**Iminophosphorane-Catalyzed Enantioselective Ketimine Nitro-Mannich Reaction**

**Significance:** Dixon and co-workers report a new class of bifunctional Brønsted base/H-bond donor organocatalyst. The catalyst (bifunctional iminophosphorane, BIMP) can be applied to the ketimine nitro-Mannich reaction, generating β-nitroamines in good to excellent yields and enantioselectivities.

**Comment:** The authors developed a new catalyst motif consisting of a triaryliminophosphorane moiety as a Brønsted base and a thiourea moiety as an H-bond donor. The catalyst can be easily synthesized via Staudinger reaction of an organoazide and a triarylphtosine. The efficiency of the catalyst was demonstrated by the application to the first catalytic enantioselective addition of nitromethane to ketone-derived imines under metal-free conditions. The reaction can be scaled up to multigrams and gives access to enantiomerically pure quaternary α-amino acids.

**Synthesis of new BIMP (bifunctional iminophosphorane) organocatalyst:**

**Selected examples:**

- 86% yield  
  er = 97.5:2.5

- 95% yield  
  er = 96:4

- 62% yield  
  er = 96.5:3.5

- 95% yield  
  er = 95:5

- 71% yield  
  er = 89:11