

**DONALD BRUCE McCORMICK, Ph.D.**  
**Fuller E. Callaway Professor of Biochemistry**  
**Emory University School of Medicine**  
**Atlanta, GA 30322-3050**

**Education**

- 1953 B.A., Vanderbilt University. Major: chemistry; Minor: mathematics  
1958 Ph.D., Vanderbilt University. Thesis (under direction of Dr. Oscar Touster):  
Glucuronate, pentitol, and xylulose metabolism; USPHS (NIH) Predoctoral  
Fellow  
1959-60 USPHS Postdoctoral Research Fellow with Dr. Edmond E. Snell, University of  
California, Berkeley; Vitamin B<sub>6</sub> metabolism and pyridoxal kinases

**Professional Positions**

- 1958 (Summer) Consultant Biochemist, Committee on Nutrition for National Defense  
1960 Assistant Professor, Graduate School of Nutrition (now the Division of Nutritional  
Sciences), Cornell University, Ithaca, NY  
1963 (Summer) Visiting Lecturer in Biochemistry, Department of Chemistry, Division of  
Biochemistry, University of Illinois, Urbana  
1963 Associate Professor, Graduate School of Nutrition and the Section of Biochemistry,  
Molecular and Cell Biology, Division of Biological Sciences, Cornell University  
1969-78 Professor, Graduate School of Nutrition, Section of Biochemistry, Molecular and  
Cell Biology, Cornell University  
1978 Liberty Hyde Bailey Professor of Nutritional Biochemistry, Cornell University  
1979-94 Chairman, Department of Biochemistry, Emory, and (concurrently, 1985-1989):  
Executive Associate Dean for Science, Emory School of Medicine  
1979-1997 Fuller E. Callaway Professor, Department of Biochemistry, Emory University  
1997-present Emeritus

**Awards/Honors**

- 1966 Elected Fellow: American Association for the Advancement of Science  
1966-67 Guggenheim Memorial Foundation Fellowship (sabbatic) to Institute for Inorganic  
Chemistry, University of Basel, Switzerland, and Biochemistry Department,  
Agricultural University, Wageningen, The Netherlands  
1967 Erwin Brand Travel Award from the American Society of Biological Chemists  
1970 Mead Johnson Award, American Institute of Nutrition  
1978 Osborne and Mendel Award, American Institute of Nutrition.  
1975 Six months sabbatic: Chemistry Department, University of Arizona, Tucson  
1986 Wellcome Visiting Professor in Basic Medical Sciences at University of Florida  
1989 Wellcome Visiting Professor, Medical College of Pennsylvania  
1989 Award for Excellence, Georgia Nutrition Council  
1992 Lucille S. Hurley Lecturer, University of California, Davis  
1993 Boyd O'Dell Lecturer, University of Missouri, Columbia  
1999 Bristol-Myers Squibb/ Mead Johnson Award for Distinguished Achievement in  
Nutrition Research  
2000 Elected ASNS Fellow in 2000.  
2005 Named in "Top 100 Scientists" by International Biographical Centre, Cambridge

2010 Emory University honored him as a “Distinguished Professor Emeritus”

### **Professional Societies**

American Association for the Advancement of Science (Fellow), American Chemical Society (Division of Biological Chemistry), American Institute of Biological Sciences, American Institute of Chemists (Fellow), American Institute of Nutrition (President, 1991), American Society for Biochemistry and Molecular Biology, American Society for Clinical Nutrition, American Society for Microbiology, American Society for Photobiology, Biophysical Society, NIH Alumni Association, New York Academy of Sciences, Protein Society, Sigma Xi, Society for Experimental Biology and Medicine

### **Research Interests**

Cofactors with emphases on chemistry, biochemistry, and nutrition of vitamins, coenzymes, and metal ions

