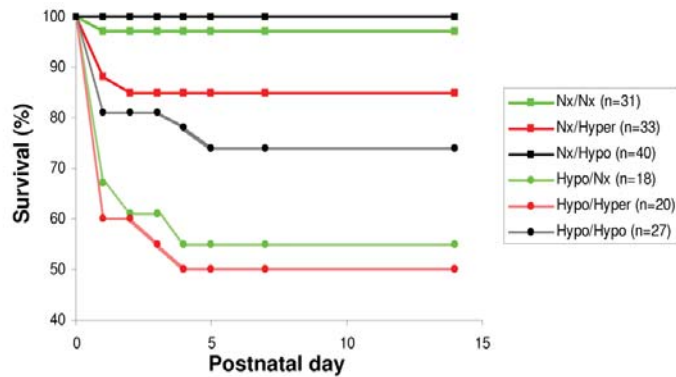
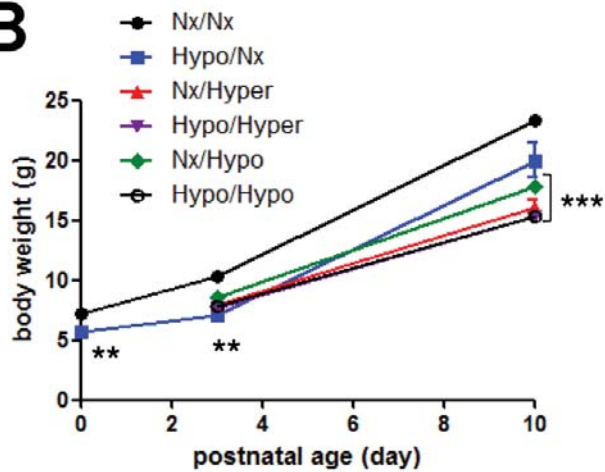
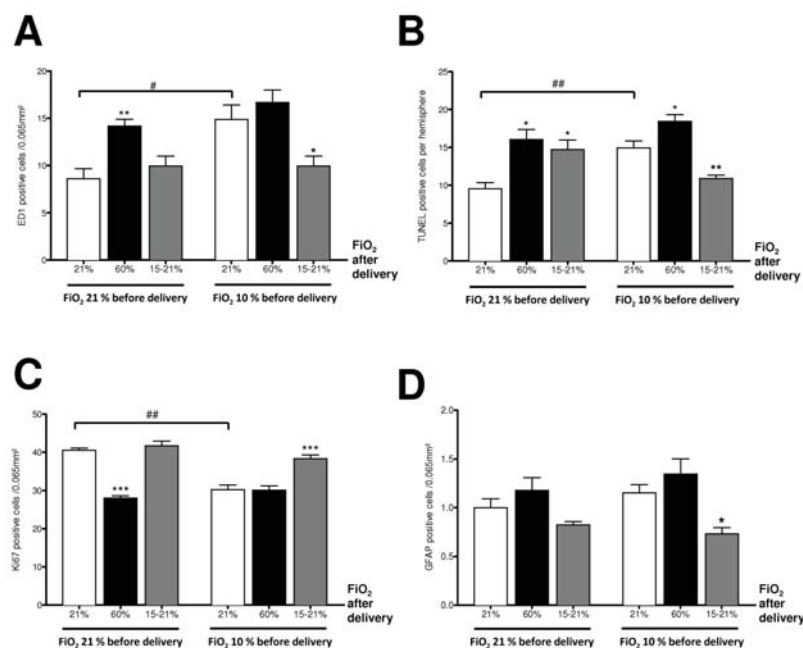


A**B**

Supplementary Figure 1:

