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 Total Synthesis of *Lycopodium* Alkaloids Palhinine A and Palhinine D
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Synthesis of Palhinine A and D

Significance: Palhinine A and D are members of the *Lycopodium* alkaloid family isolated from the whole plant of *Palhinhaea cernua* L. Fan and co-workers describe the first total syntheses relying on a microwave-assisted regio- and stereoselective nitron-alkene [3+2] cycloaddition as the key step to access the nine-membered azanone ring system.

Comment: Treatment of hydroxylamine **E** with formalin in CH_2Cl_2 resulted in the formation of nitron **F**, which underwent an intramolecular 1,3-dipolar cycloaddition to give isoxazolidine **G**. N-Alkylation followed by reductive N–O cleavage gave access to the challenging azanone ring system, key structural motif of palhinine A and D.

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