Supplementary Material

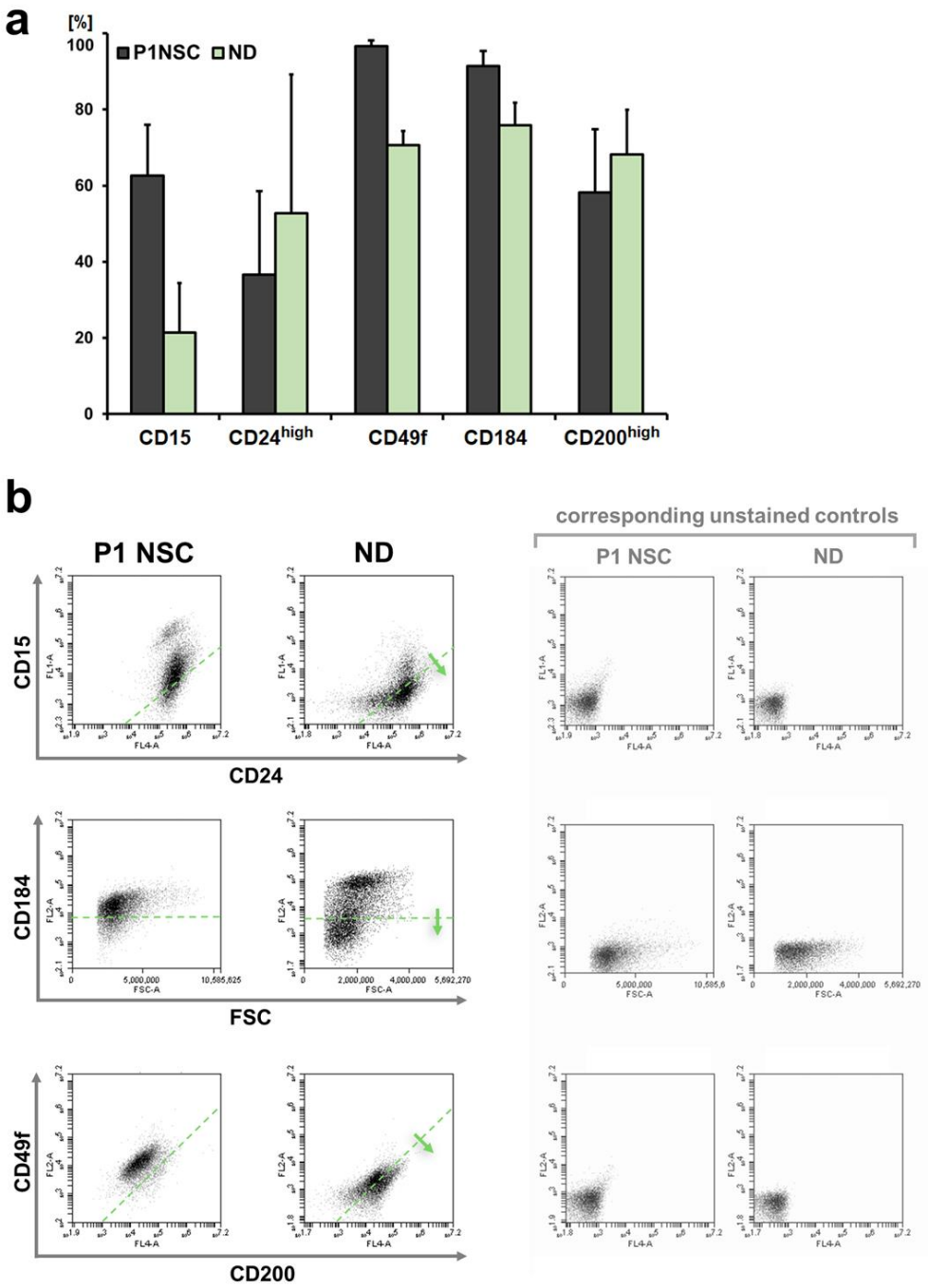
Thomas *et al.*:

Glycan epitope and integrin expression dynamics characterize neural crest epithelial-to-mesenchymal transition (EMT) in human pluripotent stem cell differentiation

