



# Progress in Heterocyclic Chemistry: Chapter 1.

## Progress in Quinoxaline Synthesis (Part 2)

*Vakhid A. Mamedov, Nataliya A. Zhukova*

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# Progress in Heterocyclic Chemistry: Chapter 1. Progress in Quinoxaline Synthesis (Part 2)

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In the second part of this two-part review (for Part 1 see V.A. Mamedov, A. Nataliya, N.A. Zhukova, Prog. Heterocycl. Chem. 2012, 24, 55), recent advances in the synthesis of quinoxalines are reviewed. Syntheses that start from pyrazine fragments and from benzenoid units are discussed. The review covers quinoxaline synthesis starting from anilines and derivatives of anilines, from nitroarenes, from other heterocycles, including benzimidazoles, benzodiazepines, and from fragments that contain neither a pyrazine ring nor a benzene ring, for example, epoxides and azirines, pyrrolidin-3-ones and piperidin-3-ones,  $\gamma$ -butyrolactones, pyran-2,3-diones, and 4-hydroxythiazolidines, amongst others.

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