### **Editorial Board Service (present/past)**

*Analytical Biochemistry; Archives of Biochemistry and Biophysics; Cancer Prevention; Enzyme Communications; Journal of National Cancer Institute; Editorial Committee and Biographical Editor for Journal of Nutrition; Journal of Nutrition, Growth and Cancer; Monatshefte fur Chemie; Proceedings of the Society for Experimental Biology in Medicine; Nutrition Reviews (Contributing Editor); Editorial Advisory Committee, Associate Editor and Editor for Annual Review of Nutrition; Editor for Vitamins and Coenzymes (Methods in Enzymology); Editor for Vitamins and Hormones; Editorial Advisory Committee for Encyclopedia of Dietary supplements*

### **Other Professional Service**

1977-81 Member/Chairman, NIH Nutrition Study Section  
1982 USDA Grant Review Panel  
1983 National Institute of Aging Small Grants Review Panel  
1985-87 NIH Chemical (Metabolic) Pathology Study Section  
1988-92 Member, NCI Board of Scientific Counselors, Cancer Prevention and Control  
1980-85 Member/Chairman, Scientific Advisory Committee to Life Sciences Research Office (FASEB)  
Member, Executive Committee, Association of Medical School Departments of Biochemistry  
Representative from Medical Biochemistry Departments to Council of Academic Societies of Association of American Medical Colleges  
Member, Executive Committee, Georgia Nutrition Council  
Consultant and Distinguished Lecturer, Clinical Nutrition Research Unit, Medical College of Georgia  
1969, 1984 Member, Organizing Committee, IIIrd, VIIIth, IXth (Chairman), Xth International  
1987, 1990 Symposia on Flavins and Flavoproteins Enzymes  
1987, 1989 Member, Organizing Committee, VIIth International Congress on Chemistry and Biology, Aspects of Vitamin B<sub>6</sub> Catalysis; Xth Meeting of Vitamin B<sub>6</sub> and Carbonyl Catalysis, etc.  
1985-91 Co-Chairman, Committee on Diet and Health (NRC, IOM/NAS)  
1987-91 Member/Vice-Chairman, Food and Nutrition Board (IOM/NAS)  
1991-92 Ex-officio Member, U.S. National Committee of the International Union of Nutritional Scientists  
1989-95 Member, Organizing Committee, IInd International Congress on Vitamins and Biofactors in Life Science

- Member/Chairman, FASEB LSRO Committee
- 1990 Member, Dietary Guidelines Implementation Committee (NRC, NAS)
- 1990,1999 Member, Organizing Committee, VIIIth International Symposium on Vitamin B<sub>6</sub> and Carbonyl Catalysis
- 1990-99 NASA Nutrition Advisory Committee
- 1992-95 Member, FASEB, representing A.I.N.
- 1988-91 Scientific Evaluation Panel, Pew Foundation National Nutrition Program Endowment
- 1991 Scientific Evaluation Panel, Heinz Endowment
- 1996-97 Panelist/Reviewer, U.S. Civilian Research and Development Foundation
- 1996-97 Member, Food and Nutrition Board Panel: Folate and Other B Vitamins
- 1998-99 Chairman, Joint FAO/WHO Expert Consultation on Human Vitamin and Mineral Requirements.
- 1999 Subchair, Review Committee on scientific programs, CFSAN/FDA
- 2001 Member, Technical Consultation, Pan Amer. Health Org., Fortification
- 2002 Discussant, B-Vitamins and dietary Beef --- Future Research Directions, NCBA
- 2001- 05 Consultant, Gambro/Navigant
- 2013 Organizing Committee Member, Nutrition Conference-2013

#### **Cornell University Committee Service (1960-1979)**

- Member, New York State College of Agriculture and Life Sciences Policy Committee, Division of Biological Sciences Nominating Committee
- Member, Division of Nutritional Sciences Director Search; Executive, Membership, Appointments and Tenure, and Curricula Committees
- Member, Chairman Search, Section of Biochemistry, Molecular and Cell Biology; Appointments and Tenure, Admissions, Seminar, and Curricula Committees
- Secretary, American Chemical Society
- Secretary, Vice-President, Sigma Xi

