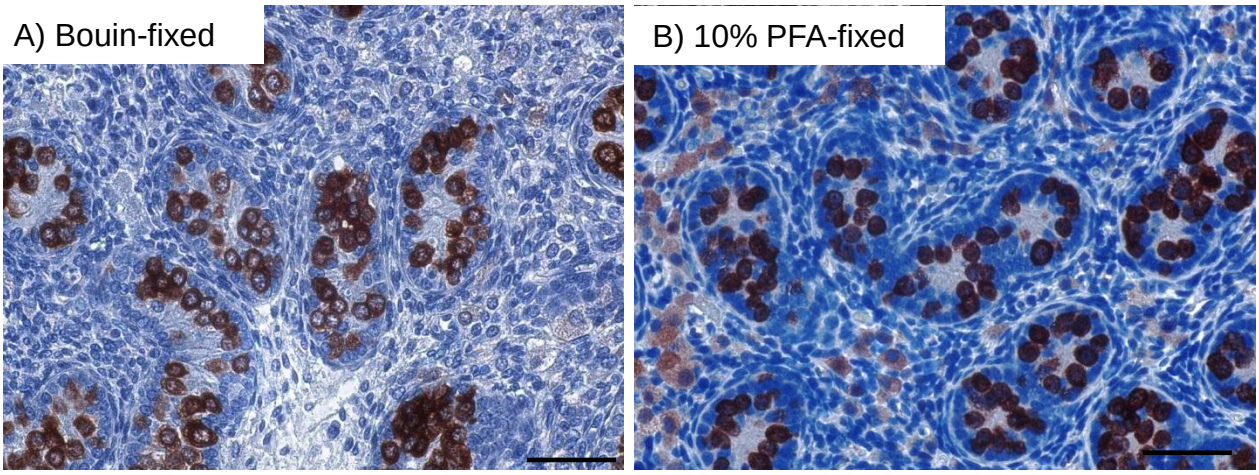
Aeckerle et al. Supplemental Fig.1



Comparison of LIN28-staining on differently fixed tissues shows no significant difference in the staining pattern between Bouin-fixed and 10% PFA-fixed tissue. A) Bouin-fixed testis from a newborn marmoset monkey. B) 10% PFA-fixed testis from a newborn marmoset monkey.

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sample	number of counted tubules	tubules containing LIN28-positive gonocytes/ (pre-) spermatogonia	number of LIN28-positive gonocytes/ (pre-) spermatogonia	% of tubules containing LIN28-positive gonocytes/ (pre-) spermatogonia
A	20	20	128	100
B	20	20	171	100
C	20	20	73	100
D	20 20	20 20	268 284	100 100
E	20	16	82	80
F	20	20	83	100
G	20	20	56	100
H	20 20	15 16	42 37	75 80
I	259	3	4	1.16
J	151	5	7	3.31
K	412	2	2	0.49
L	321 355	9 8	14 12	2.80 2.25

Quantification of LIN28 expression in marmoset monkey testis. A-D) Testis samples from newborn marmoset monkeys. 20 tubules per animal were evaluated. As an internal control a second section was evaluated for one animal (D). 100% ± 0 of tubules in the newborn testis contained LIN28 positive gonocytes. E-H) Testis samples from pubertal marmoset monkeys. 20 tubules per animal were evaluated. As an internal control a second section was evaluated for one animal (H). In average 89.38% ± 5.33 of tubules contained LIN28 positive spermatogonia. I-L) Testis samples from adult marmoset monkeys. All tubules per section were evaluated. As an internal control a second section was evaluated for one animal (L). In average 1.87% ± 0.56 of tubules contained LIN28 positive spermatogonia.

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sample	number of counted tubules	tubules containing LIN28-positive gonocytes/ (pre-) spermatogonia	number of LIN28-positive gonocytes/ (pre-) spermatogonia	% of tubules containing LIN28-positive gonocytes/ (pre-)spermatogonia
A	100	90	nd	90
B	100	82	nd	82
C	100	83	nd	83
D	100	79	nd	79
E	100	98	nd	98
F	100	78	nd	78
G	15	6	nd	40
H	141 179 186	7 22 11	13 39 16	4.96 12.29 5.91
I	83 65 42	0 1 0	0 1 0	0 1.54 0
J	171 194 215	8 2 16	11 2 17	4.68 1.03 7.44
K	86 153 165	0 0 0	0 0 0	0 0 0
L	45 72 60	0 2 2	0 2 2	0 2.78 3.33
M	114 93 140	1 0 0	1 0 0	0.88 0 0
N	63 25 73	0 0 1	0 0 1	0 0 1.37
O	31 46 31	0 1 0	0 1 0	0 2.17 0
P	161 171 169	1 1 0	1 1 0	0.62 0.58 0
Q	64 125 97	0 0 0	0 0 0	0 0 0
R	322 335 351	1 6 3	1 6 4	0.31 1.79 0.85
S	953 963 907	0 0 2	0 0 2	0 0 0.22
T	207 208 213	0 0 0	0 0 0	0 0 0
U	1054 1026 1021	0 0 0	0 0 0	0 0 0
V	1120 864 1087	2 4 0	3 7 0	0.18 0.46 0

LIN28 expression in human testis. A-F) fetal testis samples. 100 tubules per sample were evaluated. In average 85% ± 3.49 of tubules contained LIN28-positive gonocytes. G) Testis samples from a one year old boy. The section contained 15 tubules, from which 6 contained LIN28 positive (pre-) spermatogonia (40%). H-V) adult testis samples. H-Q are samples from patients with testis tumors on the contra-lateral side, R-V are samples from prostate carcinoma patients with no evidence of testicular malfunction. All tubules per section were evaluated. In average 1.19% ± 1.04 of tubules contained LIN28-positive spermatogonia. nd = not determined.