

Supporting Information

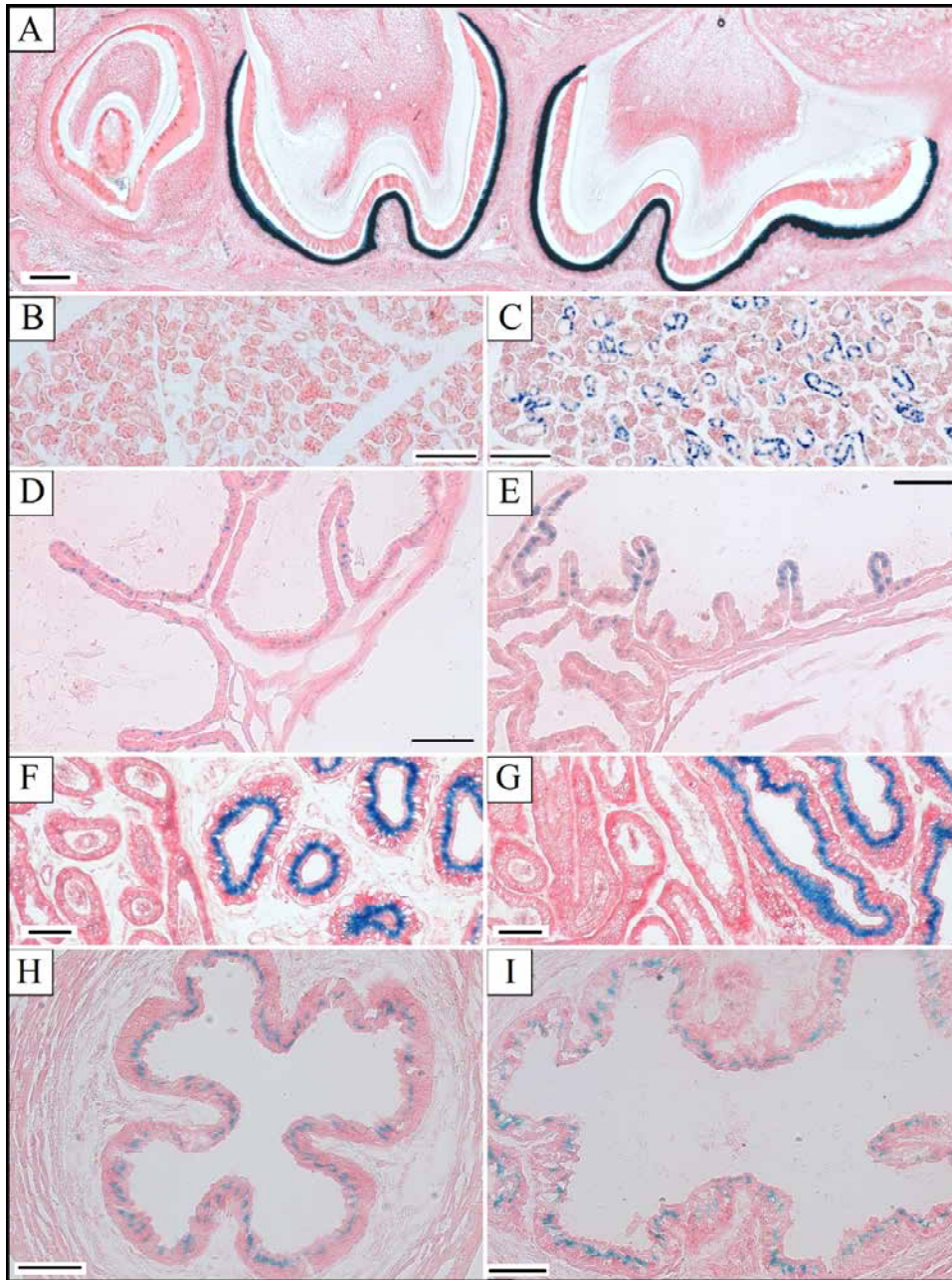
Expression of kallikrein 4 (Klk4) in dental and non-dental tissues

