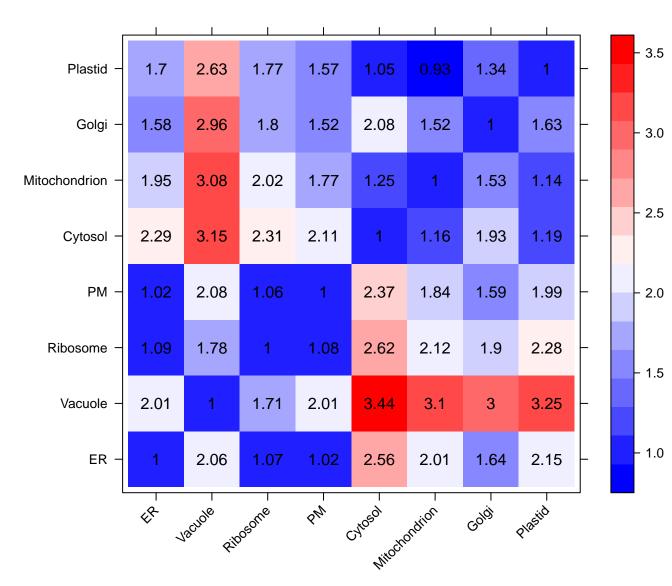nikolovski2014