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A SYSTEMS APPROACH TO UNDERSTAND AND ENGINEER WHOLE-CELL REDOX BIOCATALYSTS



Shaker Verlag Feb 2012, 2012. Buch Condition Neu Neuware - Redox-cofactor dependent biotransformations are preferably done in whole microbial cells to exploit the active metabolism for redox-cofactor regeneration. The general assumption that these redox-reactions operate independently of the host metabolism was questioned in this thesis. The potential mutual impact of the redox-cofactor consuming biotransformation and the redoxcofactor regenerating metabolism was investigated by systems biology approaches coupling computational modeling with experimental techniques. Metabolic modeling depicted a dependency of NADH-availability on metabolic...

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