TROPICAL LIFE SCIENCES RESEARCH

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Blood Glucose Level, Langerhans Pancreas and Lipid Profile of Diabetic Rats After Administration of Red Betel, Ginger and Cinnamon Combination Extract

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Reason: Missing Tables 1, 2, 3, 4 and Figure 1 in the text. Tables 1 and 2 have been inserted on page 46, Figure 1 has been inserted on page 47, Tables 3 and 4 have been inserted on page 48.

Table 1: Effect of 14 days feeding with red betel combination extract on rat blood glucose level.

Groups	Before STZ (Day 0)	After STZ (Day 2)	Day 16
Normal	102.00 ± 2.30[a]	107.00 ± 2.00[a]	96.00 ± 4.40[a]
Diabetic + Aquadest	99.30 ± 7.51[a]	335.00 ± 53.84[b]	410.30 ± 62.13[b]
Diabetic + Red betel combination extract (9 mL/kg bw)	95.50 ± 3.70[a]	297.25 ± 29.28[b]	132.50 ± 85.74[a]
Diabetic + Red betel combination extract (13.5 mL/kg bw)	96.30 ± 7.9[a]	315.00 ± 14.29[b]	256.33 ± 48.48[b]

Note: in the same column with obviously different superscripts ($P < 0.05$); $n = 4$

Table 2: Effect of 14 days feeding with red betel combination extract on rat Langerhans Islet and *β*-cells.

Groups	Langerhans islets	β-cells
Normal	23.00 ± 8.00[a]	159.00 ± 14.00[a]
Diabetic + Aquadest	7.50 ± 2.00[c]	91,50 ± 9.00[c]
Diabetic + Red betel combination extract (9 mL/kg bw)	15.00 ± 1.41[a]	137.00 ± 2.83[b]
Diabetic + Red betel combination extract (13.5 mL/kg bw)	10.00 ± 0.01[b]	102,00 ± 8.49[c]

Note: in the same column with obviously different superscripts ($P < 0.05$); $n = 4$

Table 3: Effect of 14 days feeding with red betel combination extract on rat blood lipid profile.

Groups	Total cholesterol (mg/dL)	HDL (mg/dL)	Triglyceride (mg/dL)
Normal	68.70 ± 12.70[a]	65.30 ± 7.60[a]	56.70 ± 13.70[a]
Diabetic + Aquadest	59.00 ± 5.00[c]	42.30 ± 4.20[b]	125.00 ± 34.60[b]
Diabetic + Red betel combination extract (9 mL/kg bw)	54.30 ± 8.00[a]	55.30 ± 5.10[a]	59.00 ± 4.10[a]
Diabetic + Red betel combination extract (13.5 mL/kg bw)	55.30 ± 5.1[a]	56.30 ± 5.70[a]	145.0 ± 7.00[a]

Note: in the same column with obviously different superscripts ($P < 0.05$); $n = 4$

Table 4: Effect of 14 days feeding with red betel combination extract on rat body weight.

Groups	Total cholesterol (mg/dL)	HDL (mg/dL)	Triglyceride (mg/dL)
Normal	147.37 ± 4.05[a]	162.87 ± 3.21[a]	169.67 ± 6.94[a]
Diabetic + Aquadest	156.67 ± 22.53[a]	147.10 ± 24.60[b]	129.27 ± 21.63[b]
Diabetic + Red betel combination extract (9 mL/kg bw)	149.60 ± 16.89[a]	150.27 ± 4.67[b]	139.47 ± 10.75[b]
Diabetic + Red betel combination extract (13.5 mL/kg bw)	151.80 ± 10.68[a]	152.27 ± 5.50[b]	142.63 ± 3.56[b]

Note: in the same column with obviously different superscripts ($P < 0.05$); $n = 4$

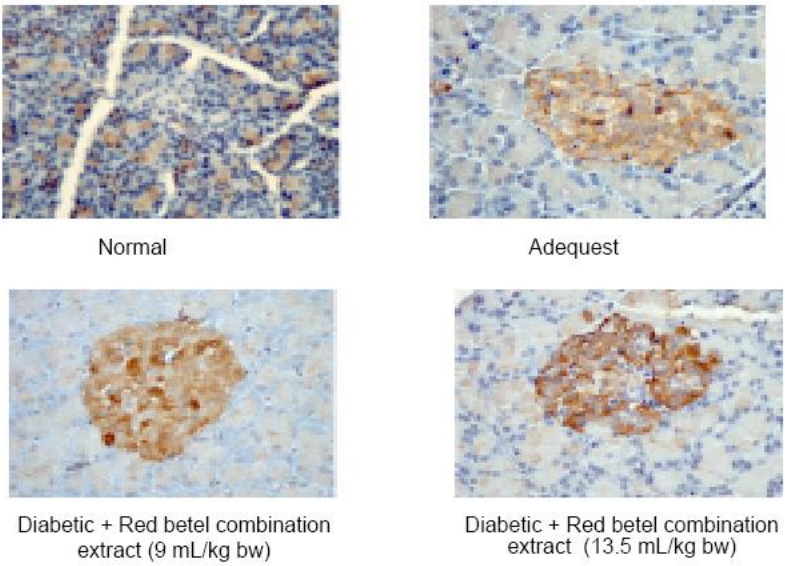

Figure 1: Insulin immunostaining of β-cells (brown) in the islet of Langerhans.The weighing bar measures 50 μm.