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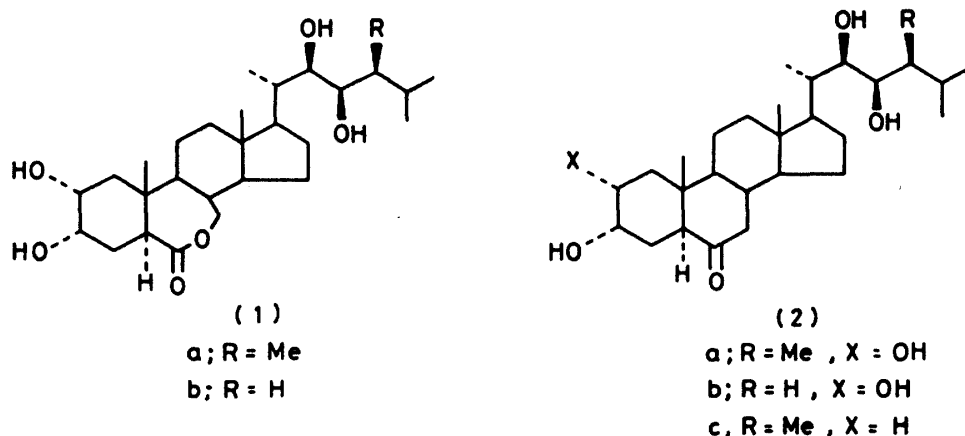
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Stereoselective Synthesis of Plant Growth-promoting Steroids, Brassinolide, Castasterone, Typhasterol and their 28-Nor Analogues*

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Plant growth-promoting steroids, brassinolide (1a), (22*R*,23*R*,24*S*)-2 α ,3 α ,22,23-tetrahydroxy- β -homo-7-oxa-5 α -ergostan-6-one, castasterone (2a), (22*R*,23*R*,24*S*)-2 α ,3 α ,22,23-tetrahydroxy-5 α -ergostan-6-one, 28-norbrassinolide (1b), (22*R*,23*R*)-2 α ,3 α ,22,23-tetrahydroxy- β -homo-7-oxa-5 α -cholestan-6-one, brassinone (2b), (22*R*,23*R*)-2 α ,3 α ,22,23-tetrahydroxy-5 α -cholestan-6-one, and typhasterol (2c), (22*R*,23*R*,24*S*)-3 α ,22,23-trihydroxy-5 α -ergostan-6-one, have been stereoselectively synthesized. These steroids show very strong biological activities in three different kinds of bioassays.



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