

Publications Related to the AIC Mass Spectrometry Facility

2003

1. Zazopoulos, E., et al., *A genomics-guided approach for discovering and expressing cryptic metabolic pathways*. Nature Biotechnology, 2003. **21**(2): p. 187–190.
2. Yang, J., et al., *Studies on the substrate specificity of Escherichia coli galactokinase*. Org Lett, 2003. **5**(13): p. 2223–6.
3. Shen, B. and W. Liu, *The Streptomyces globisporus gene cluster for biosynthesis of the enediyne antitumor antibiotic C-1027 and the generation of novel variants*. 2003, (Wisconsin Alumni Research Foundation, USA). Application: US US. p. 119 pp, Cont -in-part of U S Ser No 159,257.
4. Shen, B., Y.-q. Cheng, and G.-l. Tang, *The leinamycin biosynthetic enzymes of Streptomyces atroolivaceus using independent acyltransferase module and the gene cluster encoding them and their uses*. 2003, (Wisconsin Alumni Research Foundation, USA). Application: US. p. 247 pp, Cont -in-part of Appl No PCT/US02/08937.
5. Restituyo Jose, A., et al., *Conversion of aryl azides to O-alkyl imidates via modified Staudinger ligation*. Organic letters, 2003. **5**(23): p. 4357–60.
6. Rajski, S.R., L.R. Comstock, and S.G. Petersen, *Progress on the synthesis of functionally diverse aziridine-based cofactor mimetics*. American Association of Colleges of Pharmacy Annual Meeting, 2003. **104**(JUL): p. NIL_0270.
7. Liu, W., et al., *Rapid PCR amplification of minimal enediyne polyketide synthase cassettes leads to a predictive familial classification model*. Proceedings of the National Academy of Sciences of the United States of America, 2003. **100**(21): p. 11959–63.
8. Li, J. and W.J. Kao, *Synthesis of polyethylene glycol (PEG) derivatives and PEGylated-peptide biopolymer conjugates*. Biomacromolecules, 2003. **4**(4): p. 1055–67.
9. Hyun, C.G., et al., *The biosynthesis of indolocarbazoles in a heterologous E. coli host*. Chembiochem, 2003. **4**(1): p. 114–7.
10. Hoffmeister, D., et al., *Creation of the first anomeric D/L-sugar kinase by means of directed evolution*. Proc Natl Acad Sci U S A, 2003. **100**(23): p. 13184–9.
11. Fu, X., et al., *Antibiotic optimization via in vitro glycorandomization*. Nat Biotechnol, 2003. **21**(12): p. 1467–9.
12. Cheng, Y.-Q., G.-L. Tang, and B. Shen, *Type I polyketide synthase requiring a discrete acyltransferase for polyketide biosynthesis*. Proceedings of the National Academy of Sciences of the United States of America, 2003. **100**(6): p. 3149–54.

13. Burmania, J.A., G.J. Martinez-Diaz, and W.J. Kao, *Synthesis and physicochemical analysis of interpenetrating networks containing modified gelatin and poly(ethylene glycol) diacrylate*. *J Biomed Mater Res A*, 2003. **67**(1): p. 224–34.
14. Biggins, J.B., K.C. Onwueme, and J.S. Thorson, *Resistance to enediyne antitumor antibiotics by CalC self-sacrifice*. *Science*, 2003. **301**(5639): p. 1537–41.
15. Albermann, C., et al., *Substrate specificity of NovM: implications for novobiocin biosynthesis and glycorandomization*. *Org Lett*, 2003. **5**(6): p. 933–6.