#### **Cornell University Teaching Duties**

General lectures in biochemistry; nutritional biochemistry courses; advanced lectures in vitamins and coenzymes; undergraduate Honors research course. Training of students for MS and PhD degrees in both biochemistry and nutrition. Major and minor advisor to graduate and undergraduate students from College of Arts and Sciences and New York State Colleges of Agriculture and Life Sciences and Human Ecology at Cornell

#### **Emory University Committee Service (from August, 1979)**

- Member, Faculty Advisory Council
- Member, Council of Chairs
- Member, Medical Executive Committee of the Medical School
- Member, Nutrition Steering Committee
- Member, Clinical Research Facility Advisory Committee
- Member, Committee for Biomedical Research Support
- Member, University Council on Biosciences
- Member, Life Sciences Building Advisory Committee
- Member, Executive Committee of the Graduate School

Member, Search Committees: Chairman of Dept. of Medicine, Dean of Medical School, and Vice President for Medical Center  
Member, Advisory Committee for Cancer Center  
Chair, Search Committee, Woodruff Professor of Molecular Genetics  
Member, Advisory Committee and Chairman, Research Committee for Emory Emeritus College

**Emory University Teaching Duties**

General lectures and laboratory in biochemistry both for service (Dental, Medical, Physician Associate) and graduate courses. Coverage includes vitamins and coenzymes, metal ions, enzymes, metabolism, and nutrition. Also lectured in Center for Lifelong Learning.

**Listed in:**

*Who's Who in the World; Who's Who in America; Who's Who in the East; Who's Who in Georgia; Who's Who in Education; Who's Who in Technology Today; Dictionary of International Biography; Leaders in American Science; American Men and Women of Science*

**Early Life and School-based Achievements**

1932 Born in Front Royal, VA (July 15)  
Attended junior and senior high schools in Oak Ridge, TN; additional training at Oak Ridge Institute for Nuclear Studies  
1947 First Prize, Tennessee Academy of Science  
Bausch and Lomb Award  
Named Honorary Member, American Association for the Advancement of Science  
1950 Winner, National Westinghouse Science Talent Search

**Personal**

1955 Married: Norma Jean (Dunn)  
Children: Susan Lynn, Donald Bruce Jr., Michael Allen  
Address: 2245 Deer Ridge Drive, Stone Mountain, GA 30087 and  
581 Mountain View Dr. (P.O. Box 81), Scaly Mt., NC 28775

## **PUBLICATIONS**

From nearly 500 publications and approximately 375 report findings that have been supported by fellowships and research grants, largely from the National Institutes of Health, USPHS.

