Figures legend

- 2 **Supplemental Figure 1** Fasting plasma TG (A), TC (B) and representative hematoxylin and eosin
- 3 staining of pancreas of normal control (white bars), type 2 diabetes group (black bars), metformin
- 4 group (gray bars), 0.5g/kg APF group (spot bars) and 1g/kg APF group (grid bars) after treatment
- 5 with APF 12 weeks. Values are means \pm SEMs, n=8-10 per group. *P<0.05, **P<0.01 versus
- 6 type 2 diabetes group.

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- 8 Supplemental Figure 2 Representative hematoxylin and eosin staining of livers from each group
- 9 after treatment with APF 12 weeks.

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- 11 **Supplemental Figure 3** Representative hematoxylin and eosin staining of epididymal fat from
- each group after treatment with APF 12 weeks.

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- Supplemental Figure 4 Fasting plasma TG, NEFA (A), TC, LDL-C (B) and research protocol (C)
- of ob/ob group (black bars) and APF group (grid bars) after treatment with APF 13 weeks. Values
- are means \pm SEMs, n=8-16 per group. *P<0.05, **P<0.01 versus ob/ob group.

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- 18 Supplemental Figure 5 Representative hematoxylin, eosin staining or Oil red O staining of
- pancreas and livers from each group after treatment with APF 16 weeks or APF+lepin 3 weeks.

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- 21 Supplemental Figure 6 Representative hematoxylin and eosin staining of epididymal fat and
- subcutanoues fat after treatment with APF 16 weeks or APF+lepin 3 weeks.