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In summary, we achieved the annulation reaction of amino acid derivatives with glycidyl compounds as functionalized C 3 building blocks in combination with a cobalt-catalyzed addition of anilines to the epoxide functionality. This rather selective transition-metal catalysed step builds up the alcohol and the amino functionality, which compete in the final ring closure.

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Base induced coupling reactions of ethyl acetoacetate (1)

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A convenient procedure to perform such derivatizations

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starts with a polymer having glycidyl groups. Such polymers can be further derivatized using various reactions including hydrolysis, amination, alkylation, and sulfonation. Some of these reactions are shown in Figure 6.2.6. Other reagents besides those indicated in this figure were used to react with the glycidyl groups bonded to a polymeric backbone.

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derivative 1 in inducing thermal cross linking of PGMA, with a maximum degree of insolubilization increasing up to ca. 90%.

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