

Figure 1

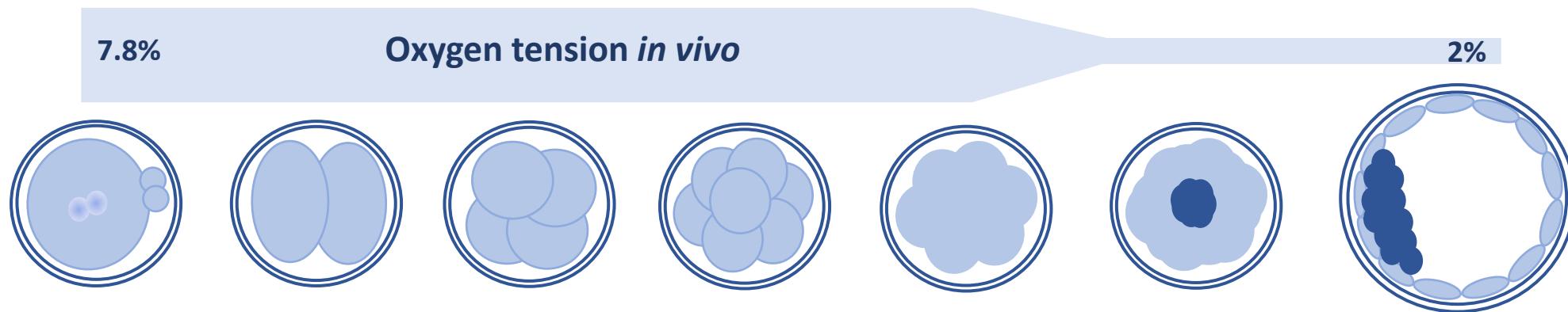


Figure 2

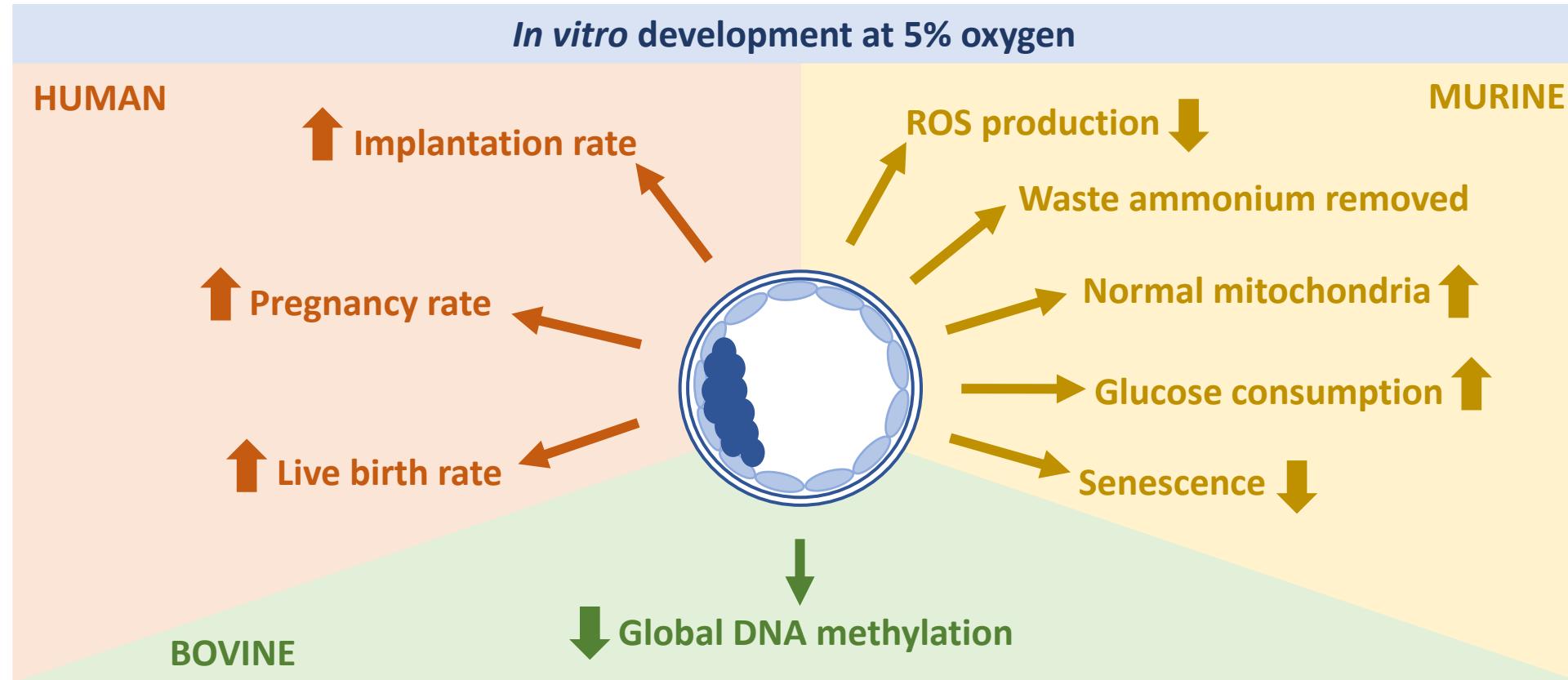
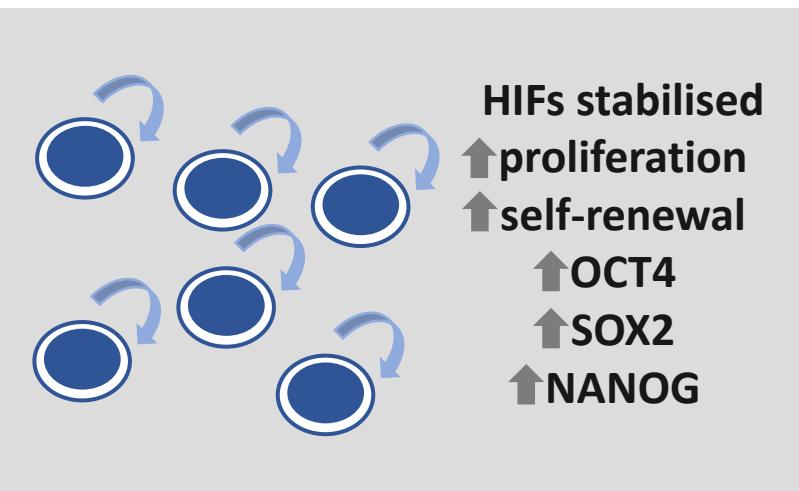