### **Articles in Research Journals**

1. Coniglio, J.G., McCormick, D.B. and Hudson, G.S. (1956) Biosynthesis of fatty acids in liver and intestine of intact normal, fasted, and x-irradiated rats. *Am. J. Physiol.* 185: 577-582
2. Touster, O., Mayberry, R.H. and McCormick, D.B. (1957) The conversion of 1-<sup>13</sup>C-D-glucuronolactone to 5-<sup>13</sup>C-L-xylulose in a pentosuric human. *Biochim. Biophys. Acta* 25: 196-198
3. McCormick, D.B. and Touster, O. (1957) The conversion in vivo of xylitol to glycogen via the pentose phosphate pathway. *J. Biol. Chem.* 229: 451-461
4. McCormick, D.B. and Snell, E.E. (1959) Pyridoxal kinase of human brain and its inhibition by hydrazine derivatives. *Proc. Natl. Acad. Sci. (USA)* 45: 1371-1379
5. McCormick, D.B., Guirard, B.M. and Snell, E.E. (1960) Comparative inhibition of pyridoxal kinase and glutamic acid decarboxylase by carbonyl reagents. *Proc. Soc. Exp. Biol. Med.* 104: 554-557
6. McCormick, D.B., Gregory, M.E. and Snell, E. E. (1961) Pyridoxal phosphokinases. I. Assay, distribution, purification, and properties. *J. Biol. Chem.* 236: 2076-2084
7. McCormick, D.B. and Snell, E.E. (1961) Pyridoxal phosphokinases. II. Effects of inhibitors. *J. Biol. Chem.* 236: 2085-2088
8. McCormick, D.B. (1961) Flavokinase activity of rat tissues and masking effect of phosphatases. *Proc. Soc. Exp. Biol. Med.* 107: 784-786
9. McCormick, D.B. and Touster, O. (1961) Conversion of D[1-<sup>14</sup>C]arabitol, L[1-<sup>14</sup>C]arabitol, and D[1-<sup>14</sup>C]ribitol to liver glycogen in the rat and guinea pig. *Biochim. Biophys. Acta* 192: 598-600
10. McCormick, D.B. and Russell, M. (1962) Hydrolysis of flavin mononucleotide by acid phosphatases from animal tissues. *Comp. Biochem. Physiol.* 5: 113-121
11. McCormick, D.B. (1962) The intracellular localization, partial purification, and properties of flavokinase from rat liver. *J. Biol. Chem.* 237: 959-962
12. McCormick, D.B. and Butler, R.C. (1962) Substrate specificity of liver flavokinase. *Biochim. Biophys. Acta* 65: 326-332
13. Kimmich, G. and McCormick, D.B. (1963) Paper chromatography of flavin analogues. *J. Chromatogr.* 12: 394-400

14. McCormick, D.B., Arsenis, C. and Hemmerich, P. (1963) Specificity of liver flavokinase for 9-(1'-D-ribityl)isoalloxazines variously substituted in positions 2, 6, and 7. *J. Biol. Chem.* 238: 3095-3099
15. McCormick, D.B. (1964) Specificity of flavin-adenine dinucleotide pyrophosphorylase for flavin phosphates and nucleotide triphosphates. *Biochem. Biophys. Res. Commun.* 14: 493-497
16. McCormick, D.B. (1964) Inhibition of flavin-adenine dinucleotide pyrophosphorylase by isoriboflavin. *Nature* 201: 925-926
17. Woods, M.N. and McCormick, D.B. (1964) Effects of dietary phenylalanine on activity of phenylalanine hydroxylase from rat liver. *Proc. Soc. Exp. Biol. Med.* 116: 427-430
18. Arsenis, C. and McCormick, D.B. (1964) Purification of liver flavokinase by column chromatography on flavin-cellulose compounds. *J. Biol. Chem.* 239: 3093-3097
19. Wright, L.D. and McCormick, D.B. (1964) Charge-transfer complexation among biochemically reactive compounds. *Experientia* 20: 501-506
20. McCormick, D.B., Chassy, B.M. and Tsibris, J.C.M. (1964) Coenzyme specificity of D-amino acid oxidase for the adenylate moiety of FAD. *Biochim. Biophys. Acta* 89: 447-452
21. Yang, C.S., Arsenis, C. and McCormick, D.B. (1964) Microbiological and enzymatic assays of riboflavin analogues. *J. Nutr.* 84: 167-172
22. Arsenis, C. and McCormick, D.B. (1964) Coenzyme specificity of NADPH-cytochrome c reductase for flavin phosphates. *Biochim. Biophys. Acta* 92: 440-445
23. McCormick, D.B., Young, S.K. and Woods, M.N. (1965) Effects of acid catabolites on activity in vitro of phenylalanine hydroxylase from rat liver. *Proc. Soc. Exp. Biol. Med.* 118: 131-133
24. Chassy, B.M., Arsenis, C. and McCormick, D.B. (1965) The effect of the side chain of flavins on reactivity with flavokinase. *J. Biol. Chem.* 240: 1338-1340
25. Sander, E.G., Wright, L.D. and McCormick, D.B. (1965) Evidence for function of metal ion in the activity of dihydroorotase from *Zymobacterium oroticum*. *J. Biol. Chem.* 240: 3628-3630
26. McCormick, D.B. (1965) Specific purification of avidin by column chromatography on biotin-cellulose. *Anal. Biochem.* 13: 194-198
27. Tsibris, J.C.M., McCormick, D.B. and Wright, L.D. (1965) Studies on the donor-acceptor complexes relating to the intramolecular association of the riboflavin and adenosine moieties of flavin-adenine dinucleotide. *Biochemistry* 4: 504-509

