



Msx genes define a population of mural cell precursors required for head blood vessel maturation.

Miguel Lopes, Olivier Goupille, Cécile Saint Cloment, Yvan Lallemand, Ana Cumano, Benoît Robert

► To cite this version:

Miguel Lopes, Olivier Goupille, Cécile Saint Cloment, Yvan Lallemand, Ana Cumano, et al.. Msx genes define a population of mural cell precursors required for head blood vessel maturation.. Development -Cambridge-, 2011, 138 (14), pp.3055-66. 10.1242/dev.063214 . pasteur-00611700

HAL Id: pasteur-00611700

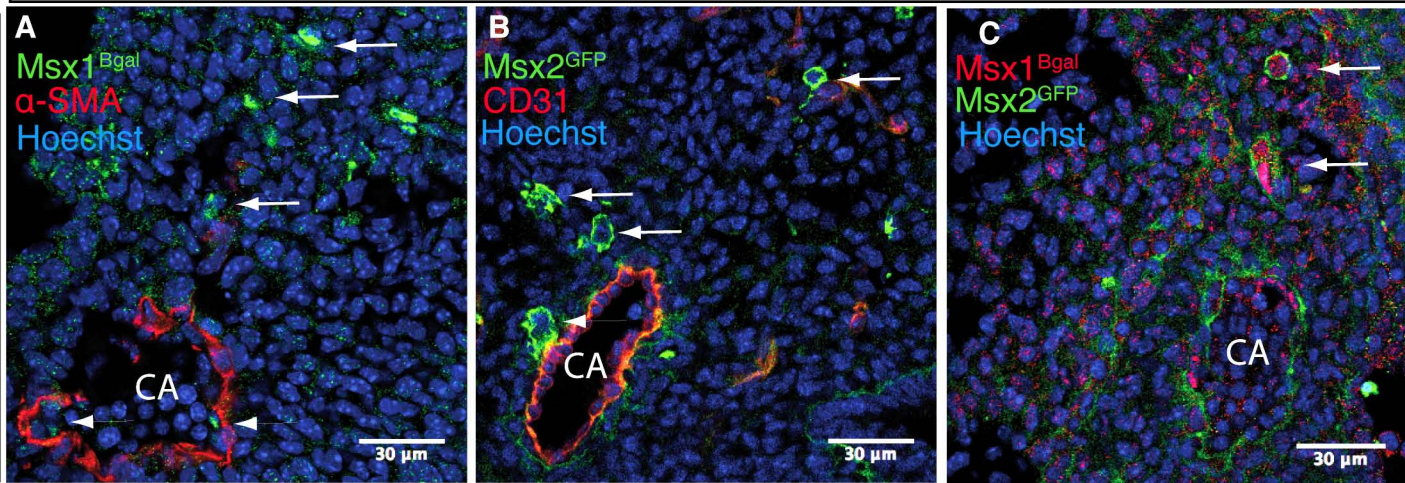
<https://pasteur.hal.science/pasteur-00611700>

Submitted on 27 Jan 2012

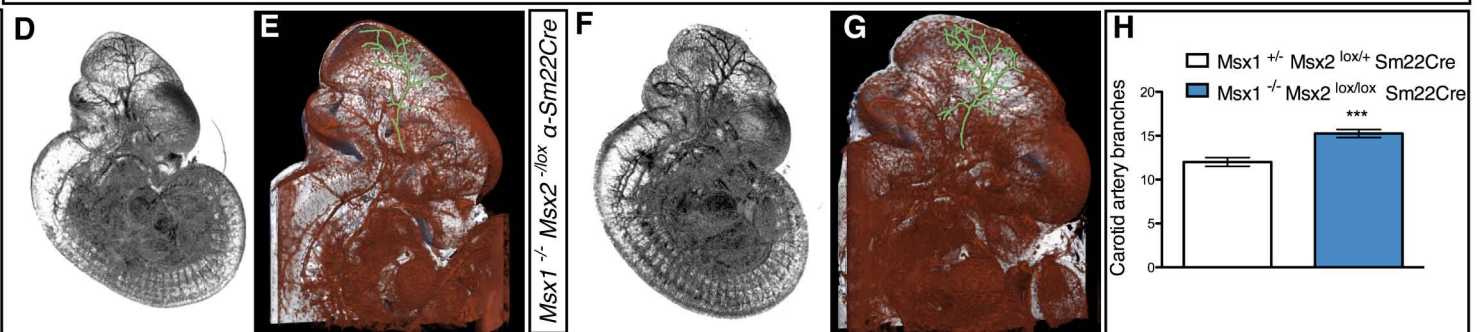
HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

