

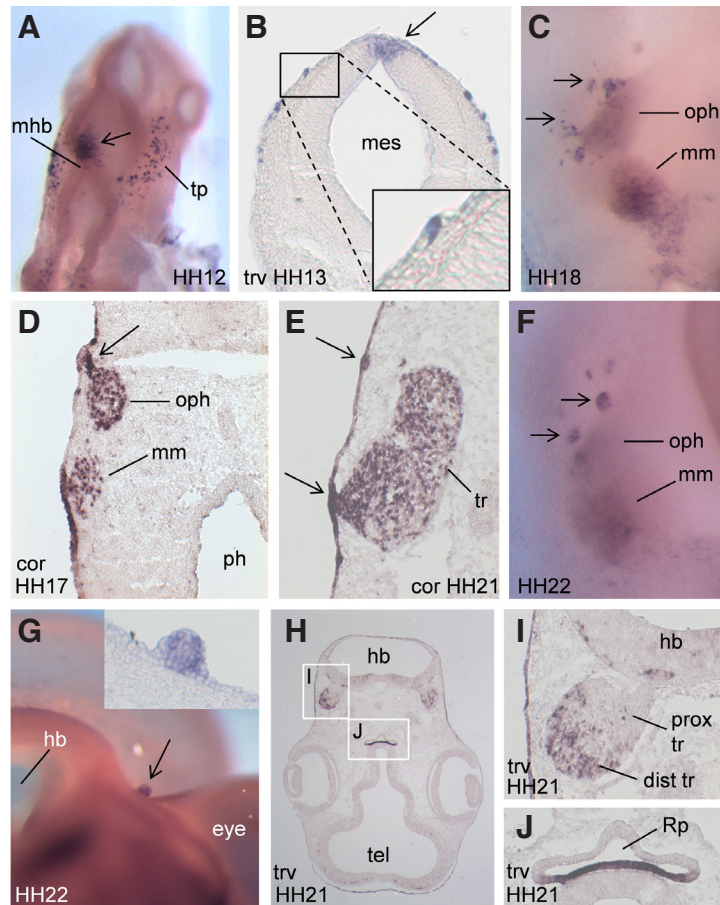
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**SUPPLEMENTARY MATERIAL**