28. Chassy, B.M. and McCormick, D.B. (1965) Structural requirements of the flavin moiety of flavin-adenine dinucleotide for intramolecular complex formation. *Biochemistry* 4: 2612-2615
29. McCormick, D.B., Young, S.K. and Woods, M.N. (1965) Specificity of the colorimetric assay of tyrosine with l-nitroso-2-naphthol. *Clin. Chim. Acta* 12: 216-218
30. Chassy, B.M. and McCormick, D.B. (1965) Coenzyme specificity of D-amino acid oxidase for the flavin moiety of FAD. *Biochim. Biophys. Acta* 110: 91-96
31. Brady, R.N., Li, L.F., McCormick, D.B. and Wright, L.D. (1965) Bacterial and enzymatic degradation of biotin. *Biochem. Biophys. Res. Commun.* 19: 777-782
32. Yang, C.S. and McCormick, D.B. (1966) The photochemical degradation of flavins as influenced by the length and extent of hydroxylation of the side chain. *J. Am. Chem. Soc.* 87: 5763-5765
33. Arsenis, C. and McCormick, D.B. (1966) Purification of flavin mononucleotide dependent enzymes by column chromatography on flavin phosphate cellulose compounds. *J. Biol. Chem.* 241: 330-334
34. Tsibris, J.C.M., McCormick, D.B. and Wright, L.D. (1966) Studies on the binding and function of flavin phosphates with flavin mononucleotide-dependent enzymes. *J. Biol. Chem.* 241: 1138-1143
35. Brady, R.N., Ruis, H., McCormick, D.B. and Wright, L.D. (1966) Bacterial degradation of biotin. Catabolism of <sup>14</sup>C-biotin and its sulfoxides. *J. Biol. Chem.* 241: 4717-4721
36. Tepper, J.P., McCormick, D.B. and Wright, L.D. (1966) Direct evidence for the conversion of dethiobiotin to biotin in *Aspergillus niger*. *J. Biol. Chem.* 241: 5734-5735
37. Sander, E.G., McCormick, D.B. and Wright, L.D. (1966) Column chromatography of nucleotides over thymidylate-cellulose. *J. Chromatogr.* 21: 419-423
38. Roth, J.A., Chassy, B.M. and McCormick, D.B. (1966) Coenzymatic activities of 2-anilino and 2-morpholino derivatives of FMN with yeast NADPH diaphorase. *Biochim. Biophys. Acta* 118: 429-431
39. Ogunmodede, B.K. and McCormick, D.B. (1966) Sparing of riboflavin in rats by 6,7-dimethyl-9-(ω-hydroxyalkyl)isoalloxazines. *Proc. Soc. Exp. Biol. Med.* 122: 845-847
40. McCormick, D.B. (1966) Synthesis, characterizations and biochemical reactivities of l-N-oxides of 5'-adenylic and 5'-inosinic acids. *Biochemistry* 5: 746-751
41. McCormick, D.B., Li, H.C. and MacKenzie, R.E. (1967) Spectral evidence for the interaction of riboflavin with aromatic hydrocarbons. *Spectrochim. Acta* 23A: 2353-2358



