<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urinary porphyrins in disease</td>
<td>Dobriner, Konrad</td>
<td>1</td>
</tr>
<tr>
<td>The determination of some amino acids in crystalline pepsin</td>
<td>Calvery, Herbert O., Herrriott, Robert M., and Northrop, John H.</td>
<td>11</td>
</tr>
<tr>
<td>Crystalline egg albumin. III. Fractionation of peptic hydrolysis products by dialysis</td>
<td>Calvery, Herbert O., and Schock, Ellen D.</td>
<td>15</td>
</tr>
<tr>
<td>Crystalline egg albumin. IV. The rate of liberation of amino nitrogen and cystine, tyrosine, and tryptophane colorigenic values during peptic, acid, and alkaline hydrolysis of egg albumin</td>
<td>Calvery, Herbert O., Block, Walter D., and Schock, Ellen D.</td>
<td>21</td>
</tr>
<tr>
<td>The vitamin C concentration of the corpus luteum with reference to the stage of the estrous cycle and pregnancy</td>
<td>Biskind, Gerson R., and Glick, David</td>
<td>27</td>
</tr>
<tr>
<td>Nitrogen and sulfur metabolism in suprarenalectomized rats</td>
<td>Sandberg, Marta, and Perla, David</td>
<td>35</td>
</tr>
<tr>
<td>Condensation products of acetoacetic ester. IV. Two highly reactive compounds of glucose and acetoacetic ester</td>
<td>Moore, Carl V., Erlanger, Ruth J., and West, Edward S.</td>
<td>43</td>
</tr>
<tr>
<td>The configurational relationship of methylcyclohexylcarbinol to methylhexylcarbinol</td>
<td>Levene, P. A., and Harris, Stanton A.</td>
<td>55</td>
</tr>
<tr>
<td>Halide distribution in body fluids in chronic bromide intoxication</td>
<td>Mason, Morton F.</td>
<td>61</td>
</tr>
<tr>
<td>On the glucose metabolism of trypanosomes (Trypanosoma equiperdum and Trypanosoma lewisi)</td>
<td>Reiner, L., Smythe, C. V., and Pedlow, J. T.</td>
<td>75</td>
</tr>
<tr>
<td>The determination of carotene and xanthophyll by a single distribution between liquid phases</td>
<td>Clausen, S. W., and McCoord, A. B.</td>
<td>89</td>
</tr>
<tr>
<td>The provitamin D of heat-treated cholesterol</td>
<td>Hathaway, Milicent L., and Lobb, Dorothy E.</td>
<td>105</td>
</tr>
<tr>
<td>Studies in serum electrolytes. X. The water of serum and factors for the calculation of the molality of a solute in serum from the measurement of the specific gravity</td>
<td>Sunderman, F. William.</td>
<td>111</td>
</tr>
<tr>
<td>Determination of free and combined cholesterol in bile</td>
<td>Riegel, Cecilia, and Rose, Henry J.</td>
<td>117</td>
</tr>
<tr>
<td>The excretion of kynurenic acid by the mammalian organism. A method for the identification of small amounts of kynurenic acid</td>
<td>Gordon, William G., Kaufman, Robert E., and Jackson, Richard W.</td>
<td>125</td>
</tr>
</tbody>
</table>
Contents

Jackson, Richard W., and Block, Richard J. Does bis(2-aminoethyl) disulfide (cystamine) promote growth in the rat limited to an inadequate intake of cystine and methionine? ................. 135

Dotti, Louis B., and Hubetz, M. Caroline. The true blood sugar level in insulin shock and convulsions ............................. 141

Nims, Leslie Frederick, and Smith, Paul K. The ionization of lactic acid from zero to fifty degrees .............................. 145

Levene, P. A. A new synthesis of 1-amino-2-hydroxypropane ........ 153

Vickery, Hubert Bradford, and Pucher, George W. Glutamine and asparagine in tobacco leaves ..................................... 157

Hahn, P. F., and Fairman, E. The copper content of some human and animal tissues ................................................... 161

Weech, A. A., Reeves, E. B., and Goetzsch, E. The relationship between specific gravity and protein content in plasma, serum, and transudate from dogs ........................................ 167

Fishman, Jacob B., and White, Abraham. The availability of dl-amino-N-methylhistidine for growth .................................. 175

Danielson, Irvin S. On the presence of creatinine in blood .......... 181

MacLachlan, P. L. Fat metabolism in plants with special reference to sterols ................................................................. 197

Spadola, John M., and Ellis, N. R. The effect of the ingestion of cottonseed oil before and after hydrogenation on the composition of the body fat of the rat ............................................. 205