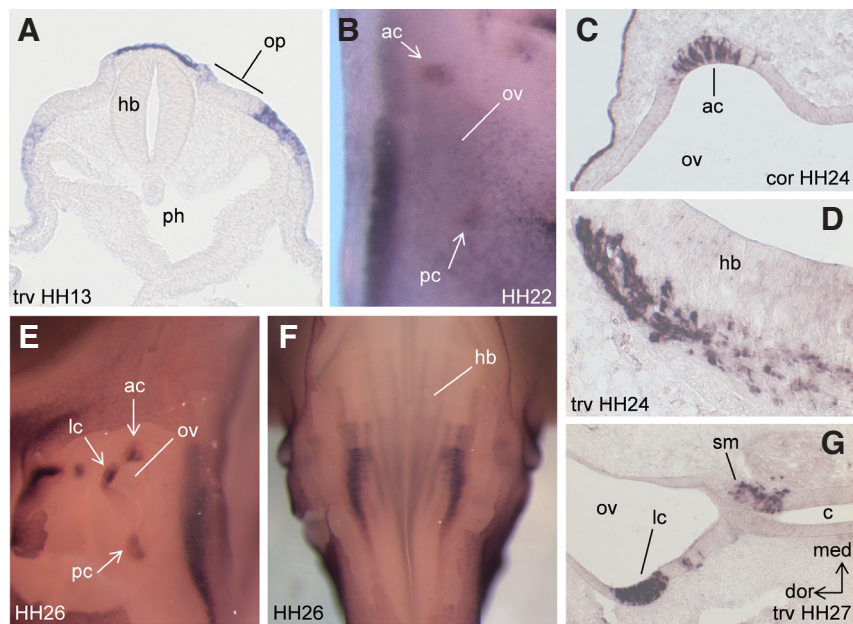
**corresponding to:**

***CXCL14* expression during  
chick embryonic development**

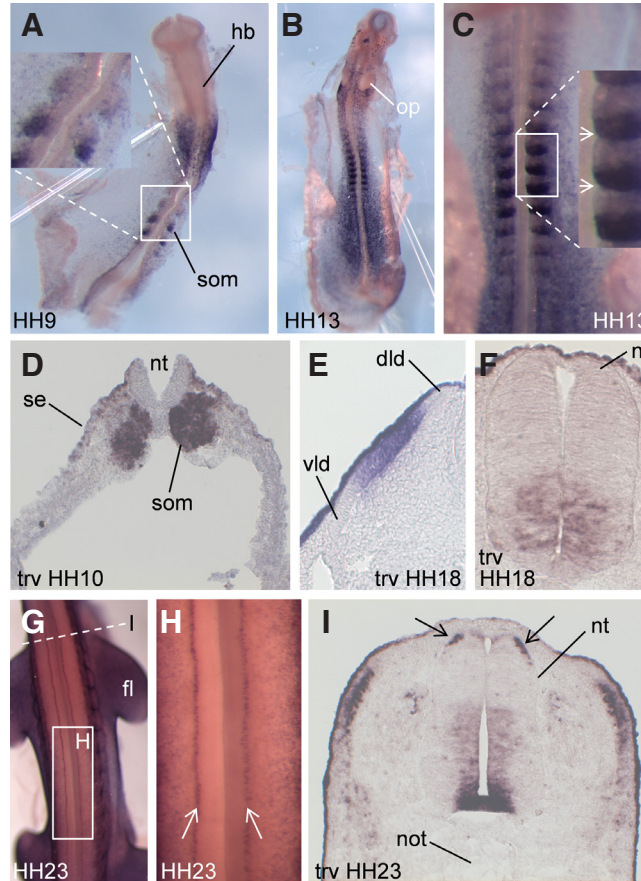
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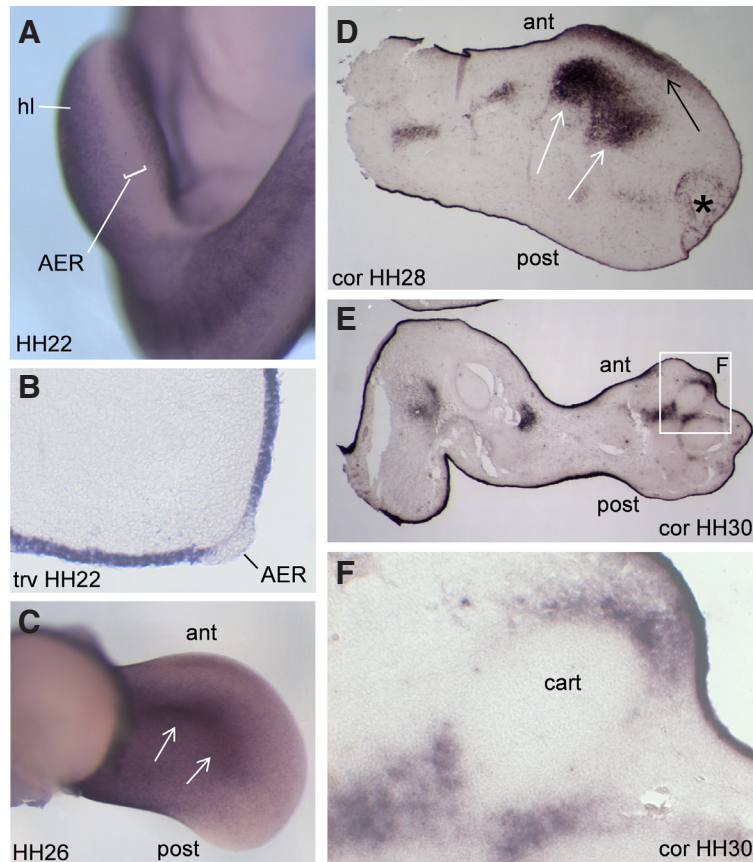
**Supplementary Fig. 1. Expression of CXCL14 in the trigeminal placode and ganglion.** (A) HH12. (B) HH13, transverse section. The inset is a magnified image of the boxed region. An arrow in A and B indicates expression in the mesencephalon. (C) HH18; a magnified view of the boxed region in Fig. 1E. Arrows indicate clusters of CXCL14-expressing ectodermal cells. (D) HH17, coronal section. An arrow indicates a trail of CXCL14-expressing cells between the trigeminal placode and ganglion. (E) HH21, coronal section. The upper arrow indicates a CXCL14-positive thickening of ectoderm overlying the trigeminal ganglion, while the lower arrow indicates a CXCL14-positive connection between the ectoderm and ganglion. (F,G) HH22. Arrows in F indicate clumps of CXCL14-expressing ectodermal cells. G, caudal view of an embryo that has been transected at hindbrain level. An arrow indicates a CXCL14-expressing ectodermal protrusion (seen in profile), overlying the ophthalmic branch of the trigeminal ganglion. The inset is a transverse section through a similar protrusion at the level of the trigeminal ganglion. (H-J) HH21, transverse section; I and J are magnified images of the boxed regions in H. mhb, midbrain-hindbrain boundary; tp, trigeminal placode; mes, mesencephalon; oph, ophthalmic lobe of the trigeminal ganglion; mm, maxillomandibular lobe of the trigeminal ganglion; ph, pharynx; tr, trigeminal ganglion; hb, hindbrain; tel, telencephalon; dist tr, distal trigeminal; prox tr, proximal trigeminal; Rp, Rathke's pouch; trv, transverse; cor, coronal.



