Mixed plot showing all linear models of ln VO$_2$ (mgO$_2$ h$^{-1}$) against ln mass (g AFDT) of the two different pCO$_2$ treatments (control and elevated) in single temperatures from all three species: (a) *Tonicella lineata*, low temperature (9°C); (b) *Tonicella lineata*, medium temperature (13°C); (c) *Tonicella lineata*, high temperature (17°C); (d) *Mopalia muscosa*, low temperature; (e) *Mopalia muscosa*, medium temperature; (f) *Mopalia muscosa*, high temperature; (g) *Katharina tunicata*, low temperature (this plot is identical to text Figure 2a); (h) *Katharina tunicata*, medium temperature; (i) *Katharina tunicata*, high temperature. All regression lines are repeated in the figure legends; these data are the same as those presented in Supplementary Table 1.
9°C, Control
\[ p_{\text{CO}_2} \]
\[ y = 0.86x - 1.29, R^2 = 0.91 \]

9°C, Elevated
\[ p_{\text{CO}_2} \]
\[ y = 0.87x - 1.28, R^2 = 0.95 \]

(Tonicella lineata - Low Temperature)

13°C, Control
\[ p_{\text{CO}_2} \]
\[ y = 0.80x - 1.22, R^2 = 0.98 \]

13°C, Elevated
\[ p_{\text{CO}_2} \]
\[ y = 0.85x - 1.13, R^2 = 0.91 \]

(Tonicella lineata - Medium Temperature)

17°C, Control
\[ p_{\text{CO}_2} \]
\[ y = 0.77x - 1.10, R^2 = 0.96 \]

17°C, Elevated
\[ p_{\text{CO}_2} \]
\[ y = 0.84x - 1.03, R^2 = 0.98 \]

(Tonicella lineata - High Temperature)
$9^\circ C$, Control
\[ y = 0.94x - 1.18, R^2 = 0.98 \]

$9^\circ C$, Elevated
\[ y = 0.86x - 1.52, R^2 = 0.97 \]

$13^\circ C$, Control
\[ y = 0.85x - 1.28, R^2 = 0.99 \]

$13^\circ C$, Elevated
\[ y = 0.87x - 1.06, R^2 = 0.97 \]

$17^\circ C$, Control
\[ y = 0.78x - 1.00, R^2 = 0.98 \]

$17^\circ C$, Elevated
\[ y = 0.83x - 0.95, R^2 = 0.98 \]
Katharina tunicata - Low Temperature

\[ y = 0.93x - 1.44, \quad R^2 = 0.99 \]

Katharina tunicata - Medium Temperature

\[ y = 0.89x - 1.21, \quad R^2 = 0.97 \]

Katharina tunicata - High Temperature

\[ y = 0.91x - 0.95, \quad R^2 = 0.99 \]