$f(x \theta)$	$\pi(heta)$	$\pi(\theta x)$
Negative Binomial	Beta	
$\mathcal{N}eg(m, heta)$	$\mathcal{B}e(lpha,eta)$	$\mathcal{B}e(\alpha+m,\beta+x)$
Multinomial	Dirichlet	
$\mathcal{M}_k(heta_1,\ldots, heta_k)$	$\mathcal{D}(\alpha_1,\ldots,\alpha_k)$	$\mathcal{D}(\alpha_1 + x_1, \dots, \alpha_k + x_k)$
Normal	Gamma	
$\mathcal{N}(\mu, 1/ heta)$	$\mathcal{G}a(lpha,eta)$	$G(\alpha + 0.5, \beta + (\mu - x)^2/2)$