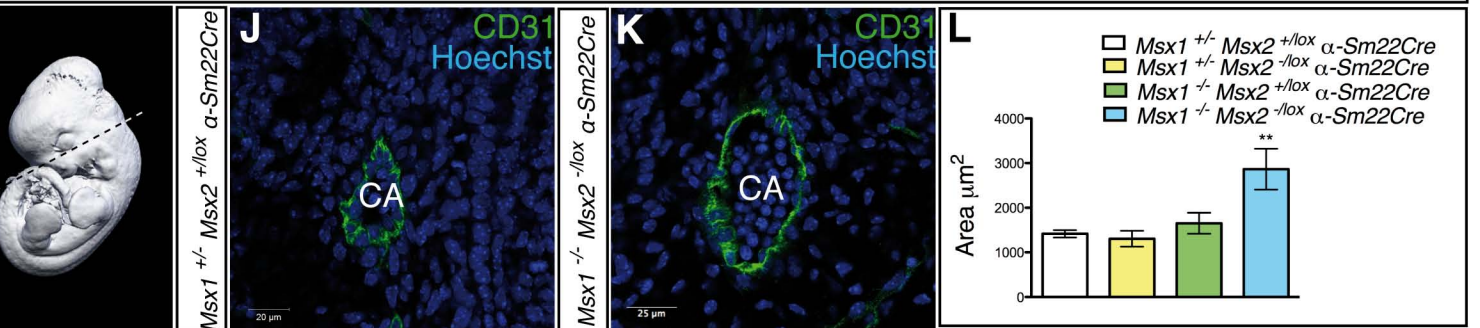
Carotid artery transversal section - E11.5



