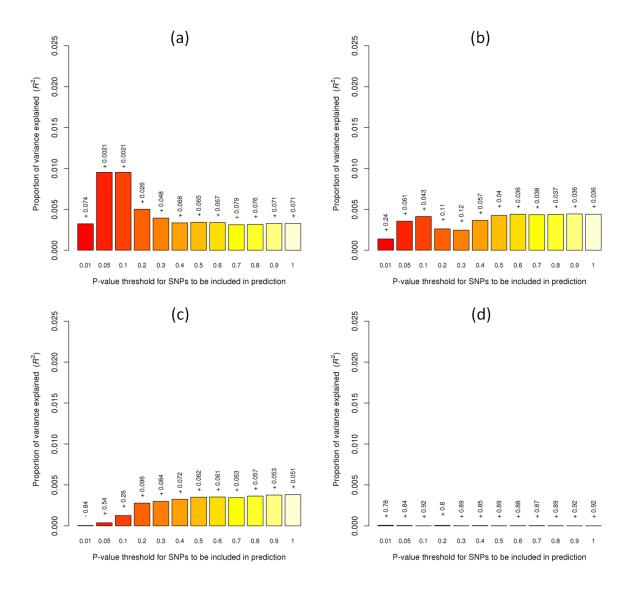
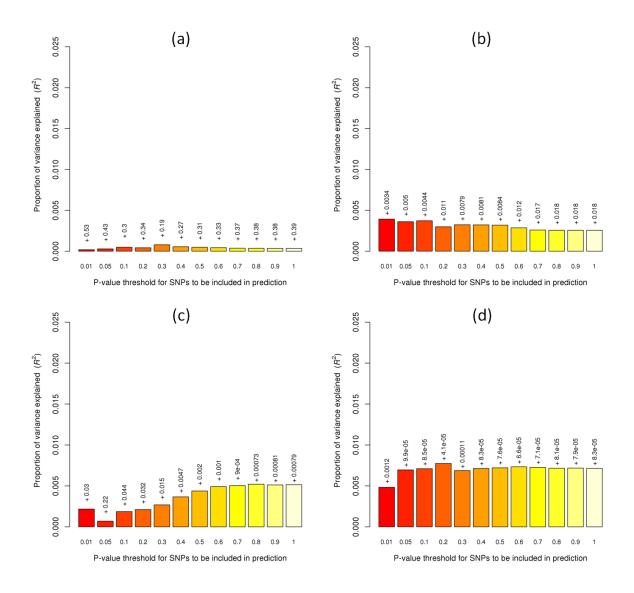


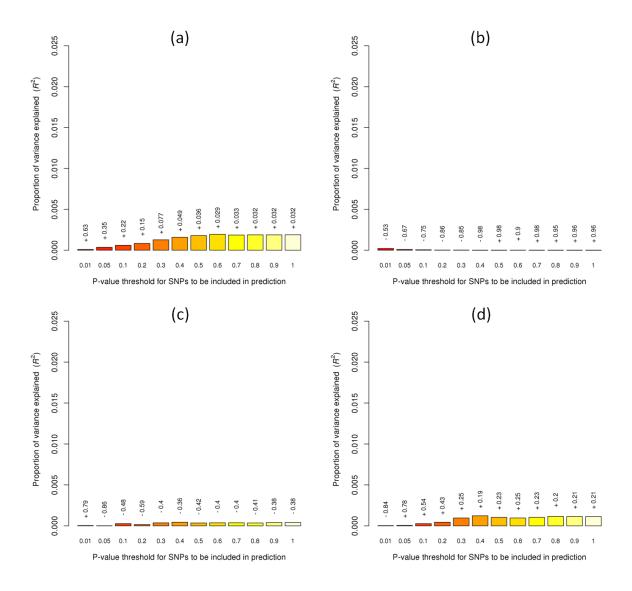
Supplementary Fig 1 (S1): Allele-specific score prediction for endometriosis, using Stage A endometriosis cases in the OX case-control set as the target population and the QIMR-HCS case-control set as the discovery population. Results for the QIMR-HCS rAFS Stage I, II, III and IV endometriosis as the discovery datasets are shown in (a), (b), (c) and (d), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