42. Pritchard, A.B., McCormick, D.B. and Wright, L.D. (1967) Optical rotatory dispersion studies on the heat denaturation of avidin and the avidin-biotin complex. *Biochem. Biophys. Res. Commun.* 25: 524-528
43. Yang, C.S. and McCormick, D.B. (1967) Substrate specificity of riboflavin hydrolase from *Pseudomonas riboflavina*. *Biochim. Biophys. Acta* 132: 511-513
44. Sigel, H., Becker, K. and McCormick, D.B. (1967) Ternary complexes in solution. Influence of 2,2'-bipyridyl on the stability of 1:1 complexes of  $\text{Co}^{2+}$ ,  $\text{Ni}^{2+}$ ,  $\text{Cu}^{2+}$ , and  $\text{Zn}^{2+}$  with hydrogen phosphate, adenosine 5'-monophosphate, and adenosine 5'-triphosphate. *Biochim. Biophys. Acta* 148: 655-664
45. Roth, J.A. and McCormick, D.B. (1967) Complexing of riboflavin and its 2-substituted analogs with adenosine and other 6-substituted purine derivatives. *Photochem. Photobiol.* 6: 657-664
46. Ruis, H., McCormick, D.B. and Wright, L.D. (1967) Equilibration and acid hydrolysis of biotin sulfoxides. *J. Org. Chem.* 32: 2010-2012
47. McCormick, D.B. (1967) A simple determination of the extent of deoxygenation. *Lab. Pract. LABP* 16-94: 1381
48. McCormick, D.B. (1967) 9-Halo-derivatives of flavins. *J. Heterocycl. Chem.* 4: 629-631
49. McCormick, D.B., Koster, J.F. and Veeger, C. (1967) On the mechanisms of photochemical reductions of FAD and FAD-dependent enzymes. *Eur. J. Biochem.* 2: 387-391
50. Yang, C.S. and McCormick, D.B. (1967) Degradation and excretion of riboflavin in the rat. *J. Nutr.* 93: 445-453
51. Foley, B.A., MacKenzie, R.E. and McCormick, D.B. (1967) Transport and storage of  $^{14}\text{C}$ -riboflavin in the retina and liver of rats. *Proc. Soc. Exp. Biol. Med.* 126: 715-718
52. Ruis, H., Brady, R.N., McCormick, D.B. and Wright, L.D. (1968) Bacterial degradation of biotin. II. Catabolism of  $^{14}\text{C}$ -homobiotin and  $^{14}\text{C}$ -norbiotin. *J. Biol. Chem.* 243: 547-551
53. Li, H.C., McCormick, D.B. and Wright, L.D. (1968) Metabolism of dethiobiotin in *Aspergillus niger*. *J. Biol. Chem.* 243: 4391-4395
54. Li, H.C., McCormick, D.B. and Wright, L.D. (1968) Conversion of dethiobiotin to biotin in *Aspergillus niger*. *J. Biol. Chem.* 243: 6442-6445
55. McCormick, D.B. and Föry, W. (1968) Base-catalyzed hydrolysis of flavins. Effect of amines and the particular role of position 3. *J. Pharm. Sci.* 57: 841-844

