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STUDIES ON SYNTHESIS OF AMINE-CARBOXYBORANES (BORON
ANALOGUES OF AMINO AC. (U) DUKE UNIV DURHAM NC
B F SPIELVOGEL ET AL. 17 AUG 87 ARO-20052.10-CH

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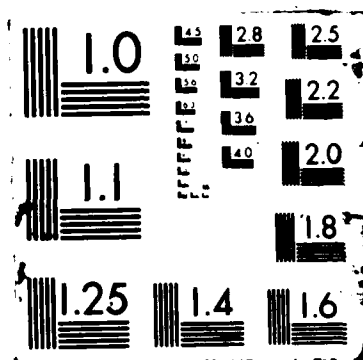
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The principal goal of this research has been the synthesis and characterization of boron analogues of important biologically active molecules such as the amino acids. During this period of research syntheses were developed for esters and amides of a variety of simple boron analogues of amino acids. Also, routes to boron analogues of choline, acetylcholine and substituted acetylcholines were developed. Collaborative studies on the biological activity of many of these compounds were carried out by Professor Iris H. Hall at the University of North Carolina (cont.)		

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Studies on Syntheses of Amine-Carboxyboranes
(Boron Analogues of Amino Acids) and Derivatives

Final Report

Bernard F. Spielvogel and Andrew T. McPhail

August 17, 1987

Duke University
Durham, N.C. 27706

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The principal goal of this research has been the synthesis and characterization of boron analogues of important biologically active molecules such as the amino acids. During this period of research syntheses were developed for esters and amides of a variety of simple boron analogues of amino acids. Also, routes to boron analogues of choline, acetylcholine and substituted acetylcholines were developed. Collaborative studies on the biological activity of many of these compounds were carried out by Professor Iris H. Hall at the University of North Carolina. Significant antitumor and hypolipidemic activity have been found in animal model studies.

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