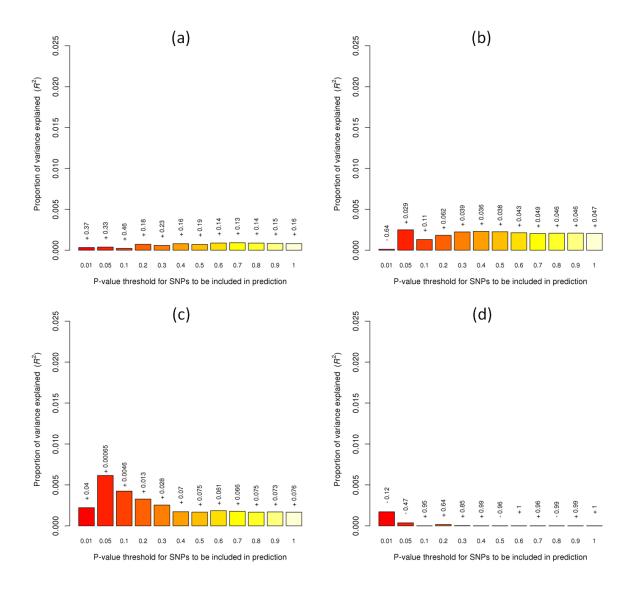
Supplementary Fig 2 (S2): Allele-specific score prediction for endometriosis, using Stage A+ endometriosis cases in the OX case-control set as the target population and the QIMR-HCS case-control set as the discovery population. Results for the QIMR-HCS rAFS Stage I, II, III and IV endometriosis as the discovery datasets are shown in (a), (b), (c) and (d), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



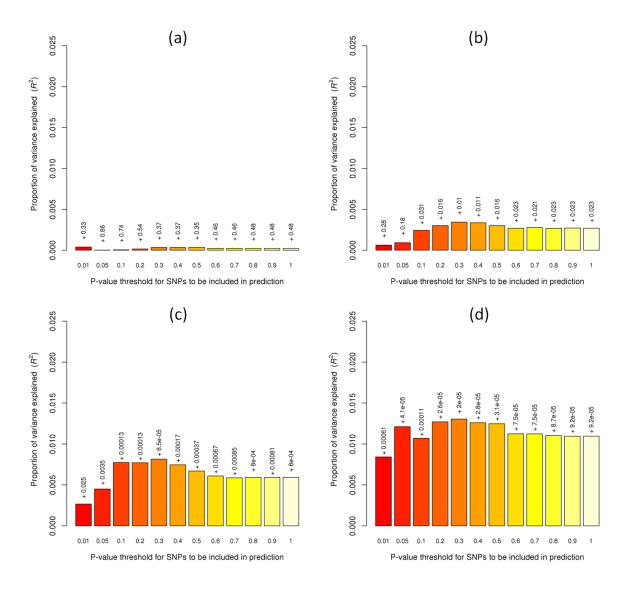
Supplementary Fig 3 (S3): Allele-specific score prediction for endometriosis, using Stage B endometriosis cases in the OX case-control set as the target population and the QIMR-HCS case-control set as the discovery population. Results for the QIMR-HCS rAFS Stage I, II, III and IV endometriosis as the discovery datasets are shown in (a), (b), (c) and (d), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



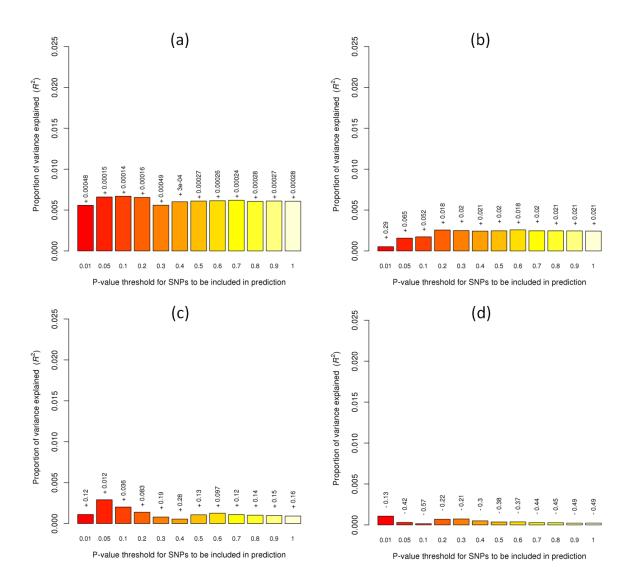
Supplementary Fig 4 (S4): Allele-specific score prediction for endometriosis, using Stage A endometriosis cases in the OX case-control set as the discovery population and the QIMR-HCS case-control set as the target population. Results for the QIMR-HCS rAFS Stage I, II, III and IV endometriosis as the target datasets are shown in (a), (b), (c) and (d), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



