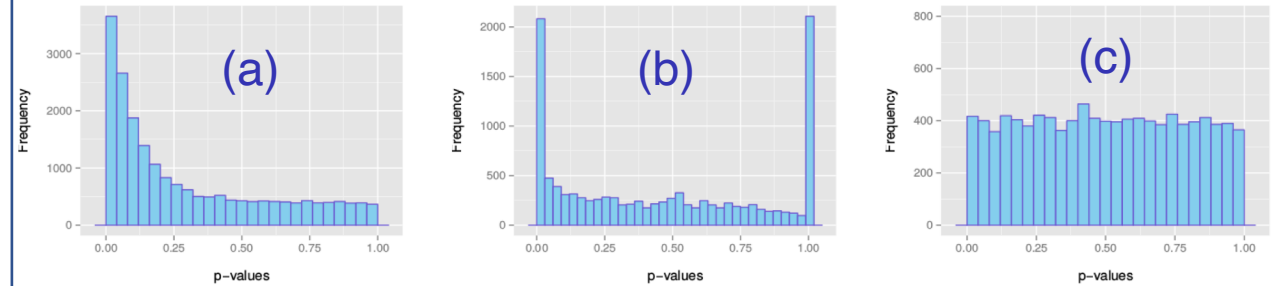


Source : M. Guedj, Pharnext

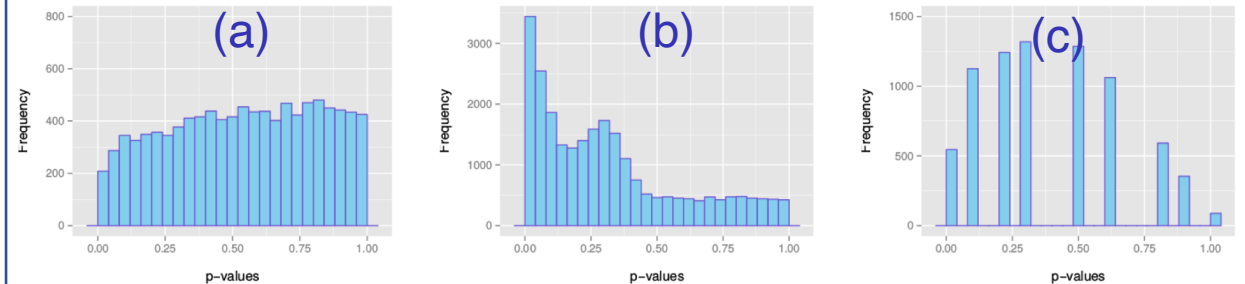
Sources: G. Marot (INRIA)
J. Aubert et C. Hennequet-Antier (INRA)
M.A. Dillies (Institut Pasteur Paris)

Examples of expected overall distribution



- (a) : the most desirable shape
- (b) : very low counts genes usually have large p-values
- (c) : do not expect positive tests after correction

Examples of not expected overall distribution



- (a) : indicates a batch effect (confounding hidden variables)
- (b) : the test statistics may be inappropriate (due to strong correlation structure for instance)
- (c) : discrete distribution of p-values : unexpected