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Terminators in prokaryotes, Polyadenylation - In prokaryotes and organelles, Prokaryotes - Sociality, Start codon - Prokaryotes, Chromosome - Prokaryotes, Prokaryotes - Evolution of prokaryotes, Secretory pathway - Vesicle secretion in prokaryotes, Ribosome biogenesis - In prokaryotes, Prokaryote - Reproduction, Plasma membrane - Prokaryotes, Chemiosmosis - In prokaryotes, Lateral gene transfer - Prokaryotes, Microbe - Prokaryotes, Proton pump - In prokaryotes, Transcriptional regulation - Prokaryotes vs. eukaryotes, Microorganisms - Prokaryotes, Fission (biology) - Binary fission of prokaryotes, Prokaryotes - Reproduction, and much more... Acetylation is a chemical modification conserved in all domains of life. Acetylation has been dominantly defined as a post-translational modification of lysyl residues of proteins carried out by Gcn5 N-acetyltransferases (GNATs, PF 00583). Within a single organism, a genome can code for 7-70 acetyltransferases, all with sequence similarity that currently makes it impossible to determine substrate specificity. There has recently been an upsurge of acetyltransferases that target amine groups of diverse small molecule substrates, rather than proteins, generating an additional layer of complexity in characterizing putative acetyltransferases. In most cases, acetylation of proteins alters the enzyme's activity, providing the cell with a rapid mechanism to adapt to external or internal fluctuations. The protein acetylation paradigm in prokaryotes involves the modification of an

active site lysyl residue of acetyl-CoA synthetase (Acs). In many prokaryotic species, Acs is acetylated by a single protein acetyltransferase containing a regulatory domain, that depending on the organism, responds to amino acids, cAMP, NADP+, or unknown molecules. The cell has adapted to require Acs acetylation, for without it, cellular homeostasis is disturbed through improper control of ATP synthesis. Due to the fact that all organisms carry out acetylation, this thesis focuses on determining acetyltransferase substrate preferences in a variety of prokaryotic organisms. Through this work, acetyltransferases have been characterized in *Salmonella enterica*, *Streptomyces lividans*, and *Rhodospseudomonas palustris*. In *S. enterica*, characterization of a toxin protein acetyltransferase led to insight into how the cell enters persistence during infection. Additionally, using a *S. enterica* model for phosphinothricin detoxification, acetyltransferases from *Deinococcus radiodurans*, *Geobacillus kaustophilus*, *Bacillus subtilis*, *Burkholderia xenovorans*, *Staphylococcus aureus*, *Acinetobacter baylyi*, and *Escherichia coli* were characterized as small molecule acetyltransferases that detoxified a myriad of methionine derivatives. In *S. lividans*, Acs acetylation was found to be unique in that it required serine acetylation within the active site. Lastly, in *R. palustris*, small molecule acetylation of aminobenzoates was essential to benzoate catabolism and

synthesis of reaction center proteins. Although the projects are diverse, each answers unique questions about protein and small molecule acetylation in prokaryotic physiology. The Thrive in Bioscience revision guides are written to help undergraduate students achieve exam success in all core areas of bioscience. They communicate all the key concepts in a succinct, easy-to-digest way, using features and tools - both in the book and in digital form - to make learning even more effective. MCAT multiple choice questions has 777 MCQs. MCAT practice tests questions and answers, MCQs on protein structure and function, proteins metabolism, analytical methods, carbohydrates, citric acid cycle, DNA replication, DNA structure, enzyme activity, enzyme structure, eukaryotic chromosome organization of MCAT MCQs with answers, amino acids, fatty acids, gene expression in prokaryotes, genetic code, glycolysis, gluconeogenesis, pentose MCQs and quiz to practice for exam prep. MCAT practice multiple choice quiz questions and answers, MCAT exam revision and study guide with MCAT practice tests for online exam prep and interviews. Medical school job interview questions and answers to ask, to prepare and to study for jobs interviews and career MCQs with answer keys. Amino acids quiz has 19 multiple choice questions. Citric acid cycle quiz has 12 multiple choice questions. Analytical methods quiz has 14 multiple choice questions with answers. Carbohydrates quiz has 41 multiple choice questions. DNA replication quiz has 25

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