

Genome Editing: A New Horizon for Oral and Craniofacial Research

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Appendix

Appendix Table. Applications of CRISPR/Cas9 in Oral and Craniofacial Field

Gene	Function	Application	References
<i>ACVR1B</i>	Cancer	Knock-out in OSC-19 cell line	Loomans et al., 2017
<i>FN</i>	Cancer	Knock-out in SACC-83 cell line	Wang et al., 2015
<i>FN</i>	Cancer	Knock-out in CNE-2Z cell line	Lv et al., 2017
<i>hTERT</i>	Cancer	Knock-out in SCC-15 cell line	Wu et al., 2017
<i>KRT17</i>	Cancer	Knock-out in cell line	Khanom et al., 2016
<i>LDB1</i>	Cancer	Knock-out in VU-SCC-1729 cell	Simonik et al., 2016
<i>MUL1</i>	Cancer	Knock-out in FaDu cell line	Kim et al., 2018
<i>p75(NTR)</i>	Cancer	Knock-out in SCC-9 cell line	Huang et al., 2017
<i>Golgb1</i>	Palatal development	Indel in mouse model	Lan et al., 2016
<i>Itga8</i>	Facial development	Indel in zebrafish	Talbot et al., 2016
<i>kif5B</i>	Craniofacial skeleton morphogenesis	Indel in zebrafish	Santos-Ledo., 2017
<i>Lrp5</i>	Craniofacial skeleton morphogenesis	Knock-out in zebrafish	Willems et al., 2015
<i>msx1</i>	Tooth and palatal development	Indel in mouse model	Mitsui et al., 2016
<i>MSX1</i>	Tooth and palatal development	Indel in human embryonic stem cells	Xue et al., 2017
<i>Pax9</i>	Development of craniofacial mesenchymal tissues	Indel in mouse model	Feng et al., 2016
<i>smchd1</i>	Craniofacial skeleton morphogenesis	Indel in zebrafish	Shaw et al., 2017
Wnt pathways genes	Palatal development	Indel in zebrafish	Rochard et al., 2016
<i>PTPN2</i>	Periodontal disease	Knock-out in OKF6 keratinocytes	Zhang et al., 2018

Appendix References

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