SIMMER JP, RICHARDSON AS, SMITH CE, HU Y, HU JC-C

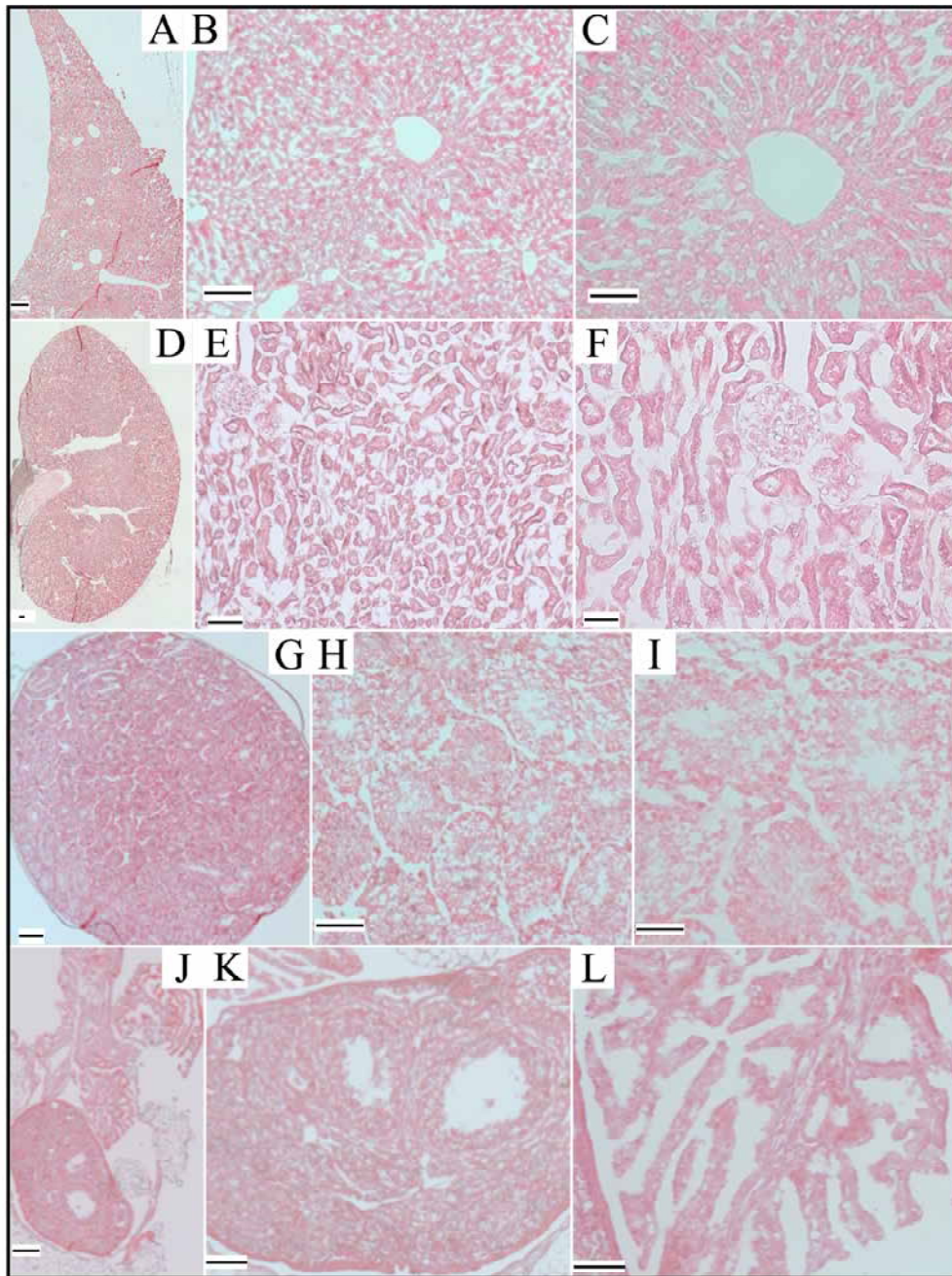
University of Michigan School of Dentistry, Ann Arbor, MI, USA; and
Faculty of Dentistry, McGill University, Montreal, QC, Canada

Fig. S1: Overnight *lacZ* histostaining of wild-type and *Klk4*^{*lacZ/lacZ*} null mouse tissues.

Fig. S2: Lack of Klk4 expression in liver, kidney, testis, ovary, and oviduct with overnight incubation.



Supporting Fig. 1. Overnight *lacZ* histostaining of wild-type and *Klk4^{lacZ/lacZ}* null mouse tissues. **A:** Day 14 *Klk4^{lacZ/lacZ}* null mouse molars show deep histostaining in ameloblasts with very little background staining in nearby structures. **B:** Wild-type submandibular gland shows no background staining. **C:** Intralobular ducts in the submandibular gland show positive nuclear staining for *Klk4* expression. This was by far the highest expression of *Klk4* outside of maturation stage ameloblasts. **D:** Wild-type prostate epithelia showed spotty endogenous *lacZ* histostaining. **E:** Prostate epithelia showed only islands of relatively weak nuclear staining indicative of *Klk4* expression, even with the overnight incubation. **H-I:** Epithelia in the head of the epididymis showed strong and equal cytoplasmic staining in both wild-type and *Klk4^{lacZ/lacZ}* null mice, indicative of endogenous (not *Klk4* driven) β -galactosidase activity. **F-I:** The wild-type and *Klk4^{lacZ/lacZ}* null mice showed detectable levels of endogenous (cytoplasmic) β -galactosidase activity in the vas deferens. Scale bars: A/B/C/F/G, 100 μ m; D/E/H/I, 50 μ m.



Supporting Fig. 2. Lack of Klk4 expression (no nuclear staining) in liver, kidney, testis, ovary, and oviduct with overnight incubation. Wild-type sections for these tissues were negative (data not shown). All panels are from $Klk4^{lacZ/lacZ}$ null mice. **A-C:** liver; **D-F:** kidney; **G-I:** testis; **J-K:** ovary; **L:** oviduct. Bars on left: 200 μm ; middle: 100 μm ; right: 50 μm .