Explored heterogeneous systems for DNA-encoded library synthesis

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**Abstract**  
DNA-encoded small molecule libraries offer a high-throughput platform for selection-based compound screening. Common solution-phase library synthesis is limited to few water-tolerant, DNA-compatible reactions, restricting chemical space coverage. Working in heterogeneous systems circumvents these limitations, and may facilitate translation of a broader scope of reactions. Two strategies, solid-phase encoded chemistry and micellar catalysis will be discussed. Newly developed reaction methodology was applied to the design of proof-of-concept encoded libraries, and computer-based statistics tools enabled identification of target protein binders from encoded library selection.

**Ort**  
Chemie, HS3 – Campus Nord, Otto-Hahn-Straße 6  
Anfahrt: [http://gdch.chemie.uni-dortmund.de](http://gdch.chemie.uni-dortmund.de)

**Zeit**  
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*gez. Professor Dr. Daniel Rauh*  
Gesellschaft Deutscher Chemiker  
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