

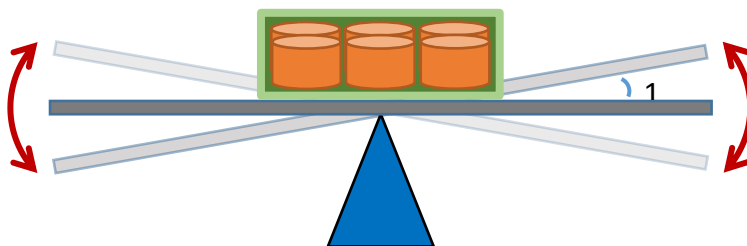
Fluorescence activated cell sorting FACS analysis for retroperitoneal (RP), subcutaneous (SC) and lipoma (LP) ASCs specific stem cells markers including CD44, CD90, CD105, CD45 and major histocompatibility complex II (MHCII) as previously reported from our group (Arnhold et al. 2019): Investigation of stemness and multipotency of equine adipose-derived mesenchymal stem cells (ASCs) from different fat sources in comparison with lipoma. In *Stem cell research & therapy* 10 (1), p. 309.

Calculation of the fluid shear stress (FSS) according to Zhou et al (2010)¹

$$\tau = \frac{3 \cdot \pi \cdot \mu \cdot \theta_{max} \cdot L^2}{4 \cdot h_0^2 \cdot T}$$

τ = FSS (Pa), μ = fluid viscosity (Pa s), θ_{max} = maximum rocking angle (rad), L = culture dish diameter (mm), h_0 = fluid depth (mm), T = rocking period, turns/minute (s)

Fluid shear stress setup



¹ Zhou X, Liu D, You L, Wang L. Quantifying fluid shear stress in a rocking culture dish. *Journal of biomechanics* 2010; 43 (8): 1598–602. The illustration is presented as previously reported (Arnhold et al. 2019): Investigation of stemness and multipotency of equine adipose-derived mesenchymal stem cells (ASCs) from different fat sources in comparison with lipoma. In *Stem cell research & therapy* 10 (1), p. 309.