Riemenschnieder, R. W., and Ellis, N. R. The component fatty acids of goat milk fat .......................................................... 219

Pucher, George W., Sherman, Caroline C., and Vickery, Hubert Bradford. A method to determine small amounts of citric acid in biological material ....................................................... 235

Sherman, Caroline C., Mendel, Lafayette B., and Smith, Arthur H. The citric acid formed in animal metabolism ................... 247

Sherman, Caroline C., Mendel, Lafayette B., and Smith, Arthur H. The metabolism of orally administered citric acid .......... 265

Hawkins, James A., and Shilling, Charles W. Nitrogen solubility in blood at increased air pressures ...................................... 273

Sterol, Jakob A. The determination of p-bromophenylmercuric acid in the urine of the dog ................................................. 279

Meeker, Dorothy R., and Kesten, H. D. Composition of pathological calcium deposits ..................................................... 289

Fitz, Fred, and Briggs, Maurice. The effect of dextrose ingestion on the cholesterol fractions of the blood .......................... 297

Meyer, Karl, Thompson, Richard, Palmer, John W., and Khorazo, Devorah. The purification and properties of lysozyme .......... 303

Thannhauser, S. J., and Reichel, Max. Studies on animal lipids. X. The nature of cerebrosidase. Its relation to the splitting of polydiaminophosphatide by polydiaminophosphatase ....... 311

Evans, Herbert M., Emerson, Oliver H., and Emerson, Gladys A. The isolation from wheat germ oil of an alcohol, \( \alpha \)-tocopherol, having the properties of vitamin E ......................... 319
TENDELOO, H. J. C.  A new and easy method for the potentiometric determination of calcium concentrations in solutions. .......................... 333

No. 2, March, 1936

BERGMANN, MAX, and ZERVAS, LEONIDAS.  A method for the stepwise degradation of polypeptides ........................................ 341

DUNN, MAX S., and LOSHAKOFF, ABE.  Quantitative investigations of amino acids and peptides.  I. Quantitative formol titration by means of the glass electrode ........................................ 359

WHITE, H. L., and MONAGHAN, BETTY R.  The isoelectric point of adsorbed hemoglobin .......................................................... 371

RAYMOND, ALBERT L.  Hexosemonophosphates.  Glucose-4-phosphate 375

HIMWICH, HAROLD E., GILDEA, EDWIN F., RAKIETEN, NATHAN, and DuBois, Delafield.  The effects of inhalation of carbon dioxide on the carbon dioxide capacity of arterial blood ........................................ 383

DAFT, FLOYD SHELTON, ROBSCHEIT-ROBBINS, FRIEDA S., and WHITTLE, G. H.  Liver injury by chloroform, nitrogen metabolism, and conservation.  Liver function and hemoglobin production in anemia ................................................................. 391

BLATHERWICK, N. R., BRADSHAW, PHOEBE J., CULLIMORE, OWEN S., EWING, MARY E., LARSON, HARDY W., and SAWYER, SUSAN D.  The metabolism of d-xylene ................................................................. 405

HOLMES, FREDERIC E.  Self-sealing vessels for storage of solutions used in the Van Slyke gasometric methods ........................................ 411

BROWN, W. R.  The hydrolysis of starch by hydrogen peroxide and ferrous sulfate ................................................................. 417

Glick, David, and Biskind, Gerson R.  Studies in histochemistry. VI. The quantitative distribution of vitamin C in the small intestine ................................................................. 427

BLUMENTHAL, DORIS.  An immunological study of the reduction of disulfide groups in proteins ................................................................. 433

HELLER, V. G., and HADDAD, MATILE.  Paths of excretion and mineral balance in animals drinking saline and alkaline waters ......................... 439

EVELETH, DONALD F., and MYERS, VICTOR C.  Studies on aluminum. I. A critical study of quantitative colorimetric methods for aluminum on biological material ................................................................. 449

EVELETH, DONALD F., and MYERS, VICTOR C.  Studies on aluminum. II. The storage of intravenously injected aluminum in the dog ................................................................. 467

SMITH, ELIZABETH R. B.  The influence of method of preparation and of cations on the isoelectric point of ovalbumin ................................................................. 473

MEYER, KARL, PALMER, JOHN W., THOMPSON, RICHARD, and KHORAZO, DEVORAH.  On the mechanism of lysozyme action ................................................................. 479

HALL, J. ALFRED, and GISVOLD, OLE.  Chemistry of slash-pine (Pineus caribea, Morelet).  II. Fats, waxes, and resins of the growing tips ......................... 487

ADDIS, T., Poo, L. J., Lew, W., and Yuen, D. W.  Gravimetric methods for the determination of total body protein and organ protein ................................................................. 497