Author (reference) Country Year Sample size Main findings Alkhateeb (78) Jordan 650 Number of subjects carrying variants of 2013 ADIPOQ gene was significantly higher in

Table 5 Genetic variations in Arab patients with type 2 diabetes mellitus (T2DM)

				All subjects were jordanians	
Mtiraoui (73)	Tunisia	2012	1665	Significantly higher number of the diabetic patients carried 6 of 13 variants of ADIPOQ gene. All subjects were unrelated Tunisians	T2DM: 917 Controls: 748
Zadjali (77)	Oman	2013	328	rs266729 variant in ADIPOQ gene (identified in Tunisian and Jordanian diabetics as well) was associated with body weight (P = 0.001), waist circumference (P = 0.037), BMI (P = 0.015)	All subjects from one extended Omani family

diabetic group.

All cubiocts were lordanians

Five variants (rs792837 in COL8A1, rs2237892

and rs4430796 in HNFI) were associated with

and rs2237895 in KCNQ1, rs729287 in ALX4

Notes

T2DM: 420

Controls: 230

Controls: 606

T2DM: 995

Controls: 1076

				and percentage of total body fat (P = 0.003) in Omani subjects	
Wakil (81)	Saudi Arabia	2006	1173	Frequency of P allele of PPAR-γ gene was 0.974 and 0.968 in T2DM patients and controls respectively	Underpowered due to high incidence in both groups
Nemr (89)	Lebanon	2012	1422	Average of minor allelic frequency of 2 variants of CDKAL1 gene was significantly higher in	T2DM: 630 Controls: 792

				respectively	both groups
Nemr (89)	Lebanon	2012	1422	Average of minor allelic frequency of 2 variants of CDKAL1 gene was significantly higher in Lebanese type-2 diabetic patients (P < 0.001). All subjects were unrelated Lebanese patients	T2DM: 630 Controls: 792
Nemr (92)	Lebanon	2012	1150	Two variants of IGF2BP2 gene (rs4402960 and	T2DM: 544

T2DM

				All subjects were unrelated Lebanese patients
Nemr (92)	Lebanon	2012	1150	Two variants of IGF2BP2 gene (rs4402960 and rs1470579) were significantly associated with T2DM in Lebanese patients

Almawi (93)

Lebanon

2013