

Supplementary Material

Toffolo et al model (32) for the FSIGT:

$$HE(t) = \frac{ISR(t) - IDR(t)}{ISR(t)} \quad (\text{Eq. 1})$$

$$HE_b = \frac{ISR_b - IDR_b}{ISR_b} \quad (\text{Eq. 2})$$

$$HE_{tot} = \frac{\int_0^T ISR(t) dt - \int_0^T IDR(t) dt}{\int_0^T ISR(t) dt} \quad (\text{Eq. 3})$$

where the subscript b is for basal values of the referred variable, and T is the duration of the experiment.

Campioni et al model (34) for the oral test:

$$HE(t) = \begin{cases} HE_{i-1} + \frac{HE_i - HE_{i-1}}{t_i - t_{i-1}} \cdot (t - t_{i-1}) & t_{i-1} \leq t \leq t_i; \quad i = 1, 2, \dots, N \\ HE_0 = HE_b & \end{cases} \quad (\text{Eq. 4})$$

where HE_i are the breaking points to be estimated at the corresponding time t_i ; HE_b and HE_{tot} are still derived from Eq. 2-3.