56. Koster, J.F., Veeger, C. and McCormick, D.B. (1968) Photoreduction of amino acid oxidases in the presence of free flavin and the effect of urea. *Biochim. Biophys. Acta* 153: 724-726
57. Visser, J., McCormick, D.B. and Veeger, C. (1968) Relation between conformation and activities of lipoamide dehydrogenase. II. Some aspects of recombination with FAD analogues. *Biochim. Biophys. Acta* 159: 257-264
58. Föry, W., MacKenzie, R.E. and McCormick, D.B. (1968) Flavinyl peptides. I. Syntheses of flavinyl-aromatic amino acids. *J. Heterocycl. Chem.* 5: 625-630
59. McCormick, D.B. and Opar, G.E. (1969) Synthesis of 8-bromo-5'-adenylate-containing nucleotides. *J. Med. Chem.* 12: 333-334
60. Iwahara, S., McCormick, D.B., Wright, L.D. and Li, H.C. (1969) Bacterial degradation of biotin. III. Metabolism of  $^{14}\text{C}$ -carbonyl-labeled biotin. *J. Biol. Chem.* 244: 1393-1398
61. Tu, S.S. and McCormick, D.B. (1969) The biological activity and excretion of 6,7-dimethyl-9-( $\alpha$ -carboxyalkyl)isoalloxazines in rats. *J. Nutr.* 97: 307-310
62. Sigel, H., Griesser, R., Prijs, B., McCormick, D.B. and Joiner, M. (1969) "Hard and soft" behavior of  $\text{Mn}^{2+}$ ,  $\text{Cu}^{2+}$ , and  $\text{Zn}^{2+}$  with respect to carboxylic acids and  $\alpha$ -oxy- or  $\alpha$ -thio-substituted carboxylic acids of biochemical significance. *Arch. Biochem. Biophys.* 130: 514-520
63. MacKenzie, R.E., Föry, W. and McCormick, D.B. (1969) Flavinyl peptides. II. Intramolecular interactions in flavinyl-aromatic amino acid peptides. *Biochemistry* 8: 1839-1844
64. Sigel, H., McCormick, D.B., Griesser, R., Prijs, B. and Wright, L.D. (1969) Metal ion complexes with biotin and biotin derivatives. Participation of sulfur in the orientation of divalent cations. *Biochemistry* 8: 2687-2695
65. Sigel, H., Griesser R. and McCormick, D.B. (1969) On the structure of manganese(II)- and copper(II)-histidine complexes. *Arch. Biochem. Biophys.* 134: 217-227
66. McCormick, D.B., Sigel, H. and Wright, L.D. (1969) Structure of  $\text{Mn}^{2+}$  and  $\text{Cu}^{2+}$  complexes with L-methionine, S-methyl-L-cysteine, L-threonine, and L-serine. *Biochim. Biophys. Acta* 184: 318-328
67. McCormick, D.B. (1969) Chemical syntheses and biocytinase specificity for sulfoxides and sulfone of d-biotin. *Proc. Soc. Exp. Biol. Med.* 132: 502-504
68. Griesser, R., Prijs, B., Sigel, H. and McCormick, D.B. (1969) Binary and ternary  $\text{Me}^{2+}$  complexes with  $\alpha$ - or  $\beta$ -substituted halogeno carboxylic acids. *Inorg. Nucl. Chem. Lett.* 5: 951-956

