

## PUBLICATIONS

LIST BY YEAR: [2017](#) <sup>[1]</sup> | [2016](#) | [2015](#) | [2014](#) | [2013](#) | [2012](#) | [2011](#) | [2010](#) | [2009](#) | [2008](#) | [2007](#) | [2006](#) | [2005](#)

\*\*Authors in BOLD denote Klein Lab members

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### 2017

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1. Cole JB, Manyama M, Larson JR, Liberton DK, Ferrara TM, Riccardi SL, Li M, Mio W, **Klein OD**, Santorico SA, Hallgrímsson B, Spritz RA. Human facial shape and size heritability and genetic correlations. *Genetics* 2017 Feb;205(2):967-78. [Click Here to View](#) <sup>[2]</sup>
2. **Wald T**, Spoutil F, Osickova A, Prochazkova M, Benada O, Kasperek P, Bumba L, **Klein OD**, Sedlacek R, Sebo P, **Prochazka J**, Osicka R. Intrinsically disordered proteins drive enamel formation via an evolutionarily conserved self-assembly motif. *Proc Natl Acad Sci U S A* 2017 Feb;114(9). [Click Here to View](#) <sup>[3]</sup>
3. Niethamer TK, Larson AR, O'Neil AK, Bershteyn M, Hsiao EC, **Klein O**, Pomerantz JH, Bush JO. EPHRIN-B1 mosaicism drives cell segregation in craniofrontonasal syndrome hiPCS-Derived neuroepithelial cells. *Stem Cell Reports* 2017 Mar;8(3):529-37. [Click Here to View](#) <sup>[4]</sup>
4. Tsai YH, **Nattiv R**, Dedhia PH, Nagy MS, Chin AM, Thomson M, **Klein OD**, Spence J. In vitro patterning of pluripotent stem cell-derived intestine recapitulates in vivo human development. *Development* 2017 Mar;144(6):1045-55. [Click Here to View](#) <sup>[5]</sup>
5. **Seidel K**, **Marangoni P**, **Tang C**, **Houshmand B**, **Du W**, Maas RL, Murray S, Oldham MC, **Klein OD**. Resolving stem and progenitor cells in the adult mouse incisor through gene co-expression analysis. *Elife* 2017 May;6. pii: e24712. doi: 10.7554/eLife.24712. [Click Here to View](#) <sup>[6]</sup>
6. Percival CJ, **Marangoni P**, **Tapaltsyan V**, **Klein O**, Hallgrímsson B. The Interaction of Genetic Background and Mutational Effects in Regulation of Mouse Craniofacial Shape. *G3 (Bethesda)*. 2017 May;7(5):1439-50. [Click Here to View](#) <sup>[7]</sup>
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8. **Zheng X**, **Goodwin AF**, **Tian H**, **Jheon AH**, **Klein OD**. Ras Signaling Regulates Stem Cells and Amelogenesis in the Mouse Incisor. *J Dent Res*. 2017 Jun:22034517717255. doi: 10.1177/0022034517717255. [Epub ahead of print]. [Click Here to View](#) <sup>[9]</sup>
9. **Cao H**, Alrejaye N, **Klein OD**, **Goodwin AF**, Oberoi S. A review of craniofacial and dental findings of the RASopathies. *Orthod Craniofac Res*. 2017 Jun;20 Suppl 1:32-8. [Click Here to View](#) <sup>[10]</sup>
10. **Prochazkova M**, Häkkinen TJ, **Prochazka J**, Spoutil F, **Jheon AH**, Ahn Y, Krumlauf R, Jernvall J, **Klein OD**. FGF signaling refines Wnt gradients to regulate the patterning of

- taste papillae. Development. 2017 Jun;144(12):2212-21. [Click Here to View](#) <sup>[11]</sup>
11. **Naveau A, Zhang B, Meng B, Sutherland MT, Prochazkova M, Wen T, Marangoni P, Jones KB, Cox TC, Ganss B, Jheon AH, Klein OD.** Isl1 Controls Patterning and Mineralization of Enamel in the Continuously Renewing Mouse Incisor. *J Bone Miner Res.* 2017 Jun 26. doi: 10.1002/jbmr.3202. [Epub ahead of print]. [Click Here to View](#) <sup>[12]</sup>
  12. Kousa YA, Roushangar R, Patel N, Walter A, **Marangoni P**, Krumlauf R, **Klein OD**, Schutte BC. IRF6 and SPRY4 Signaling Interact in Periderm Development. *J Dent Res.* 2017 July;96(11): 1306-13. doi: 10.1177/0022034517719870. [Click Here to View](#) <sup>[13]</sup>
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  14. **Hu JK, Du W**, Shelton SJ, Oldham MC, DiPersio CM, **Klein OD.** An FAK-YAP-mTOR Signaling Axis Regulates Stem Cell-Based Tissue Renewal in Mice. *Cell Stem Cell.* 2017 Jul;21(1):91-106.e6. [Click Here to View](#) <sup>[15]</sup> [[Commentary on our paper in BioEssays - Click Here to View](#)] <sup>[16]</sup>
  15. **Du W, Hu JK, Du W, Klein OD.** Lineage tracing of epithelial cells in developing teeth reveals two strategies for building signaling centers. *J Biol Chem.* 2017 Sep;292(36):15062-9. [Click Here to View](#) <sup>[17]</sup>
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3. Rooney GE, **Goodwin AF**, Depeille P, **Sharir A**, Schofield CM, Yeh E, Roose JP, **Klein OD**, Rauen KA, Weiss LA, Ullian EM. Human iPS cell-derived neurons uncover the impact of increased Ras signaling in Costello syndrome. *J Neurosci* 2016 Jan;36(1):142-52. [Click Here to View](#) <sup>[21]</sup>
4. **Belinson H**, Nakatani J, Babineau BA, Birnbaum RY, Ellegood J, Bershteyn M, McEvelly RJ, Long JM, Willert K, **Klein OD**, Ahituv N, Lerch JP, Rosenfeld MG, Wynshaw-Boris A. Prenatal  $\beta$ -catenin/Brn2/Tbr2 transcriptional cascade regulates adult social and stereotypic behaviors. *Mol Psychiatry* 2016 Oct;21(10):1417-33. [Click Here to View](#) <sup>[22]</sup>
5. **Du W, Prochazka J, Prochazkova M, Klein OD.** Expression of FGFs during mouse tongue development. *Gene Expr Patterns* 2016 Mar;20(2):81-7. <sup>[23]</sup>[Click Here to View](#) <sup>[23]</sup>
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