Type	Mean	Variance
rs-fMRI ($\mathbf{d}^*_{\mathbf{ROI}}$)	$\dfrac{2p(p-1)}{\sqrt{\pi(p-3)}}$	$\dfrac{4(\pi-2)p(p-1)}{\pi(p-3)}$
rs-fMRI ($\mathbf{d}_{\mathbf{ROI}}$)	$\boxed{\dfrac{2p(p-1)}{\mu(m,p)\sqrt{\pi(p-3)}}}$ where $\mu(m,p) = \dfrac{1}{\sqrt{p-3}}\Phi^{-1}\left(1-\dfrac{1}{m(p-1)}\right)$	$\boxed{\dfrac{2[6(p-3)\mu^2(m,p)\log[m(p-1)](\pi-2)-\pi^2]p(p-1)}{\pi(p-3)\mu^2(m,p)(\pi^2+12(p-3)\mu^2(m,p)\log[m(p-1)])}}$ where $\mu(m,p) = \dfrac{1}{\sqrt{p-3}}\Phi^{-1}\left(1-\dfrac{1}{m(p-1)}\right)$
GWAS ($\mathbf{d}_{\mathbf{GM}}$)	$\boxed{2\sum_{a=1}^{p} F(a)}$ where $F(a) = \left[2(1-f_a)^3 f_a + 2f_a^3(1-f_a) + (1-f_a)^2 f_a^2\right]$, and f_a is the probability of a minor allele at locus a.	$\boxed{2\sum_{a=1}^{p} F(a)[1-2F(a)]}$ where $F(a) = \left[2(1-f_a)^3 f_a + 2f_a^3(1-f_a) + (1-f_a)^2 f_a^2\right]$, and f_a is the probability of a minor allele at locus a.
GWAS ($\mathbf{d}_{\mathbf{AM}}$)	$\boxed{2\sum_{a=1}^{p} F(a)}$ where $F(a) = \left[(1-f_a)^3 f_a + f_a^3(1-f_a) + (1-f_a)^2 f_a^2\right]$, and f_a is the probability of a minor allele at locus a.	$\boxed{\sum_{a=1}^{p}\left[G(a) - 4F^2(a)\right]}$ where $F(a) = \left[(1-f_a)^3 f_a + f_a^3(1-f_a) + f_a^3(1-f_a) + (1-f_a)^2 f_a^2\right]$, $G(a) = \left[(1-f_a)^3 f_a + f_a^3(1-f_a) + 2(1-f_a)^2 f_a^2\right]$, and f_a is the probability of a minor allele at locus a.
GWAS ($\mathbf{d}_{\mathbf{TiTv}}$)	$\boxed{(\gamma_0+\gamma_2+2\gamma_1)\sum_{a=1}^{p} F(a) + \left[\frac{3}{2}(\gamma_0+\gamma_2)+2\gamma_1\right]\sum_{a=1}^{p} G(a)}$ where $F(a) = \left[(1-f_a)^3 f_a + f_a^3(1-f_a)\right]$ and $G(a) = (1-f_a)^2 f_a^2$, f_a is the probability of a minor allele at locus a, and γ_0, γ_1, and γ_2 are probabilities of PuPu, PuPy, and PyPy, respectively, at locus a.	$\boxed{\begin{aligned}&\left[\frac{1}{4}(\gamma_0+\gamma_2)+\gamma_1\right]\sum_{a=1}^{p} F(a) + \left[\frac{9}{8}(\gamma_0+\gamma_2)+2\gamma_1\right]\sum_{a=1}^{p} G(a)\\ &+\sum_{a=1}^{p}\left[(\gamma_0+\gamma_2+2\gamma_1)F(a) + \left[\frac{3}{2}(\gamma_0+\gamma_2)+2\gamma_1\right]G(a)\right]^2\end{aligned}}$ where $F(a) = \left[(1-f_a)^3 f_a + f_a^3(1-f_a)\right]$ and $G(a) = (1-f_a)^2 f_a^2$, f_a is the probability of a minor allele at locus a, and γ_0, γ_1, and γ_2 are probabilities of PuPu, PuPy, and PyPy, respectively, at locus a.