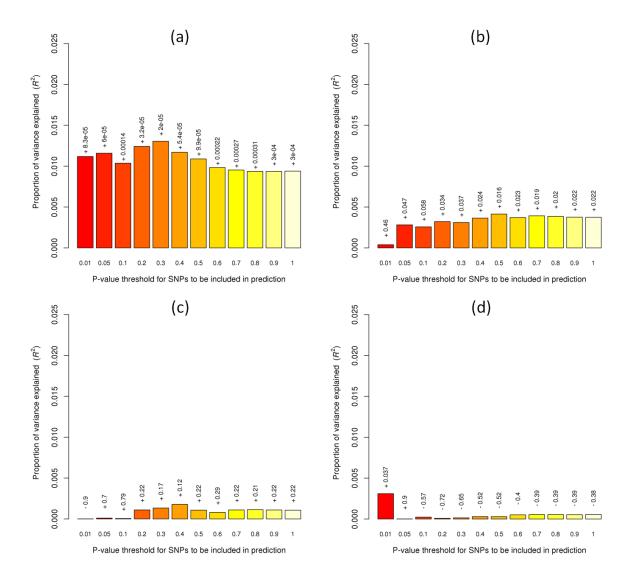
Supplementary Fig 5 (S5): Allele-specific score prediction for endometriosis, using Stage A+ endometriosis cases in the OX case-control set as the discovery population and the QIMR-HCS case-control set as the target population. Results for the QIMR-HCS rAFS Stage I, II, III and IV endometriosis as the target datasets are shown in (a), (b), (c) and (d), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



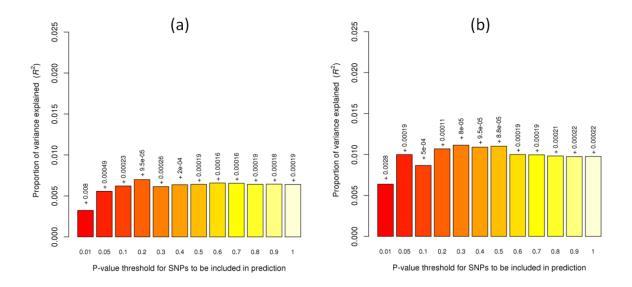
Supplementary Fig 6 (S6): Allele-specific score prediction for endometriosis, using Stage B endometriosis cases in the OX case-control set as the discovery population and the QIMR-HCS case-control set as the target population. Results for the QIMR-HCS rAFS Stage I, II, III and IV endometriosis as the target datasets are shown in (a), (b), (c) and (d), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



Supplementary Fig 7 (S7): Allele-specific score prediction for endometriosis, using Stage IV endometriosis cases in the QIMR-HCS case-control set as the discovery population and Stage B in the QIMR case-control set as the target population. Results are shown for (a) genic SNPs (within 20kb from the transcript start and stop position), (b) SNPs in gene desert (excluding genic SNPs), (c) non-synonymous SNPs (based on snp138 functional annotation) and (d) rare variants. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



Supplementary Fig 8 (S8): Allele-specific score prediction for endometriosis, using Stage B endometriosis cases in the OX case-control set as the discovery population and Stage IV in the QIMR-HCS case-control set as the target population. Results are shown for (a) genic SNPs (within 20kb from the transcript start and stop position), (b) SNPs in gene desert (excluding genic SNPs), (c) non-synonymous SNPs (based on snp138 functional annotation) and (d) rare variants. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).



Supplementary Fig 9 (S9): Allele-specific score prediction for endometriosis after excluding SNPs within the 8 endometriosis-associated regions. Results for Stage IV endometriosis cases in the QIMR-HCS case-control set as the discovery population and Stage B in the QIMR case-control set as the target population, and Stage B endometriosis cases in the OX case-control set as the discovery population and Stage IV in the QIMR-HCS case-control set as the target population are shown in (a) and (b), respectively. The proportion of variance (represented by Nagelkerke's pseudo R^2) explained in the target dataset on the basis of allele-specific scores derived from the discovery dataset for the 12 significance thresholds is plotted in y-axis. The number above each bar is the p-value for the target dataset prediction analysis (R^2 significance).