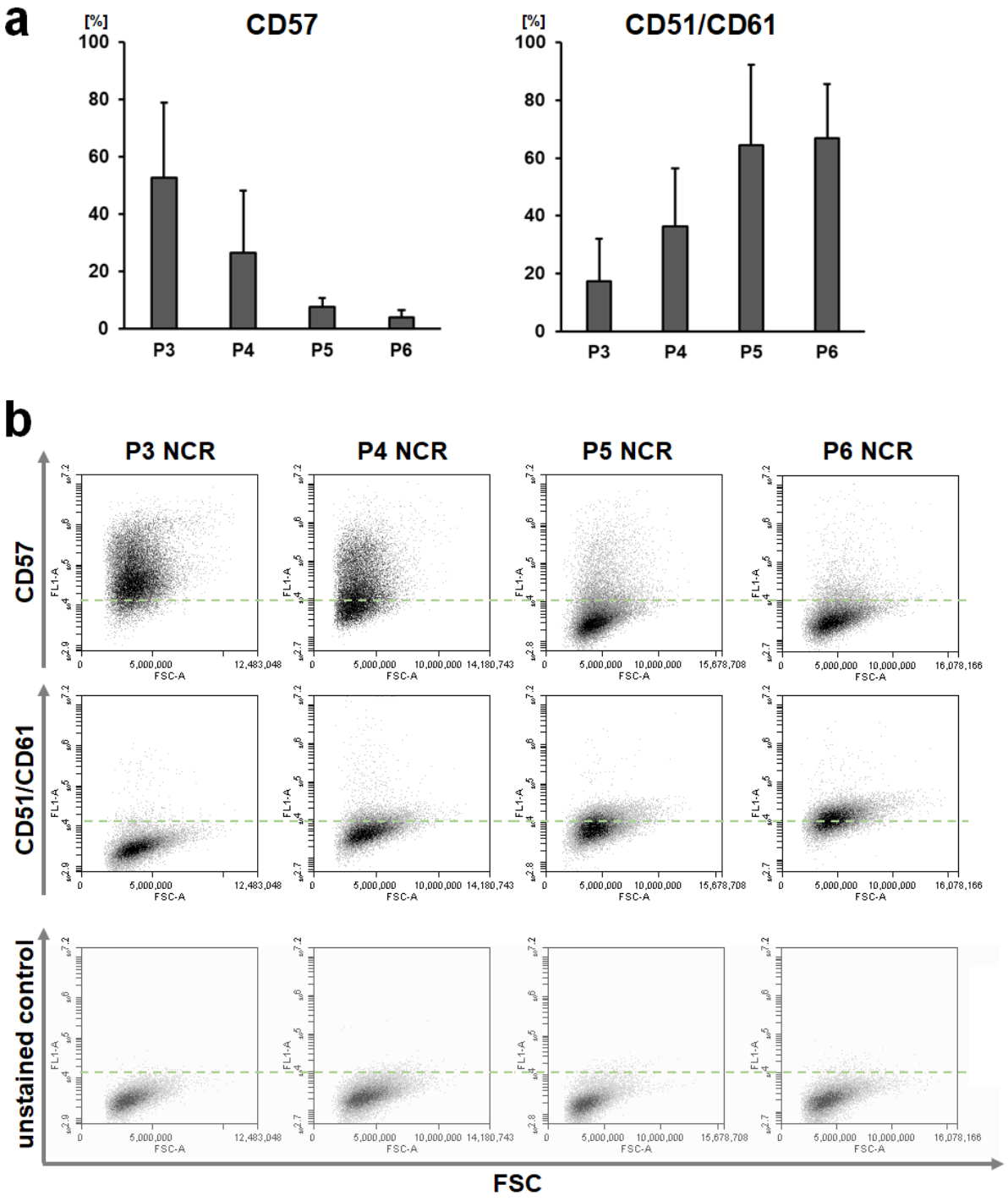
Suppl. Table 1 – Spearman correlation matrix of CD antigens, as shown, across NCR *in vitro* culture.

marker	**CD29^{high}**	**CD146**	**CD51/61**	**CD49e**	**CD44^{high}**	**CD73**	**CD133**	**CD49f**	**CD24**	**CD57**
CD29^{high}	1									
CD146	0.8	1								
CD51/61	0.55	0.57	1							
CD49e	0.53	0.56	0.77	1						
CD44^{high}	0.39	0.29	0.54	0.69	1					
CD73^{high}	0.34	0.23	0.75	0.58	0.72	1				
CD133	-0.1	0.03	-0.17	-0.3	-0.67	-0.51	1			
CD49f	-0.52	-0.56	-0.72	-0.51	-0.13	-0.24	-0.19	1		
CD24	-0.69	-0.76	-0.84	-0.8	-0.55	-0.68	0.34	0.49	1	
CD57	-0.58	-0.57	-0.89	-0.86	-0.72	-0.79	0.43	0.64	0.84	1

Supplementary Figures



Suppl. Fig. 1: (**a**) Surface marker expression für $CD15^{+}$, $CD24^{high}$, $CD49f^{+}$, $CD184^{+}$ and $CD200^{high}$ at P1 neural stem cell (P1 NSC) versus neuronal differentiation (ND) stage are shown (n≥3 independent experimental repeats; error bars indicating standard deviation. (**b**) Bivariate flow cytometric dot plots comparing subpopulation shifts CD15/CD24, CD184, and CD49f/CD200 (representative experimental repeat of the above series; right panels: corresponding unstained controls as a reference point). Dotted lines added to facilitate visualization. Arrows indicate main directionality of subpopulation shifts upon neuronal differentiation: enhanced $CD15^{-}/CD24^{high}$, increased $CD184^{-}$ subset, $CD49f^{-}/CD200^{high}$, confirming previous reports (see Pruszak *et al.*, 2009; Yuan *et al.*, 2011; Turaç *et al.*, 2013).



Suppl. Fig. 2: (**a**) Bar graphs depicting percentage of surface antigen expression for CD57 (left) and CD51/CD61 (right panel) positive fractions over the course of NCR passaging in vitro, P3 to P6, the period exhibiting the most profound phenotypic changes (n≥4 independent experimental repeats). (**b**) Flow cytometric dot plots showing overall decrease of the glycan epitope CD57 (top) and of the integrin CD51/CD61 (mid row) antigens over the course of P3 to P6. Bottom row shows corresponding unstained control samples acquired at the same voltage and shown with identical plot specifications. A representative experiment of the above series is shown.