

# Corrigendum

## Perlecan domain V is neuroprotective and proangiogenic following ischemic stroke in rodents

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Original citation: J Clin Invest. 2011;121(8):3005-3023. doi:10.1172/JCI46358.

Citation for this corrigendum: J Clin Invest. 2012;122(2):777. doi:10.1172/JCI61899.

In the legends for Figures 3, 5, and 9, it was not explicit that the same data were used for multiple figures.

The correct figure legends appear below.

### Figure 3

DV is neuroprotective. (**A** and **B**) Mean ischemic lesion volumes measured from brain sections stained with TTC (PSD 1–3) or H&E (PSD 7 and 15) in WT mice treated with different doses of DV (**A**) or in WT and  $Pln^{-/-}$  mice treated as indicated (**B**) (\*P < 0.05, \*\*P < 0.01, n = 15 per treatment group per PSD). Mean ischemic lesion volumes for WT and  $Pln^{-/-}$  on PSD 1–3 are repeated from Figure 1E, as these volumes were obtained in the same experiments as the volumes obtained with DV treatment of WT and  $Pln^{-/-}$  mice. (**C**) WT or  $Pln^{-/-}$  mouse brain TTC staining at PSD 3, or WT H&E staining on PSD 15, after animals received i.p. PBS or DV injections (1 mg/kg). Yellow asterisks and red circles indicate ischemic lesions. PBS-treated WT and  $Pln^{-/-}$  brain images are repeated here from those shown in Figure 1F, as they were obtained from the same experiments shown in that figure. (**D**) Cresyl violet, cleaved caspase-3, and TUNEL staining, with propidium iodide (PI) nuclear counterstain, in the peri-infarct area in WT mice treated with PBS or with DV. Scale bars: 5  $\mu$ m (cresyl violet) and 10  $\mu$ m (caspase-3 and TUNEL).

#### Figure 5

DV neuroprotection is VEGF and VEGFR mediated. (**A**) Anti-VEGF Western blot analysis of ipsilateral stroke hemispheres as labeled, with GAPDH as internal loading control. (**B**) Densitometry analysis of VEGF Western blot as shown in **A** as normalized to corresponding GAPDH bands (\*\*P < 0.01, n = 15 per treatment group, per PSD). (**C**) Plot of VEGF ELISA ipsilateral stroke brain tissue treated as labeled (\*P < 0.01 as compared with corresponding PBS-treated WT control or as labeled, n = 3 per treatment group per PSD). (**D**) Mean ischemic lesion volumes of stroke WT mice on PSD 1–3 treated as labeled (\*\*P < 0.01, n = 15 per treatment group per PSD). (**E**) Vibrissae-elicited forelimb placement test on WT mice treated as labeled. DV had no effect in animals also treated with PTK787/ZK 222584 (P = NS). Stroke PBS and stroke DV (1 mg/kg) results are repeated from the identically labeled data in Figure 4B, as these experiments were performed in parallel using the same groups for comparison. (**F**) NeuN and VEGFR2 co-immunohistochemistry of PSD 5 peri-infarct brain tissue of mice treated as labeled. White arrows indicate cells that were positive for both NeuN and VEGFR2. Scale bar: 50  $\mu$ m. (**G**) Number of NeuN- and VEGFR2-positive cells per mm² in the peri-infarct regions as labeled (\*\*P < 0.01, P = 10 images per animal, 5 animals per treatment condition).

# Figure 9

DV effects are mediated via the  $\alpha5\beta1$  integrin in vivo. (**A**) Anti- $\alpha5\beta1$  Western blot analysis from PSD 3 mouse brain tissue treated as labeled, with GAPDH as internal control. (**B**)  $\alpha5\beta1$  immunohistochemistry of mouse PSD 3 peri-infarct brain tissue with or without DV treatment. Scale bar: 10  $\mu$ m. (**C**) Quantification of mean ischemic lesion volumes of stroke WT mice on PSD 1–3 as labeled (\*P < 0.05, \*n = 15 per treatment condition per PSD). (**D**) Cresyl violet staining, caspase-3 17- to 20-kDa cleavage product immunostaining, and TUNEL staining with PI of peri-infarct brain regions as labeled. Scale bars: 10  $\mu$ m. (**E**) Vibrissae-elicited forelimb placement test on WT mice treated as labeled (\*n = 15 mice per condition from 3 separate experiments with 5 mice each). WT and WT + DV values are repeated here from Figure 5E (there labeled stroke PBS and stroke DV, 1 mg/kg), as these experiments were all performed in parallel using the same groups for comparison. (**F**) Von Willebrand factor immunohistochemistry (green) on PSD 5 from WT mice treated as labeled. Scale bar: 10  $\mu$ m. Representative WT stroke + PBS and WT stroke + DV images are repeated here from the identically labeled images in Figure 8A, to ease their visual comparison with animals treated with  $\alpha5$  antibody or DV +  $\alpha5$  antibody. (**G**) Peri-infarct blood vessel quantification as labeled (\*P < 0.05, \*P < 0.01 compared with PBS + IgG on the same day, \*P < 0.01 compared per animal, 10 animals per experimental condition). (**H**) Anti-VEGF Western blot analysis of mouse stroke hemispheres with internal GAPDH as control. (**I**) Optical density quantification of VEGF Western blot analysis as shown in **H** (\*P < 0.01, \*P = 0.01, \*P

The authors regret the error.