

Beta-binomial

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$$f(y|\mu, \sigma) = \frac{\Gamma(n+1)\Gamma(y+1)\Gamma(n-y+1)}{\Gamma(n+1)} \frac{\Gamma(y+\mu/\sigma)\Gamma(1/\sigma)\Gamma(n+(1-\mu)/\sigma-y]}{\Gamma(n+1)\Gamma(\mu/\sigma)\Gamma((1-\mu)/\sigma)} \quad (1)$$