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Ecofriendly microwave synthesis of diamino-pyrrolo-dipyrimidines with their antifungal efficacy

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Heterocyclic compounds prominently incorporate in the development of chemical, pharmaceutical, medicinal and agriculture sectors. Nowadays, it is the most requirements for the fundamental development of all sectors. Mostly the preparation of the organic compounds by using several synthetic methods with conventional routes but at the present time there is a strong recommendation and preferences should drive for eco-friendly methods should adopt for the chemical syntheses. To achieve the goal of the green method, here the researchers have been developed the simple and clean green method and implemented to accomplish the pyrimidine derivatives. The diamino-pyrrolo-dipyrimidines derivatives were synthesized and demonstrated by the simple and clean one-pot system using formerly prepared bis-chalcone derivatives from different substituted phenyl succinimides and guanidine nitrate with neutral corundum irradiated under the microwave supported solvent free conditions. All the synthesized diamino-pyrrolo-dipyrimidines derivatives were examined their antifungal activities and revealed the synergistic and significant activities along with Candida albicans and Aspergillus niger fungal strains.

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