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Additions and Corrections

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Jun Pan, Jeff W. Kampf, and Arthur J. Ashe III*

Electrophilic Aromatic Substitution Reactions of 1,2-Dihydro-1,2-azaborines.

Page 681. The Acknowledgment section of this paper should have included a statement thanking Mr. Joseph D. Davidson for performing some preliminary work on the bromination and deuteration of **1a**. We apologize for this omission.

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Meena, Mui Sam, Kathryn Pierce, Jack W. Szostak, and Larry W. McLaughlin*

2′,3′-Dideoxy-3′-thionucleoside Triphosphates: Syntheses and Polymerase Substrate Activities.

Page 1161. Further studies with MALDI-TOF MS show that our conclusion that DNA polymerases can catalyze the attack of a thiol nucleophile on a phosphate electrophile to generate a phosphorothiolate linkage is incorrect. We sincerely regret any confusion that this may have caused.

Additional studies with MALDI-TOF MS have shown that all primer-extension products beyond the addition of one thionucleotide to the primer appear to be due to low-level contaminating dNTPs of unknown origin. This is surprising particularly for the T and C thio-ddNTPs that were isolated by HPLC as the disulfide derivatives, thus excluding native dNTPs, and reduced to the thiols just prior to the enzyme studies. We could not detect any native T (MS analysis) after dephosphorylation of thio-ddTTP. Nonetheless, experiments using even more highly purified thio-ddNTPs have consistently failed to result in primer-extension by more than one nucleotide.

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