E11.5 - CD31



Carotid artery transversal section - E11.5



Dorsal Aorta transversal section - E11.5

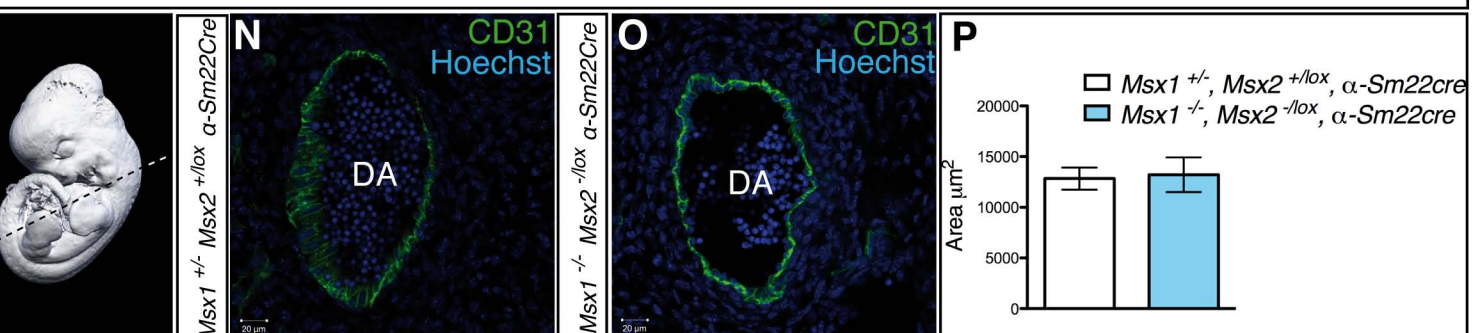
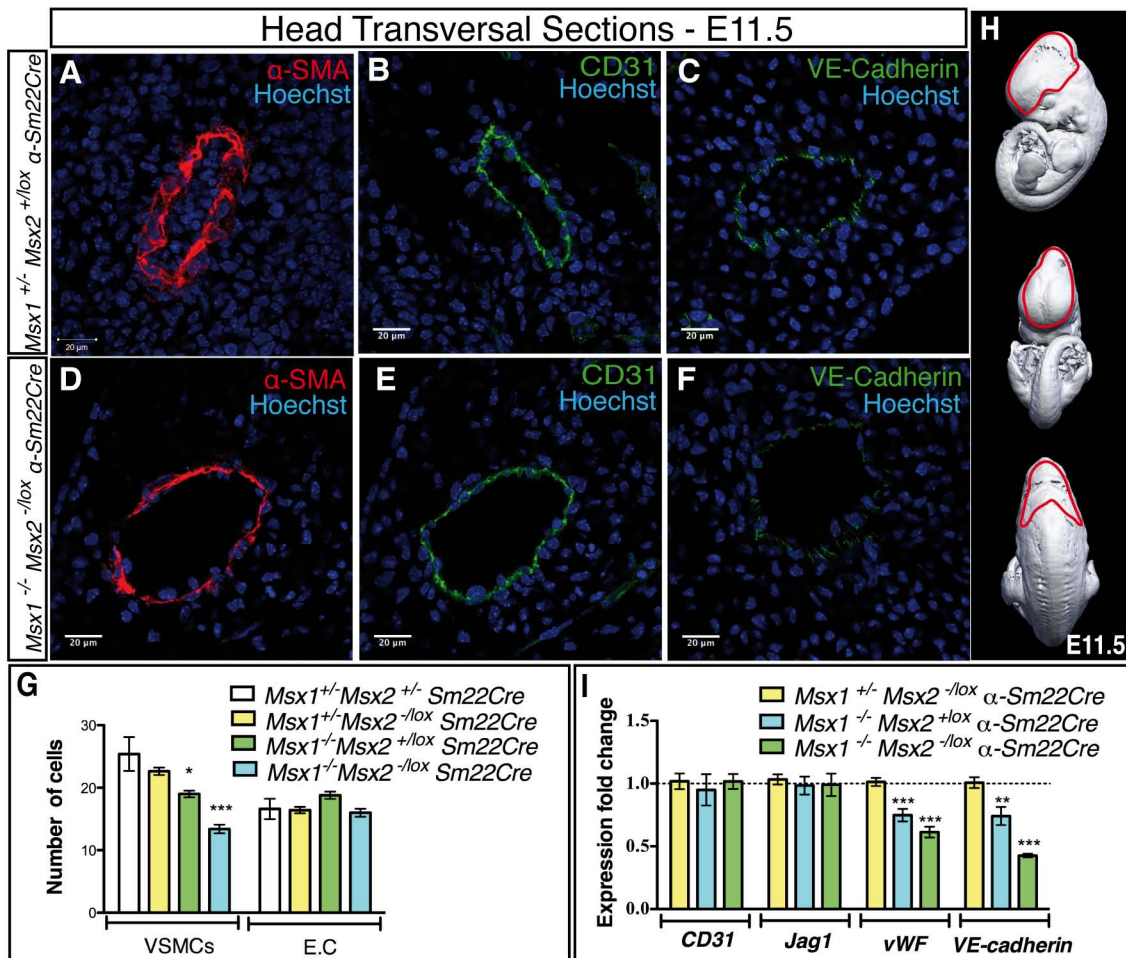


Figure 1



G

Number of cells

VSMCs E.C.

