B. lanceolatum ISH protocol

Step 1- Rehydrate by washing to 40%EtOH- 2- Wash with PBT 3- Proteinase K treatment: max. time (- Gastrulae: - Early-Mid Neurula: - Late Neurula: - Larva <36h - Larva >36h		Minutes x times 5' 5' x3
 4a- Stop Proteinase K by adding 10ul of 10% Glycine 4- Wash with Glycine 2mg/ml made in PBT 5- Wash with PBT 6- Re-fix with PFA in PBT 7- Wash with 0.1M Triethanolamine^a (pH 8) 8- Incubate with 2.5ul/ml de Acetic anhydride in 0.1M Triethanolamine 9- Incubate with 5ul/ml de Acetic anhydride in 0.1M Triethanolamine 10- Wash with PBT (<i>Transfer to nests</i>) 10- Wash with HybBuffer^b 12- Pre-incubate with HybBuffer 13a- Denaturize the probes 13b- Hybridization 		5' x2 5' x2 30' 5' x2 5' (no shake) 5' (no shake) 5' x2 5' 1-2h (>65°C) 5' (70°) o/n (>65°C)
 14- Wash with PREHEATED HybBuffer 15- Wash with PREHEATED WashSolution^c 16- Wash with MABT^d 17- Incubate in MABT + 2% blocking reagent (BR) 18- Incubate in MABT + 2% BR + 10% Filtered Sheep Serum 19- Incubate in MABT+ 2% BR + 1% Sheep Serum + Antibody 19b- Wash with MABT 19c- Wash with MABT 		10' (65°C) 15' x4 (65°C) 15' x2 1-2h 1-2h 2-4h (or o/n 4°C) 30rpm 5'x3 10'x5
20- Wash with MABT (<i>Transfer to 4-well plates</i>) 21a- Wash with MABT:AP Buffer (-Mg) (50:50) 21b- Wash with AP Buffer (-Mg) 21c- Wash with AP Buffer (+Mg) ^e 22- Develop with filtered (0.80um) BMP or 2ul NTB + 3.5 BCIP per 10ml 23- Stop and wash with MABT DOUBLE ISH: - Inhibit the alkaline phosphatase with MABT pH1, 10' - go to step 16		20'x5 5' 5' 5'
24- Post-fix PFA 25- Wash PBT		30' or o/n 5'x3

REAGENTS

- a- 0.1M Triethanolamine (pH 8.0) (10ml) 150ul de Triethanolamine 9.85ml H_2O take to pH8.0 with HCl 1N (entre 100 y 200ul?)
- b- HybBuffer (20ml) 10ml Formamide 5ml 20xSSC 400ul yeast RNA 50mg/ml 200ul heparin 400ul 50x Denhart 20ul Tween20 200ul EDTA 0.5M
- c- WashBuffer (20ml) 10ml Formamide 5ml 20xSSC 20ul Tween20 200ul EDTA 0.5M
- d- MABT 5x (1x needs 0.1% Tween20) 29.05g Maleic Ac. 21.94g NaCl take to pH8.0 with NaOH

e- AP(+Mg)

1ml Tris pH9.5 1M 500ul MgCl₂ 1M 200ul NaCl 5M 10ul Tween20