Is blubber hypoxic?

First measurements of dissolved oxygen in a natural animal model of rapid fat tissue expansion

Laura Oller, Joel Rocha, Kimberley Bennett

**Figure 1.** Scatter plot of partial pressure of oxygen measurements on seals’ blubber depending on depth of measurement. Each individual (ID) is represented by a colour (n=10) and repeated samplings of same animal after weight gain (n=4) are represented by different shapes. Standard error is coloured in grey.

\[ pO_2 = \text{systemic blood saturation} \times \text{Depth fraction} \times \text{blubber fat content (\%)} \]