Erratum and Addendum Iterative Group Analysis (iGA): A simple tool to enhance sensitivity and facilitate interpretation of microarray experiments.

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Equation (1) in the paper should read as follows:

$$p(z,n,t,x) = p(z-1,n,t,x) - \frac{\binom{t}{z-1}\binom{n-t}{x-z+1}}{\binom{n}{x}}; p(0,n,t,x) = 1 \quad (1)$$

which is equivalent to:

$$p(z,n,t,x) = 1 - \sum_{i=0}^{z-1} \frac{\binom{t}{i}\binom{n-t}{x-i}}{\binom{n}{x}} \quad (2)$$

where n is the total number of genes, x is the total number of class members, z is the current step in the iterative analysis process, and t is the rank of the z-th class member.

1 Matlab implementation

The corresponding Matlab code is as follows:

```
function I = iga(z,n,t,x);

if (z == 0)
    I = 1;
else
    I = iga(z-1,n,t,x)-hyper(z-1,n,t,x);
end


function Y=hyper(z,n,t,x)

if ((x-z)>(n-t))
    Y = 0;
else
    Y = nchoosek(t, z)*nchoosek(n-t,x-z)/nchoosek(n,x);
end
```