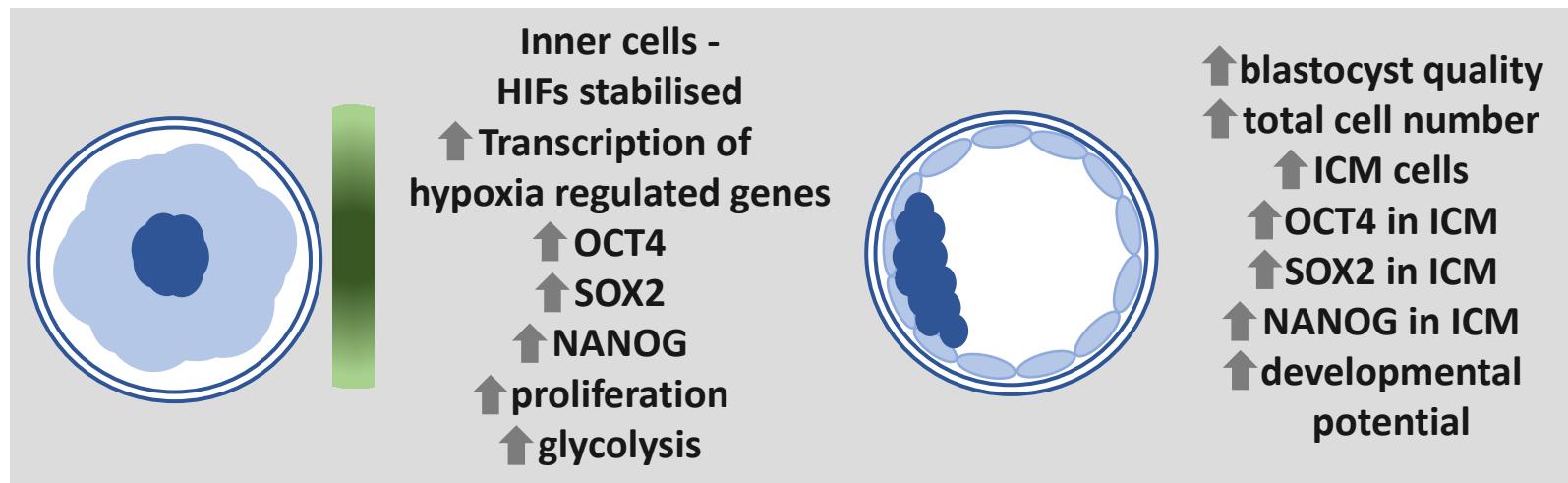
Figure 3

## hESCs

5% Oxygen



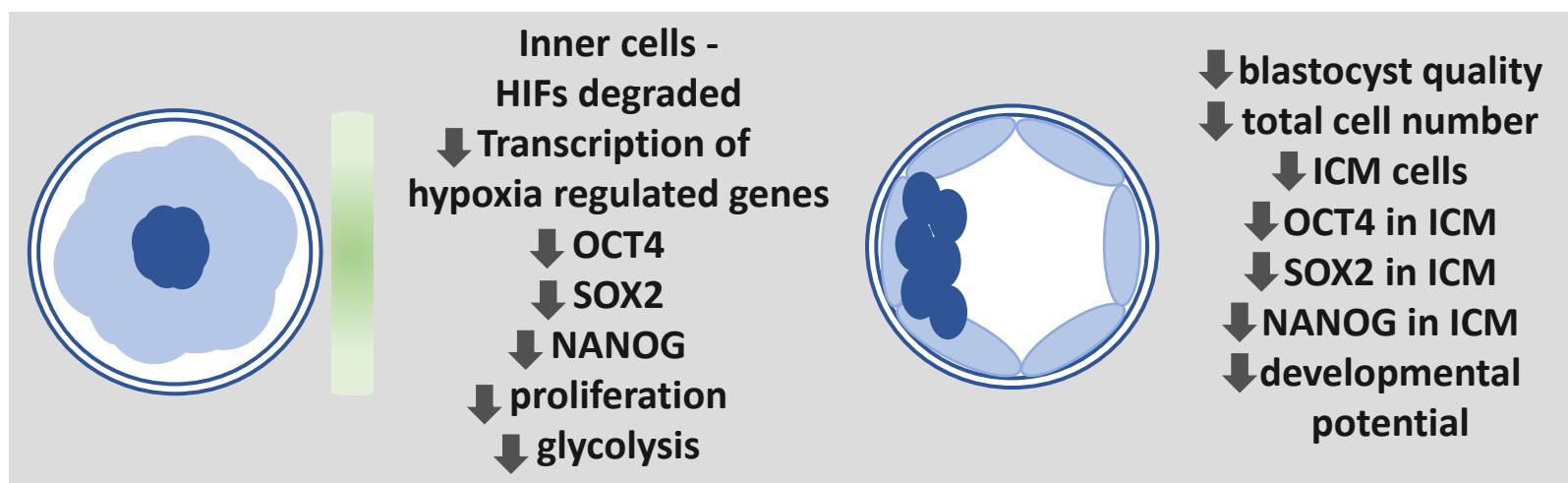
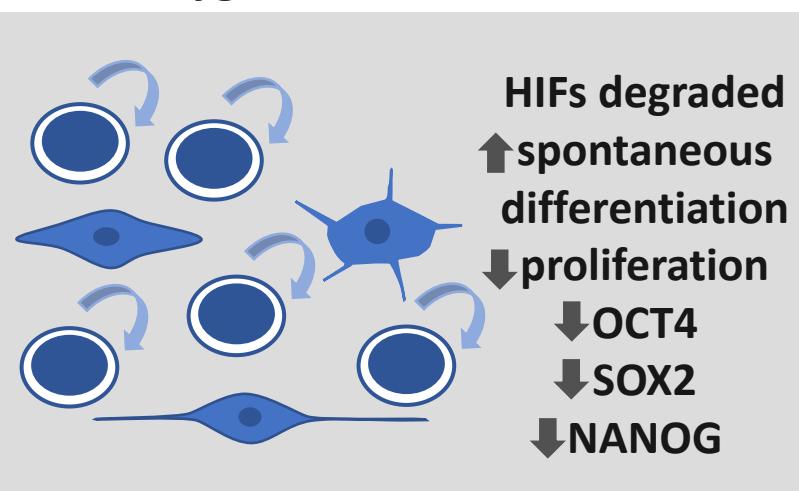
## Morula



## Blastocysts

- ↑ blastocyst quality
- ↑ total cell number
- ↑ ICM cells
- ↑ OCT4 in ICM
- ↑ SOX2 in ICM
- ↑ NANOG in ICM
- ↑ developmental potential

20% Oxygen



- ↓ blastocyst quality
- ↓ total cell number
- ↓ ICM cells
- ↓ OCT4 in ICM
- ↓ SOX2 in ICM
- ↓ NANOG in ICM
- ↓ developmental potential

High Oxygen gradient → Low