$\square$ $Msx1^{+/-}; Msx2^{+/-}; \alpha-Sm22Cre$
 $\square$ $Msx1^{+/-}; Msx2^{-/lox}; \alpha-Sm22Cre$
 $\square$ $Msx1^{-/-}; Msx2^{+/-}; \alpha-Sm22Cre$
 $\square$ $Msx1^{-/-}; Msx2^{-/lox}; \alpha-Sm22Cre$

I

Expression fold change

CD31 Jag1 vWF VE-cadherin

$\square$ $Msx1^{+/-}; Msx2^{-/lox}; \alpha-Sm22Cre$
 $\square$ $Msx1^{-/-}; Msx2^{+/-}; \alpha-Sm22Cre$
 $\square$ $Msx1^{-/-}; Msx2^{-/lox}; \alpha-Sm22Cre$

Figure 2

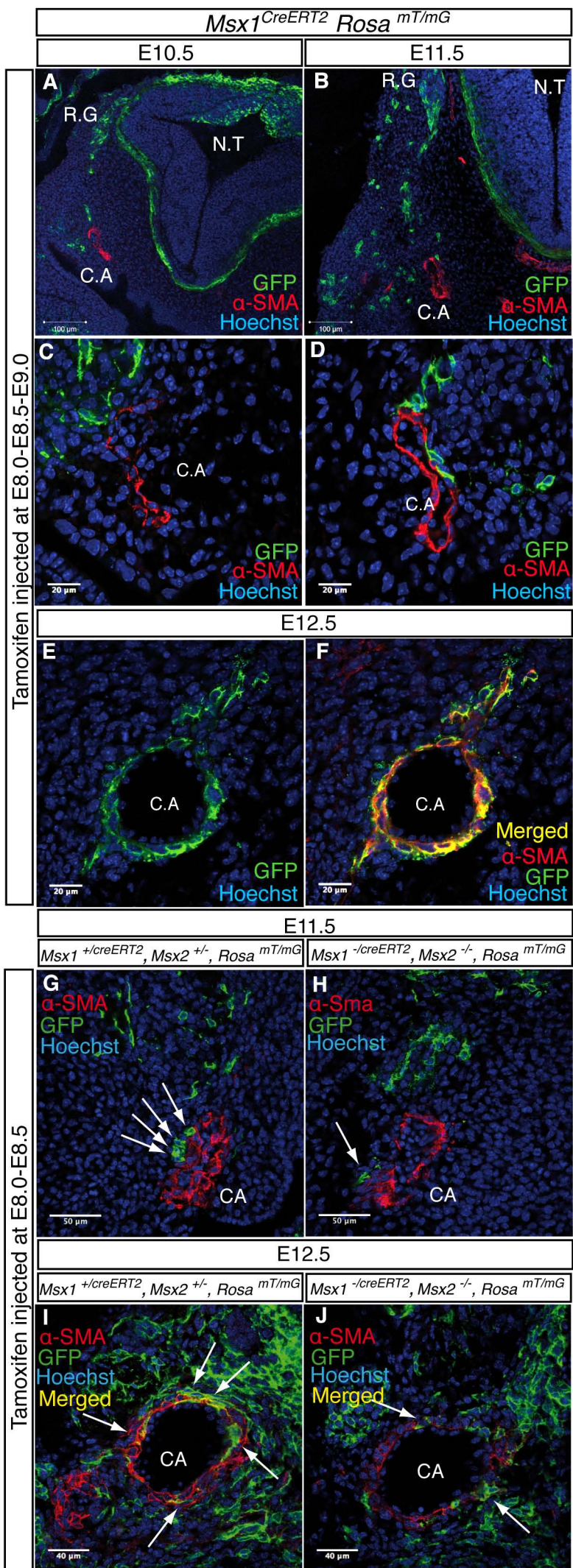


Figure 3

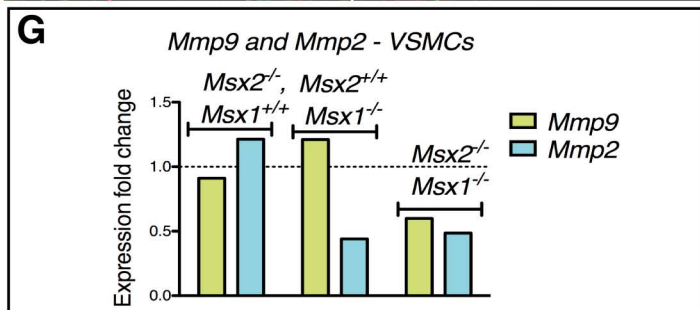
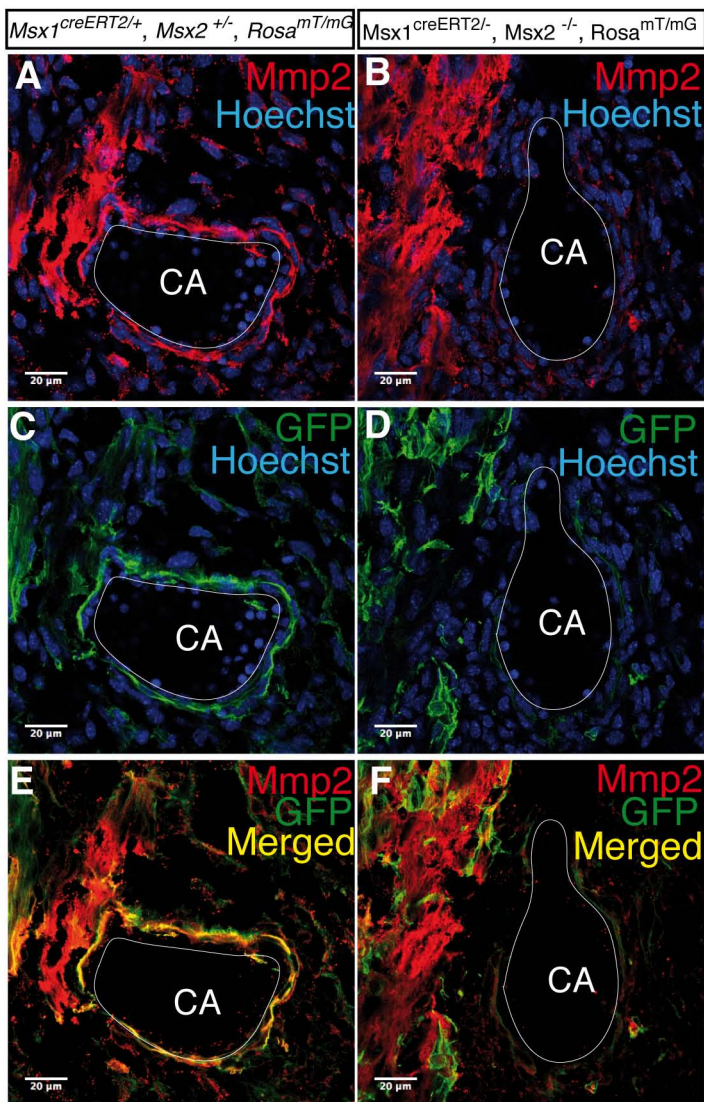
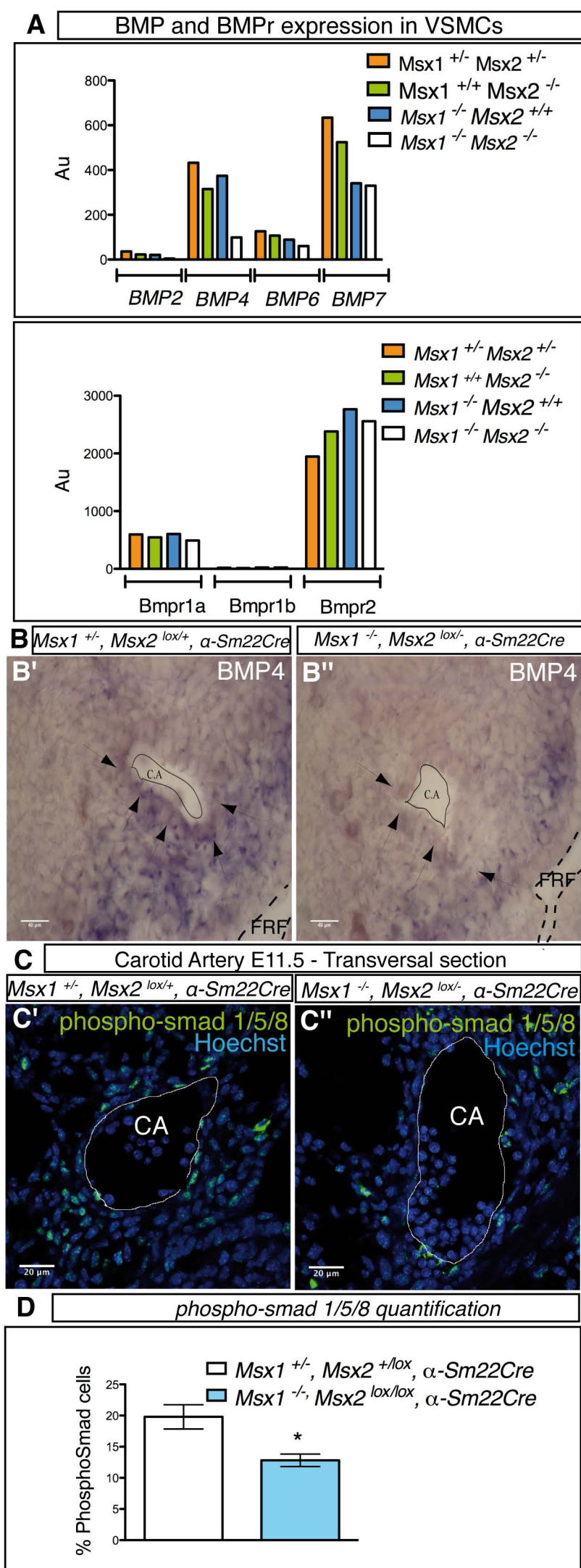


