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	Environmental oxygen tension		
	5%	20%	
Mouse blastocyst ROS production	Lower	Higher	(Goto et al., 1993)
Number normal mitochondria in mouse IVF embryos	Higher	Lower	(Belli et al., 2019)
Mouse blastocyst senescence	Lower	Higher	(Meuter et al., 2014)
Mouse pre-compaction amino acid consumption	Lower	Higher	Wale and Gardner (2012)
Mouse pre-compaction pyruvate consumption	Lower	Higher	Wale and Gardner (2012)
Mouse post-compaction glucose consumption	Higher	Lower	Wale and Gardner (2012)
Removal of waste ammonium by mouse blastocysts	Yes	No	(Wale and Gardner, 2013)
Mouse blastocyst global gene expression	Similar to <i>in vivo</i>	Disparate to <i>in vivo</i>	(Rinaudo et al., 2006)
Mouse blastocyst global protein expression	Similar to <i>in vivo</i>	Disparate to <i>in vivo</i>	(Katz-Jaffe et al., 2005)
Bovine blastocyst global DNA methylation	Lower	Higher	(Li et al., 2016)
Human fertilisation rate	No difference	No difference	(Dumoulin et al., 1995, Dumoulin et al., 1999, Kovacic and Vlaisavljevic, 2008, Ciray et al., 2009, Kasterstein et al., 2013)
Human implantation rate	Higher	Lower	(Kasterstein et al., 2013, Ruiz et al., 2020)
Human pregnancy rate	Higher	Lower	(Kasterstein et al., 2013)
Human live birth rate per embryo transferred	Higher	Lower	(Meintjes et al., 2009, Kasterstein et al., 2013, Ruiz et al., 2020)

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