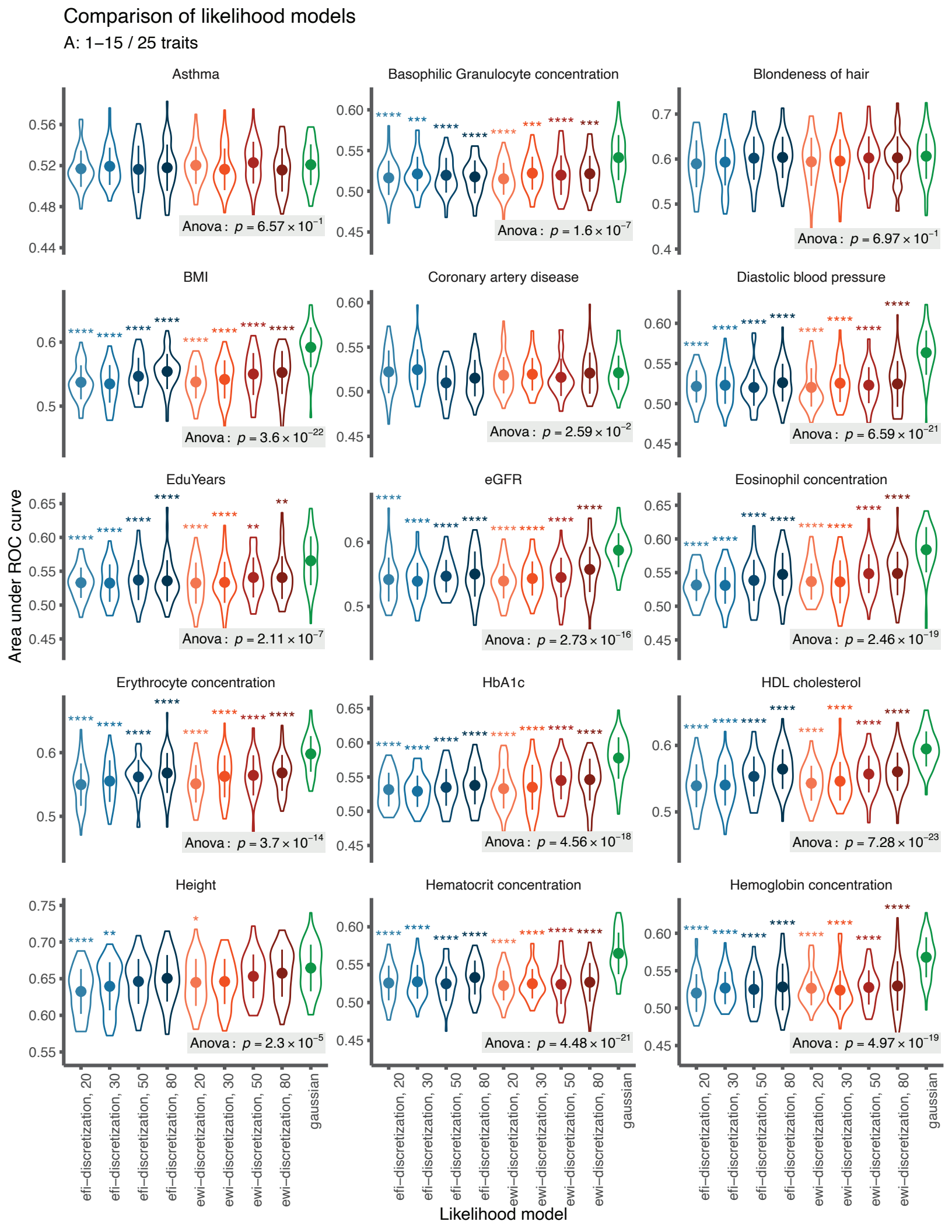
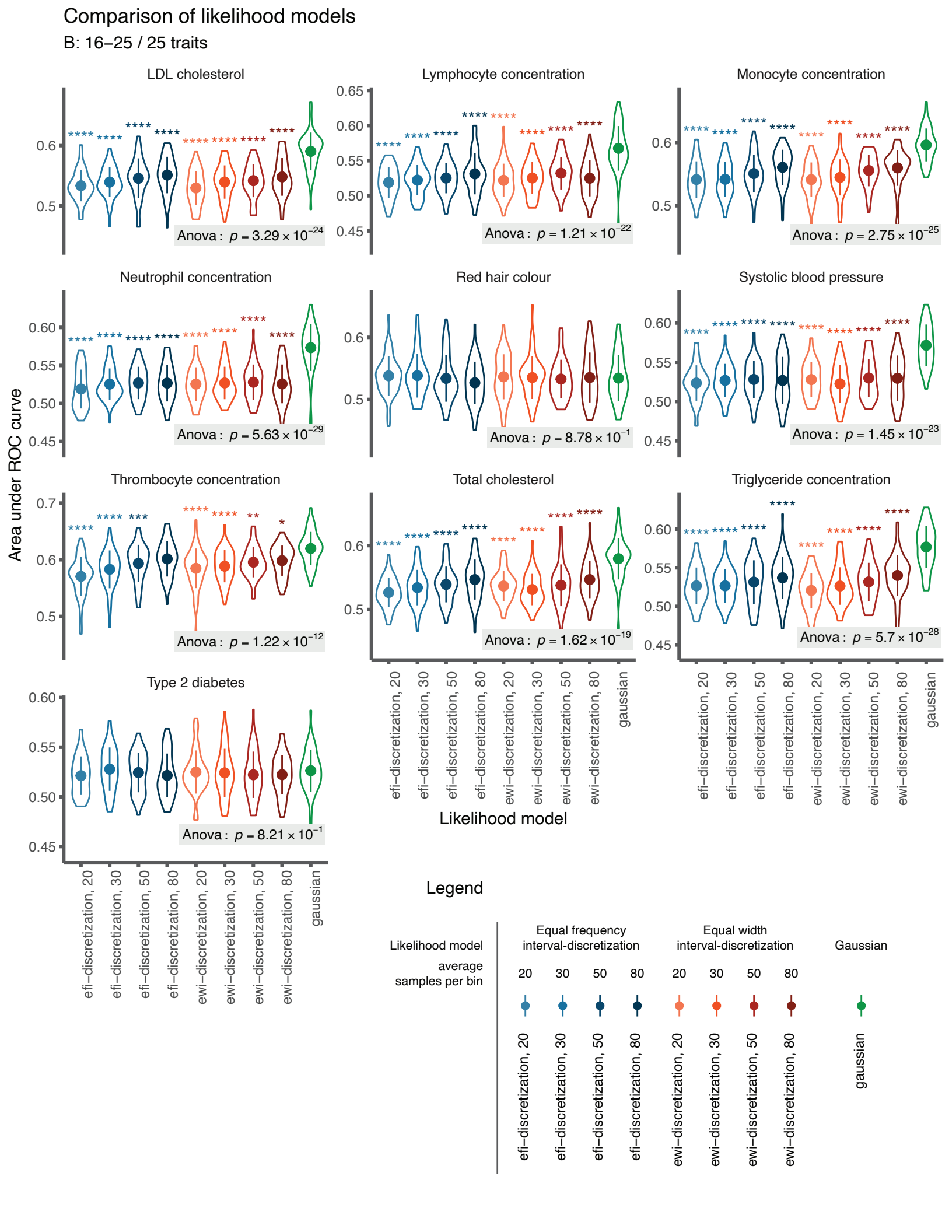

Comparison of likelihood models
A: 1–15 / 25 traits
Asthma
Anova : $p = 6.57 \times 10^{-1}$
Basophilic Granulocyte concentration
Anova : $p = 1.6 \times 10^{-7}$
Blondeness of hair
Anova : $p = 6.97 \times 10^{-1}$
BMI
Anova : $p = 3.6 \times 10^{-22}$
Coronary artery disease
Anova : $p = 2.59 \times 10^{-2}$
Diastolic blood pressure
Anova : $p = 6.59 \times 10^{-21}$
EduYears
Anova : $p = 2.11 \times 10^{-7}$
eGFR
Anova : $p = 2.73 \times 10^{-16}$
Eosinophil concentration
Anova : $p = 2.46 \times 10^{-19}$
Erythrocyte concentration
Anova : $p = 3.7 \times 10^{-14}$
HbA1c
Anova : $p = 4.56 \times 10^{-18}$
HDL cholesterol
Anova : $p = 7.28 \times 10^{-23}$
Height
Anova : $p = 2.3 \times 10^{-5}$
Hematocrit concentration
Anova : $p = 4.48 \times 10^{-21}$
Hemoglobin concentration
Anova : $p = 4.97 \times 10^{-19}$
Area under ROC curve
efi–discretization, 20
efi–discretization, 30
efi–discretization, 50
efi–discretization, 80
ewi–discretization, 20
ewi–discretization, 30
ewi–discretization, 50
ewi–discretization, 80
gaussian
Likelihood model


Comparison of likelihood models
B: 16–25 / 25 traits
LDL cholesterol
Lymphocyte concentration
Monocyte concentration
Neutrophil concentration
Red hair colour
Systolic blood pressure
Thrombocyte concentration
Total cholesterol
Triglyceride concentration
Type 2 diabetes
Anova : p = 3.29 × 10−24
Anova : p = 1.21 × 10−22
Anova : p = 2.75 × 10−25
Anova : p = 5.63 × 10−29
Anova : p = 8.78 × 10−1
Anova : p = 1.45 × 10−23
Anova : p = 1.22 × 10−12
Anova : p = 1.62 × 10−19
Anova : p = 5.7 × 10−28
Anova : p = 8.21 × 10−1
Area under ROC curve
efi–discretization, 20
efi–discretization, 30
efi–discretization, 50
efi–discretization, 80
ewi–discretization, 20
ewi–discretization, 30
ewi–discretization, 50
ewi–discretization, 80
gaussian
Likelihood model
Legend
Likelihood model
average samples per bin
Equal frequency interval-discretization
Equal width interval-discretization
Gaussian
20
30
50
80