Figure 4



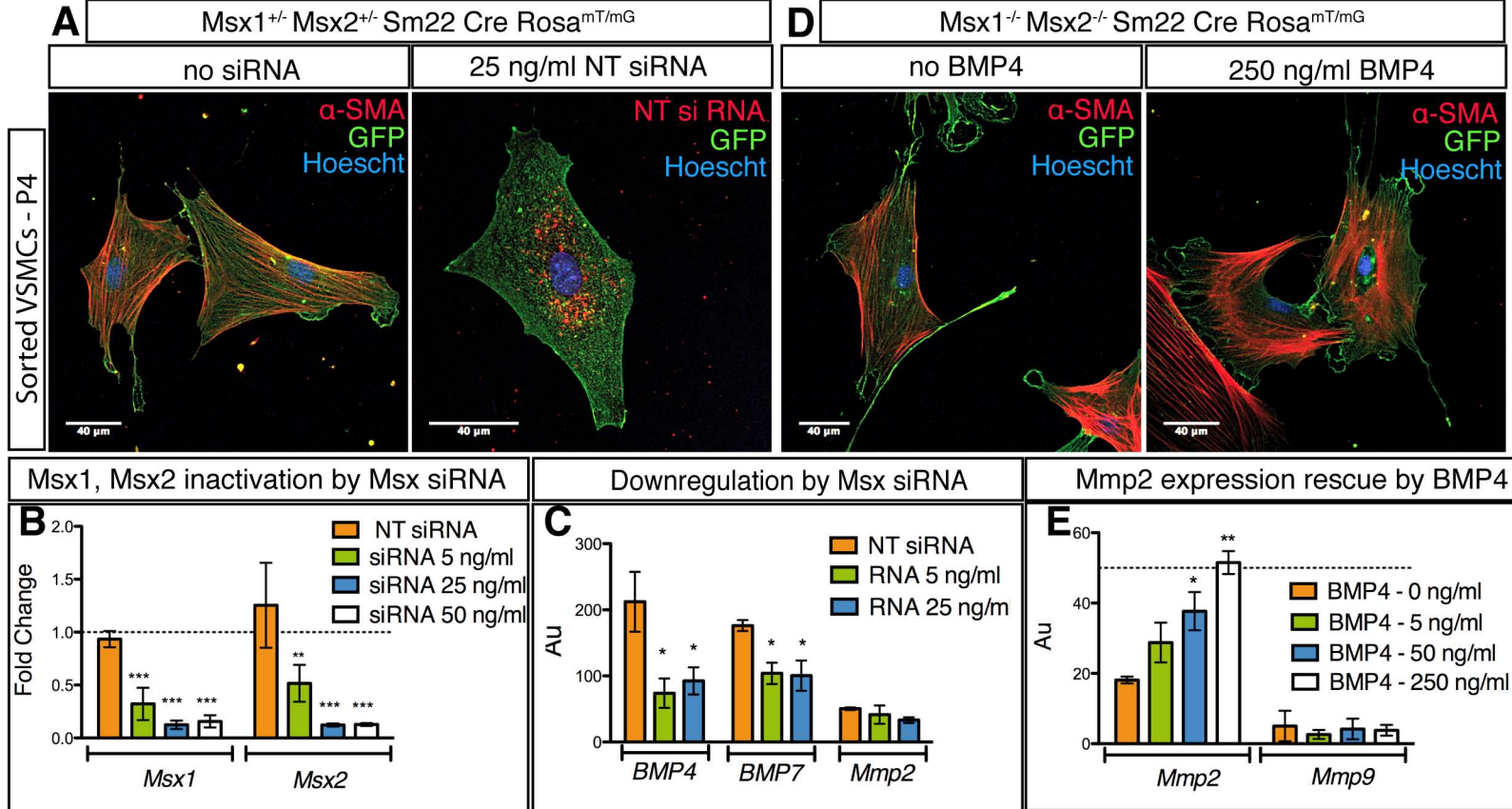


