### SUPPLE TABLE. 1

| Parameters                                                | muMT          |
|-----------------------------------------------------------|---------------|
|                                                           | Ctrl          | STZ 8W        |
| BG (mg/dl)                                                | 486.4 ± 14.34 | 514.0 ± 11.23 |
| Or BG (mM)                                                | 27.0 ± 2.10   | 28.58 ± 1.37  |
| BW (g)                                                    | 19.4 ± 3.15   | 16.2 ± 2.38   |
| HbA1c (%)                                                 | 9.1 ± 0.23    | 9.9 ± 0.28    |
| Heart rate (bpm)                                         | 422.0 ± 19.42 | 420.0 ± 18.23 |
| LV mass (g/kg)                                           | 142.36 ± 20.11| 157.93 ± 21.35|
| Heart weight/tibia length (mg/mm)                        | 0.05 ± 0.01   | 0.07 ± 0.02   |
| EF%                                                       | 35.46 ± 4.13  | 24.41 ± 4.52  |
| FS%                                                       | 19.07 ± 1.36  | 12.88 ± 3.14  |
| E velocity (m/s)                                         | 0.92 ± 0.18   | 0.98 ± 0.21   |
| A velocity (m/s)                                         | 0.48 ± 0.17   | 0.42 ± 0.13   |
| E/A ratio                                                 | 0.92 ± 0.11   | 0.90 ± 0.10   |
| IVRT (ms)                                                 | 24.31 ± 3.12  | 26.24 ± 2.14  |
| LV diastolic posterior wall thickness (mm)                | 1.18 ± 0.32   | 1.22 ± 0.23   |
| LV systolic posterior wall thickness (mm)                 | 1.38 ± 0.24   | 1.44 ± 0.54   |
| Intraventricular diastolic septum diameter (mm)          | 0.95 ± 0.29   | 0.99 ± 0.23   |
| Parameter                                      | Mean ± SD A | Mean ± SD B |
|------------------------------------------------|-------------|-------------|
| Intraventricular systolic septum diameter (mm) | 1.30±0.42   | 1.60±0.42   |
| LV diastolic internal diameter (mm)            | 4.24 ± 0.49 | 4.52 ± 0.67 |
| LV internal systolic diameter (mm)             | 3.10 ± 0.93 | 3.25 ± 0.52 |
| LV diastolic vol (uL)                          | 70.39 ± 8.34| 76.63 ± 9.13|
| LV systolic vol (uL)                           | 68.23 ± 10.35| 75.28 ± 9.36|
Supple Figure 1
