Table I. Activity of 4'-Deoxydaunorubicin (3) and 4'-Deoxyadriamycin (4) on L1210 Leukemia in Mice[a]

| Compd | Optimal dose[b] | T/C[c] | LST[d] |
|---|---|---|---|
| Daunorubicin | 2 | 162 | |
| 3 | 4 | 162 | |
| Adriamycin | 5 | 155 | 2/10 |
| 4 | 4 | 177 | 2/10 |

[a] Tumor inoculum $10^5$ cells, ip. [b] Treatment ip on day 1 (mg/kg of body weight). [c] Average survival time expressed as percent of untreated controls. Median survival time of untreated controls was 9 days. [d] Long-term survivors (60 days). No toxic deaths were observed at optimal doses indicated.

Table II. Comparison of 4'-Deoxyadriamycin (4) with Adriamycin on Solid Sarcoma 180 in Mice

| Compd | Dose[a] | Tumor growth[b] | T/C[c] |
|---|---|---|---|
| Adriamycin | 1.6 | 52 | 95 |
| | 2 | 51 | 184 |
| 4 | 0.8 | 47 | 90 |
| | 1 | 46 | 143 |

[a] Treatment iv on days 1-5 (mg/kg/day). [b] Tumor size evaluated in live animals on day 11 after tumor implant expressed as percent of untreated controls. [c] Average survival time expressed as percent of untreated controls. Median survival time of untreated controls was 22 days.

**Acknowledgments.** The authors are indebted to A. Di Marco and A. M. Casazza of the Istituto Nazionale per lo Studio e la Cura dei Tumori, Milan, for the biological data; to A. Vigevani and B. Gioia for the interpretation of the $^1$H NMR and mass spectra; and to A. Alemanni for elemental analysis.

## References and Notes

(1) S. K. Carter, *J. Natl. Cancer Inst.*, **55**, 1265 (1975).
(2) F. Arcamone, S. Penco, and A. Vigevani, *Cancer Chemother. Rep.*, **6**, 123 (1975).
(3) F. Arcamone, S. Penco, A. Vigevani, S. Redaelli, G. Franchi, A. Di Marco, A. M. Casazza, T. Dasdia, F. Formelli, A. Necco, and C. Soranzo, *J. Med. Chem.*, **18**, 703 (1975).
(4) F. Arcamone, A. Bargiotti, G. Cassinelli, S. Penco, and S. Hanessian, *Carbohyd. Res.*, **46**, C3 (1976).
(5) F. Arcamone, A. Bargiotti, A. Di Marco, and S. Penco, British Patent Application 18098/75 (April 30, 1975); S. Hanessian and J. Banoub, *Carbohyd. Res.*, **44**, C14 (1975), and references cited therein.
(6) F. Arcamone, G. Franceschi, and S. Penco, U.S. Patent 3 803 124 (April 9, 1974).

**Federico Arcamone,* Sergio Penco, Silvio Redaelli**
*Farmitalia, Ricerca Chimica, Milano, Italy*

**Stephen Hanessian**
*Department of Chemistry, University of Montreal Montreal, Quebec, Canada*

*Received June 23, 1976*

# *Additions and Corrections*

### 1968, Volume 11

**Girgis M. Bebawi and J. P. Lambooy**: Synthesis of Substituted 4-Dimethylaminoazobenzenes and a Study of Their Effect on *Lactobacillus casei* and *Escherichia coli*.

Page 580. In column 2, line 1, "certainty on complete" should read certainty or complete.

Page 581. In Table I under Composition, the sixth formula should be $C_{17}H_{21}N_3$, the seventh formula $C_{17}H_{21}N_3$, and the eighth formula $C_{18}H_{23}N_3$.

### 1975, Volume 18

**W. J. Wechter, M. A. Johnson, C. M. Hall, D. T. Warner, A. E. Berger, A. H. Wenzel, D. T. Gish, and G. L. Neil**: *ara*-Cytidine Acylates. Use of Drug Design Predictors in Structure–Activity Relationship Correlation.

Page 342. In column 2, line 23 should read law ($A = Ebc$, where $A$ is the absorbance, $E$ the molar extinction coefficient, etc.). In line 27, the equation should read

$$P = c_{O/W}/c_{W/O} = \frac{(A_O)(E_W b_W)}{(A_W)(E_O b_O)}$$

In line 29, the equation should read

$$P = A_O E_W / A_W E_O$$

**Norman J. Santora and King Auyang**: Non-Computer Approach to Structure–Activity Study. An Expanded Fibonacci Search Applied to Structurally Diverse Types of Compounds.

Page 960. In column 2, line 1, "point number 19" should read point number 14.

**Arthur A. Santilli, Anthony C. Scotese, and John A. Yurchenco**: Synthesis and Antibacterial Evaluation of 1,2,3,4-Tetrahydro-4-oxo-1,8-naphthyridine-3-carboxylic Acid Esters, Carbonitriles, and Carboxamides.

Page 1041. To ref 7 should be added, A. A. Santilli and A. C. Scotese, U.S. Patent 3 853 864 (1974), which specifically describes the preparation of methyl 2-chloro-6-methylnicotinate.

**Gilda H. Loew and J. Randal Jester**: Quantum Chemical Studies of Meperidine and Prodine.

Page 1054. Figures 4 and 5 are mistakenly identical. While the captions of each are correct, Figure 4 itself is wrong. Below is the correct Figure 4.