Metal Complexes of Biologically Important Ligands, CIV [1]. *ortho*-Palladated Complexes of N,N-Dimethyl-C-phenylglycinemethylester. Synthesis of α-Amino Acid Derivatives by Insertion of Isocyanides, CO, Alkenes, and Alkynes into the Pd-C Bond

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N,N-Dimethyl-C-phenylglycinemethylester reacts with Pd(OAc)$_2$ in acetic acid to give the *ortho*-palladated, acetato bridged complex 1. Treatment of 1 with sodium halide affords the chloro, bromo, and iodo bridged compounds [Me$_2$NC(H)(CO$_2$Me)C$_6$H$_4$PdX]$_2$ (2a - c) (X = halide). From 2a and 1,1'-bis(diphenylphosphino)ferrocene the phosphine bridged trinuclear complex 3 is obtained. Substitution of the amine ligand of 2a by the phosphino group is observed for the reaction of 2a with Ph$_2$PC(Me)C(Me)PPh$_2$. Insertion of 2,6-dimethyl-phenylisocyanide, CO, alkyl-vinyl-ketones, and diphenylacetylene into the Pd-C bond of 2a - c provides the ortho-substituted organic and organometallic derivatives of phenylglycine 6a - c, 7, 8a - b and 9a - c. The crystal structures of 1, 4a, 6a, 7 and 9a were determined by X-ray diffraction.

* Sonderdruckanforderungen an Prof. Dr. W. Beck.