69. Sigel, H., MacKenzie, R.E. and McCormick, D.B. (1970) On the structure of copper(II)-histidine complexes. *Biochim. Biophys. Acta* 200: 411-413
70. McCormick, D.B. (1970) The tryptophans in flavodoxin and synthetic flavinyl peptides characterized by chemical and photochemical oxidations. *Experientia* 26: 243-244
71. McCormick, D.B. and Roth, J.A. (1970) Specificity, stereochemistry, and mechanism of the color reaction between *p*-dimethylaminocinnamaldehyde and biotin analogues. *Anal. Biochem.* 34: 226-236
72. McCormick, D.B. and Tu, S.C. (1970) Colorimetric determination of tyrosine in the presence of flavin. *Anal. Biochem.* 37: 215-219
73. Föry, W., MacKenzie, R.E., Wu, F.Y.H. and McCormick, D.B. (1970) Flavinyll peptides. III. Studies of intramolecular interactions in flavinyl aromatic amino acids by proton magnetic resonance. *Biochemistry* 9: 515-525
74. Wu, F.Y.H., MacKenzie, R.E. and McCormick, D.B. (1970) Kinetics and mechanism of oxidation-reduction reactions between pyridine nucleotides and flavins. *Biochemistry* 9: 2219-2224
75. Griesser, R., Prijs B., Sigel, H., Föry, W., Wright, L.D. and McCormick, D.B. (1970) Stability and structure of binary and ternary metal ion complexes with biocytin, the sulfoxide and sulfone, N- $\alpha$ -acetyl-L-lysine and L-lysine and L-alanine. *Biochemistry* 9: 3285-3293
76. McCormick, D.B. (1970) Flavin derivatives via bromination of the 8-methyl substituent. *J. Heterocycl. Chem.* 7: 447-450
77. Lee, Y.C., Hayes, M.G.J. and McCormick, D.B. (1970) Microsomal oxidation of  $\alpha$ -thiocarboxylic acids to sulfoxides. *Biochem. Pharm.* 19: 2825-2832
78. Roth, J.A., McCormick, D.B. and Wright, L.D. (1970) Bacterial degradation of biotin. IV. Metabolism of  $^{14}\text{C}$ -carbonyl-labeled biotin *l*-sulfoxide. *J. Biol. Chem.* 245: 6264-6268
79. Im, W.B., Roth, J.A., McCormick, D.B. and Wright, L.D. (1970) Bacterial degradation of biotin. V. Metabolism of  $^{14}\text{C}$ -carbonyl-labeled biotin *d*-sulfoxide. *J. Biol. Chem.* 245: 6269-6273
80. Wu, F.Y.H., Tu, S.C., Wu, W.C. and McCormick, D.B. (1970) Characteristics of the fluorescence spectra of apoenzyme and flavin portions of D-amino acid oxidase. *Biochem. Biophys. Res. Commun.* 41: 381-385
81. Uhler, L.D., Crispen, C.R. and McCormick, D.B. (1971) Free amino acid patterns during development of *Eurosta solidaginis* (Fitch). *Comp. Biochem. Physiol.* 38: 87-91

82. Wu, F.Y.H. and McCormick, D.B. (1971) The fluorescence quenching of aromatic amino acid and flavin portions of flavinyl peptides. *Biochim. Biophys. Acta* 229: 440-443
83. Wu, F.Y.H. and McCormick, D.B. (1971) Flavin-sensitized photooxidations of tryptophan and tyrosine. *Biochim. Biophys. Acta* 236: 479-486
84. Sigel, H. and McCormick, D.B. (1971) The structure of the  $\text{Cu}^{2+}$  L-histidine 1:2 complex in solution. *J. Am. Chem. Soc.* 93: 2041-2044
85. Griesser, R., Hayes, M.G., McCormick, D.B., Prijs, B. and Sigel, H. (1971)  $\text{Mn}^{2+}$ ,  $\text{Cu}^{2+}$ , and  $\text{Zn}^{2+}$  1:1 complexes with biochemically significant thioether carboxylic acids and the sulfoxide and sulfone derivatives. *Arch. Biochem. Biophys.* 144: 628-635
86. Kazarinoff, M.N., Im, W.B., Roth, J.A., McCormick, D.B. and Wright, L.D. (1972) Bacterial degradation of biotin. VI. Isolation and identification of  $\beta$ -hydroxy and  $\beta$ -keto compounds. *J. Biol. Chem.* 247: 75-83
87. Tu, S.C. and McCormick, D.B. (1972) Insolubilized D-amino acid oxidase: Properties and potential use. *Separation Sci.* 7: 403-407
88. Roe, D.A., McCormick, D.B. and Lin, R.T. (1972) Effects of riboflavin on boric acid toxicity. *J. Pharm. Sci.* 61: 1081-1085
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3. Misleading info. July 31, 2001
4. Health article contained errors. Sept. 13, 2001
5. Let's get well. Let's get real. Oct. 19, 2001
6. Professor enjoys Darwin lecture. July 13, 2004
7. Letter misconstrues intent. July 20, 2004
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