographs of the ventral side of the same fish at different time points after performing 1 mm-long incision through the body wall. (a) At 6 hours post thoracotomy (hpt), the thorax has an open wound seen as a dark window through the whitish dermis. A transparent epithelium already starts to cover the wound, reducing the diameter of the hole (encircled area). (b) At 3 days post thoracotomy (dpt), the wound has been completely sealed by the sheet of epidermis. (c) At 5 dpt, dermis has contracted around the wound. (d) At 7 dpt, the thoracic wound has been almost perfectly healed by the restoration of the dermal tissue.