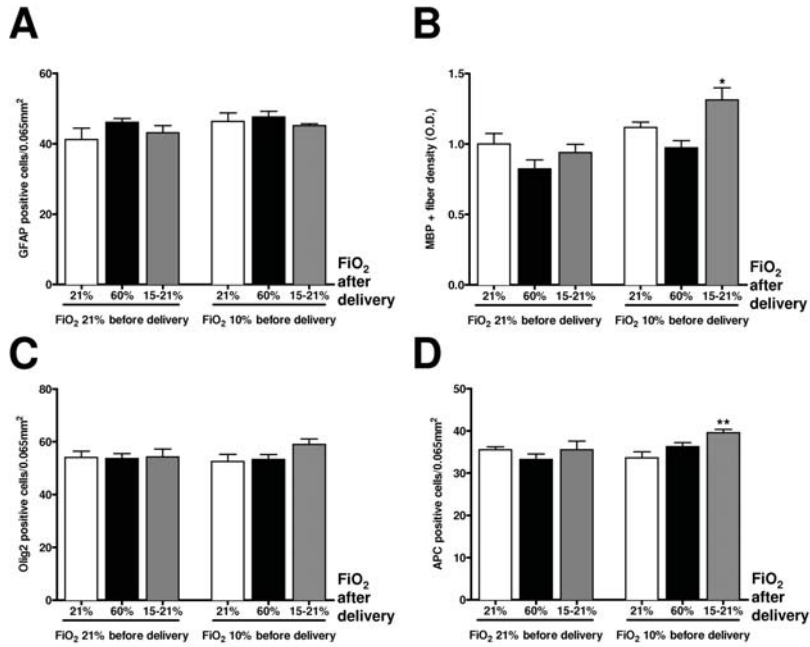
Survival rate (A) and body weight gain (B) in rat pups subjected to various antenatal and postnatal FiO_2 . Number of animals assessed in each experimental group is indicated on the top of each bar in A. ** $p < 0.01$ and *** $p < 0.001$ compared to Nx/Nx controls using either Mann Whitney test or one-way ANOVA with the Newman-Keuls correction.



Supplementary Figure 2:

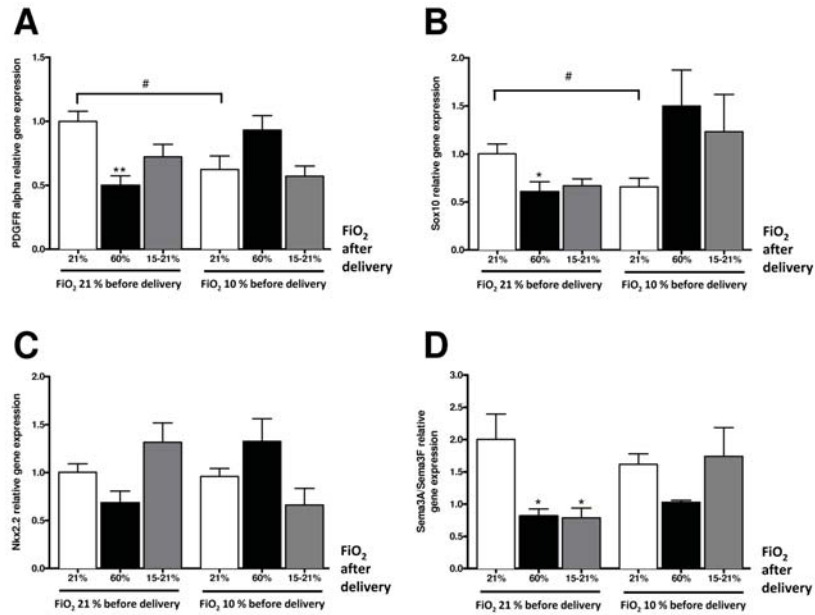
Quantitative analysis of ED1-positive cells (A), TUNEL-positive cells (B), Ki67-positive proliferating cells (C) and GFAP-positive cells (D) density in the cingulate white matter of P10 rat pups subjected to antenatal normoxia (FiO₂ 21%) or hypoxia (FiO₂ 10%) and various postnatal FiO₂: normoxia (white bar), hyperoxia (FiO₂ 60%, black bar) or progressive reoxygenation (FiO₂ 15-21%, gray bar).