Figure 6

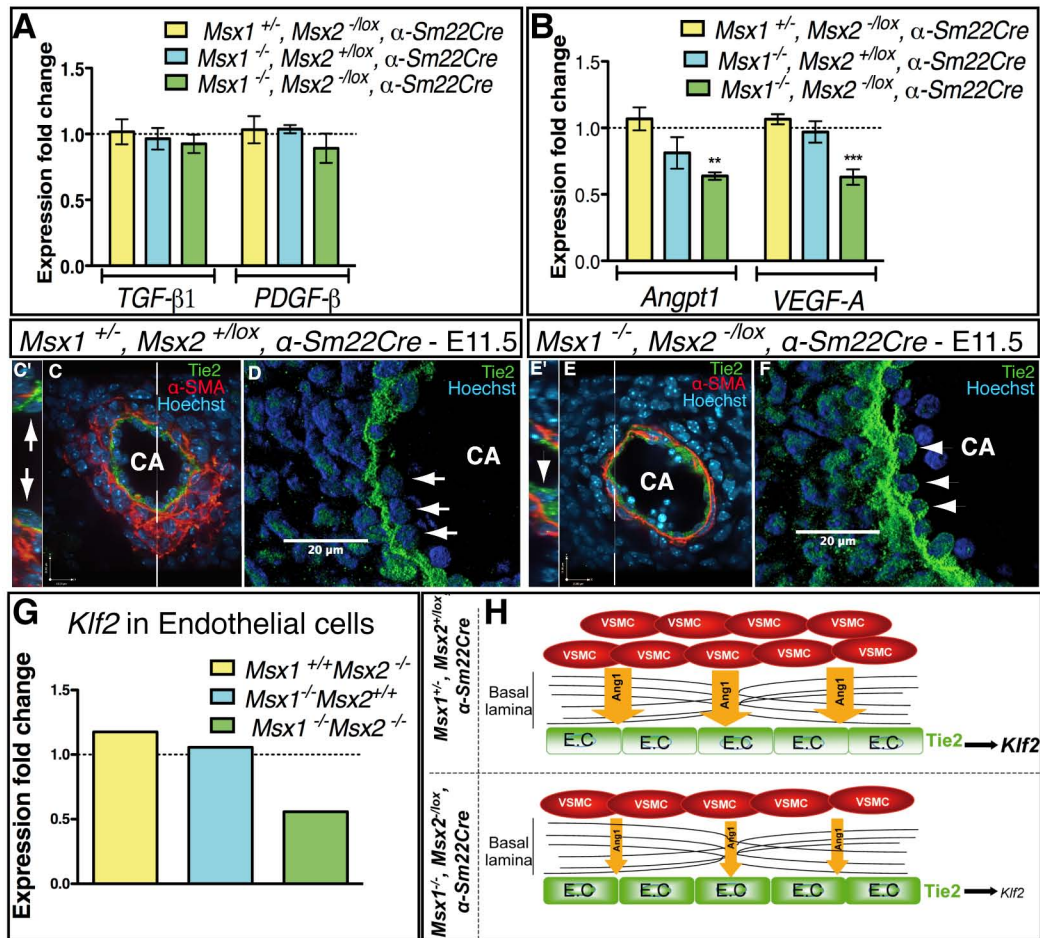


