

Name: H. B. Borate
Division: Organic Chemistry
Email: hb.borate@ncl.res.in
Phone: 020-2590-2546
Fax: 020-2590-2629



Education and experience

- PhD: Pune University, 1986
- Post-doc: SMU, Dallas, Texas, USA, 1987-1989
- SLA to Sc F, NCL, 1980 to till date

Achievements

- Three US patents granted for new antifungal agents

Research subjects:

- Organic chemistry

Research Areas

- Synthetic organic chemistry
- Development of methodologies for organic reactions
- Process development for drugs

Recent publications

* Fluconazole analogues containing 2*H*-1,4-benzothiazin-3(4*H*)-one or 2*H*-1,4-benzoxazin-3(4*H*)-one moieties, a novel class of anti-*Candida* agents;

H. B. Borate *et al.*,

Bioorg. Med. Chem. Lett. **20** (2), 722-725 (2010).

* Novel hybrids of fluconazole and furanones: Design, synthesis and antifungal activity;

H. B. Borate *et al.*,

Bioorg. Med. Chem. Lett. **21** (16), 4873-8 (2011).

* One-step synthesis of 4-alkyl-3-aryl-2,6-dicyanoanilines and their use in the synthesis of highly functionalized 2,3,5,6,7- and 2,3,4,5,7-substituted indoles;

H. B. Borate *et al.*,

Tetrahedron Lett. **52** (42), 5491-5493 (2011).

* One-step method for the synthesis of aryl olefins from aryl aldehydes and aliphatic aldehydes;

H. B. Borate *et al.*,

Tetrahedron Lett. **54** (12), 1528-1530 (2013).