*p<0.05, **p<0.01 and ***p<0.001 compared to normoxic controls using one-way ANOVA with the Newman-Keuls correction; #p<0.05 and ## p<0.01 using Mann Whitney test.



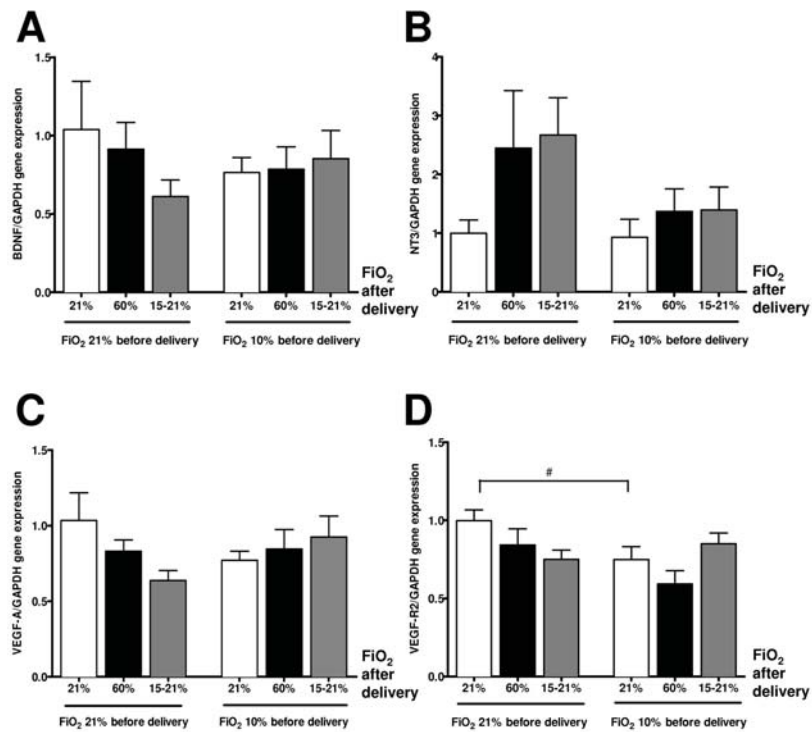
Supplementary Figure 3:

Quantitative analysis of GFAP-immunoreactive cells density (A), MBP-positive fibers (optical density) (B), Olig2-immunoreactive cells density (C) and APC-immunoreactive cells density (D) in the cingulate white matter of P21 rat pups subjected to antenatal normoxia or hypoxia and various postnatal FiO₂: normoxia (white bar), hyperoxia (black bar) or progressive reoxygenation (grey bar). *p<0.05 and **p<0.001 compared to normoxic controls using one-way ANOVA with the Newman-Keuls correction.



Supplementary Figure 4:

Quantitative analysis of gene expression of (A) PDGFRα, (B) Nkx2.2, (C) Sox10 and (D) Semaphorins 3A/3F ratio in P10 rat pups subjected to antenatal normoxia or hypoxia and various postnatal FiO₂. Gene expressions were normalized to the normoxic controls. *p<0.05 and **p<0.01 using one-way ANOVA with the Newman-Keuls correction; #p<0.05 using Mann Whitney t test.



Supplementary Figure 5:

Quantitative analysis of gene expression of (A) BDNF, (B) NT3, (C) VEGF-A and (D) VEGF-R2 in P10 rat pups subjected to antenatal normoxia or hypoxia and various postnatal FiO₂. Gene expressions were normalized to the normoxic controls. No significant difference was noted between groups according to antenatal conditions. VEGF-R2 gene expression was found significantly decreased after antenatal hypoxia (#p<0.05 using Mann Whitney t test).