Figure 7

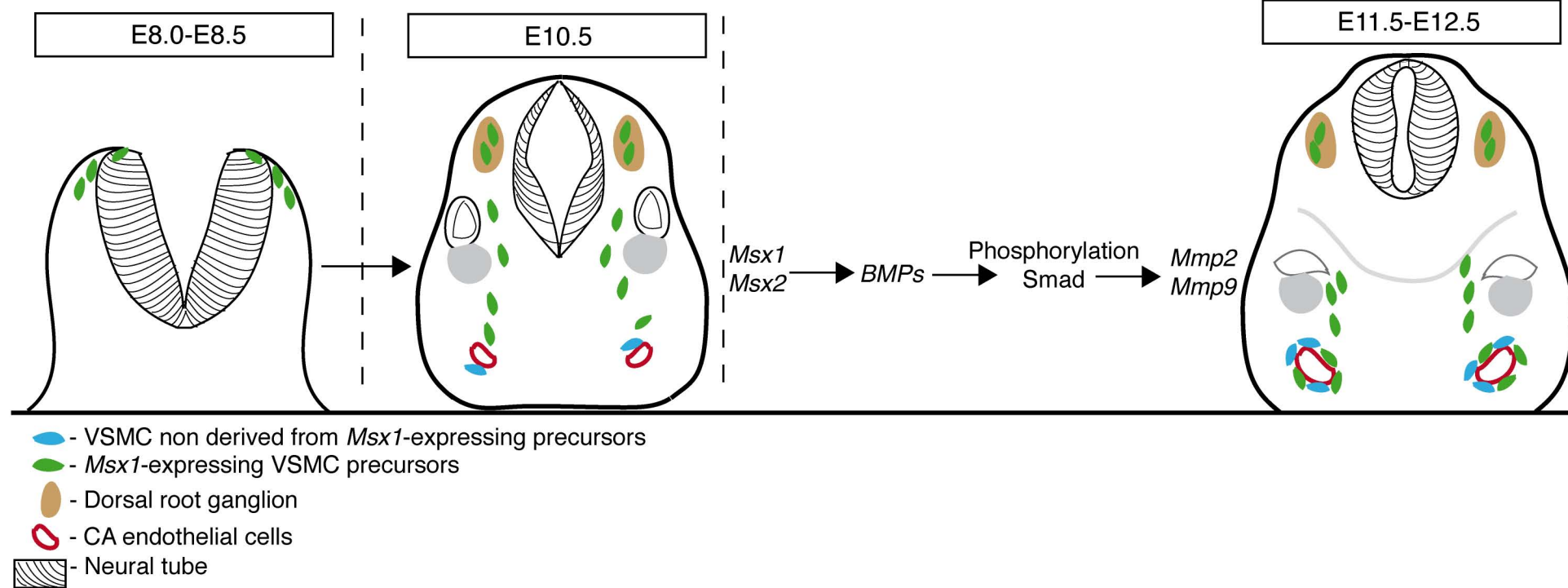


Figure 8