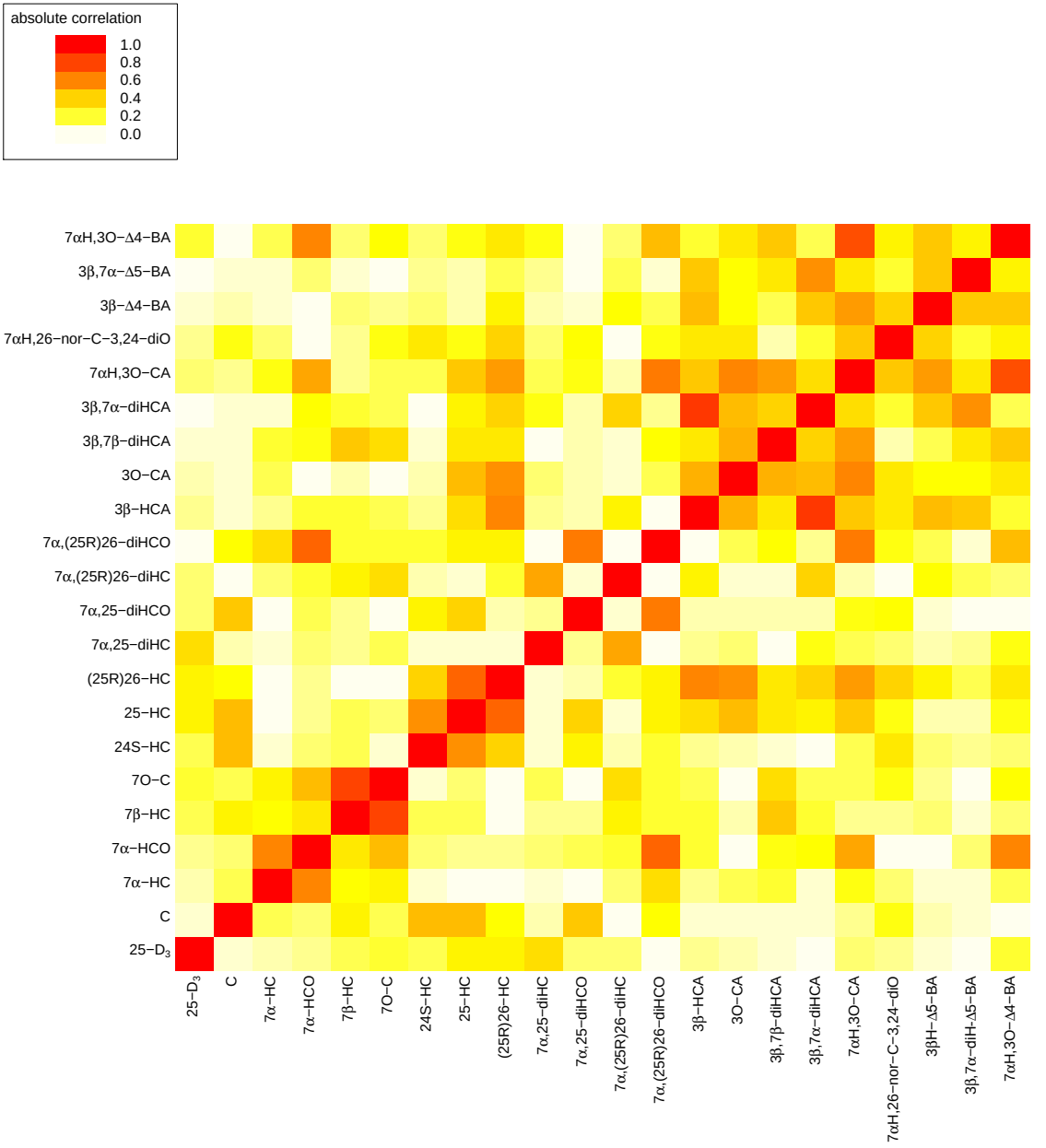ESM_11 (Griffiths)