**Supplementary Fig. 2. Expression of CXCL14 in the otic vesicle and hindbrain.** (A) HH13, transverse section. (B) HH22. Arrows indicate expression in anterior and posterior domains of the otic vesicle. (C,D) HH24. C, coronal section through the anterior otic vesicle. D, transverse section through the hindbrain. (E,F) HH26. Note that in E the surface ectoderm has been peeled away to allow visualisation of the otic vesicle. Arrows indicate three major domains of expression in the otic vesicle epithelium. In F the neural tube has been opened along the dorsal midline in order to visualise expression in the hindbrain. (G) HH27, transverse section; dorsal (dor) is to the left and medial (med) is up. op, otic placode; hb, hindbrain; ph, pharynx; ov, otic vesicle; ac, anterior crista; pc, posterior crista; lc, lateral crista; sm, saccular macula; c, cochlea; trv, transverse; cor, coronal.



**Supplementary Fig. 3. Expression of CXCL14 during somitogenesis and in the developing spinal cord. (A)** HH9 and **(B,C)** HH13. *C* is a ventral view of the embryo in *B*. In *A* and *C*, the inset is a magnified image of the boxed region. Arrows in *C* mark the boundaries of a somite. In *C*, anterior is up. **(D)** HH10; a transverse section through a caudal region of the embryo. **(E)** HH18, transverse section at hindlimb level. **(F)** HH18, transverse section at forelimb level. **(G-I)** HH23. White dashed line in *G* indicates the approximate plane of sectioning through the neural tube in *I*. *H* is a magnified view of the boxed region in *G*. The arrows in *H* and *I* indicate CXCL14-expressing cells in the dorsolateral neural tube. *hb*, hindbrain; *som*, somite; *op*, otic placode; *nt*, neural tube; *se*, surface ectoderm; *vld*, ventral lip of the dermomyotome; *dld*, dorsal lip of the dermomyotome; *fl*, forelimb; *not*, notochord; *trv*, transverse.



**Supplementary Fig. 4. Expression of CXCL14 during development of the limbs. (A,B) HH22.** A, right hindlimb bud. A bracket indicates the width of the apical ectodermal ridge (AER), in which CXCL14 expression is absent. B, transverse section at forelimb level. **(C) HH26,** ventral view of the left forelimb bud. **(D) HH28,** coronal section through forelimb. White arrows in C and D indicate the major band of mesenchymal CXCL14 expression in the anterior limb bud, while the black arrow in D indicates the most anterior band of mesenchymal expression. An asterisk indicates a region of artifactual staining. **(E,F) HH30,** coronal section through forelimb. F is a magnified view of the box in E. Anterior is up in C-F. hl, hindlimb; ant, anterior; post, posterior; cart, cartilage; trv, transverse; cor, coronal.