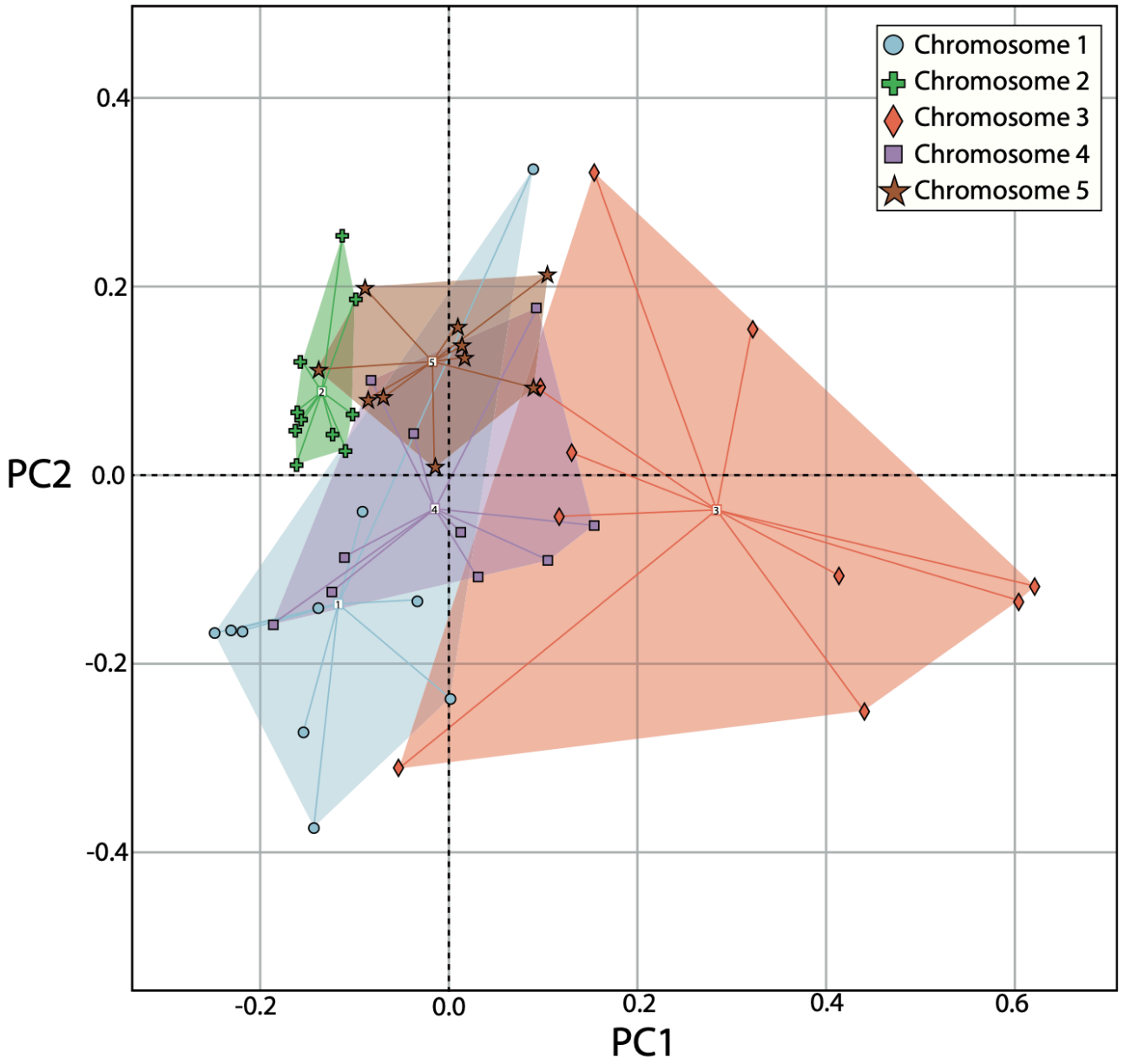

$$d_H(\varphi_1,\varphi_2)^2=\frac{1}{2}\sum_{g\epsilon G_n}\left(\sqrt{P(g|\varphi_1)}-\sqrt{P(g|\varphi_2)}\right)^2,$$

$$d_{KL}(\varphi_1,\varphi_2)=\sum_{g\epsilon G_n}P(g|\varphi_1)\times\log\left(\frac{P(g|\varphi_1)}{P(g|\varphi_2)}\right),$$

$$d_{JS}^2(\varphi_1,\varphi_2)=\frac{1}{2}d_{KL}\left(P(g|\varphi_1);\frac{P(g|\varphi_1)+P(g|\varphi_2)}{2}\right)+\frac{1}{2}d_{KL}\left(P(g|\varphi_2);\frac{P(g|\varphi_1)+P(g|\varphi_2)}{2}\right).$$