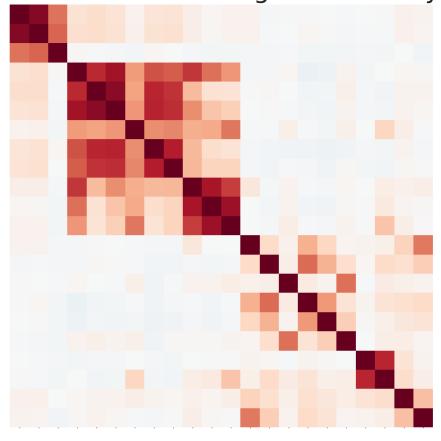LM22 extracts biological similarity