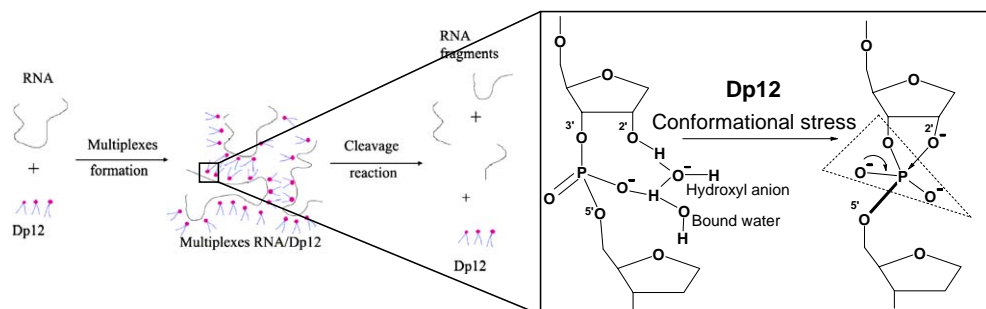


Cleavage of RNA by an amphiphilic compound lacking traditional catalytic groups

pp 33–45

N.A. Kovalev, D.A. Medvedeva,
M.A. Zenkova,* V.V. Vlassov

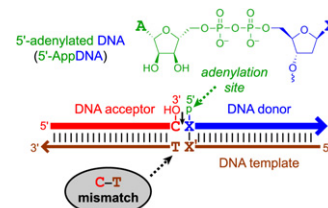


Improvement of DNA adenylation using T4 DNA ligase with a template strand and a strategically mismatched acceptor strand

pp 46–56

Maha P. Patel, Dana A. Baum, Scott K. Silverman*

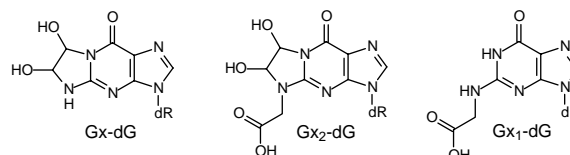
An improved procedure for DNA adenylation is developed. The procedure uses T4 DNA ligase, ATP, a DNA template, and an acceptor strand with a strategic C–T acceptor–template mismatch adjacent to the adenylation site. This mismatch permits efficient adenylation but suppresses subsequent ligation.



Formation of adducts in the reaction of glyoxal with 2'-deoxyguanosine and with calf thymus DNA

pp 57–64

Donata Pluskota-Karwatka, Agnieszka J. Pawłowicz, Magdalena Tomas,
Leif Kronberg*

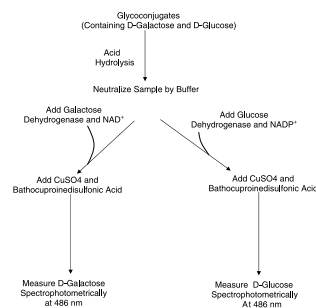


The glyoxal adducts formed in reactions with 2'-deoxyguanosine and with calf thymus DNA.

The utilization of bathocuproinedisulfonic acid as a reagent for determining D-glucose and D-galactose levels in glycoconjugates

pp 91–95

David M. Sovic, Leanna R. Lester, Elizabeth E. Murray,
Menashi A. Cohenford*

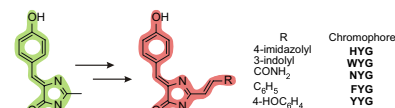


Synthesis and properties of the red chromophore of the green-to-red photoconvertible fluorescent protein Kaede and its analogs

pp 96–104

Ilia V. Yampolsky, Alexander A. Kislukhin, Tynchtyk T. Amatov, Dmitry Shcherbo,
Victor K. Potapov, Sergey Lukyanov, Konstantin A. Lukyanov*

A general method to synthesize red chromophores of Kaede type (Kaede is a green-to-red photoconvertible fluorescent protein belonging to the Green Fluorescent Protein family) is described. Synthesis of Kaede-like chromophores with different groups corresponding to natural amino acids made it possible to evaluate their influence on spectral properties of the chromophore and to find structures with the most red-shifted absorption and emission.

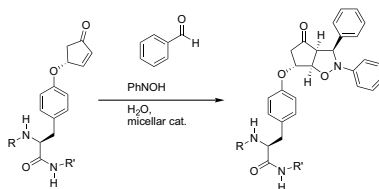


PRELIMINARY COMMUNICATION

Synthesis and bioorthogonal coupling chemistry of a novel cyclopentenone-containing unnatural tyrosine analogue

pp 105–111

Gianni R. Lorello, Marc C.B. Legault, Bojana Rakić, Kathrine Bisgaard, John Paul Pezacki*



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