

CURRICULUM VITAE

NAME Ludwig Brand
DATE OF BIRTH January 3, 1932
PLACE OF BIRTH Vienna, Austria
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MARITAL STATUS Married to Sheila S. Gallay
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EDUCATION (with dates of degrees)
 1951 Boston Public Latin School
 1955 Harvard College (A.B. Chemistry)
 1960 Indiana University (Ph.D. Chemistry)

POSITIONS

1972-Present Professor of Biology and the McCollum-Pratt Institute, The Johns Hopkins University.
 1985-Present Professor of Biophysics (Joint appointment) The Johns Hopkins University.
 1986 Visiting Professor, University of Parma, Italy 1969-1972 Associate Professor of Biology and the
 McCollum-Pratt Institut ,The Johns Hopkins University, NIH Career Award Development Grant
 1964-1969 Assistant Professor of Biology and the McCollum-Pratt Institute, JHU.
 1961-1963 Research Associate (Fellow of the National Foundation), Weizmann Institute of
 Science, Rehovot, Israel (with Prof.. E. Katchalski(Katzir).
 1959-1961 Research Associate (Fellow of the National Foundation), Brandeis (N.O. Kaplan).
 1955-1959 Research Assistant, Indiana University (with Prof. H.R. Mahler).
 1954-1955 Research Assistant, Tufts University (with Prof. Gerhart Schmidt and M. Bessman)

MEMBER (or past member)

Sigma Xi
 American Society of Biochemistry and Molecular Biology
 American Chemical Society (USA)
 Biophysical Society (USA) Jablonski Award, 1998; Fellow, 2000-
 Advisory Board, RLBL (Regional Laser Facility at the U.of Penn.
 NSF Biophysics-Biochemistry Panel (1983-1986)
 NIH BBICA - Study Section (1986-1990)

EDITORIAL BOARDS

Biochemistry (1973-1978)

Analytical Biochemistry (Editorial Board 1971-1978 ,Executive Editor 1995-2000.

Biophysics of Structure and Mechanism (1979-1982).

J. Biochemical and Biophysical Methods (1979-1980)

Protein Chemistry (1987-2002).

Journal of Fluorescence Spectroscopy (1990-1995)

AWARDS:

NIH Career Award Development Grant.

Jablonski Award of the Biophysical Society

Fellow of the Biophysical Society

PUBLICATIONS:

- 1) Mahler H.R, Wittenberger M.H, and Brand L.(1958) Biochemical Studies of the Developing Avian Embryo .2., Enzymes of the Citric Acid Cycle. Journal of Biological Chemistry 233: 770-82, 1958.
- 2) Brand L, Mahler H. R. Biochemical Studies of the Developing Avian Embryo .3. Oxidation of Reduced Pyridine Nucleotide. Journal of Biological Chemistry 234: 1615-24, 1959.
- 3) Brand L, Dahl C, Mahler H.R., Biochemical Studies of the Developing Avian Embryo .4. Some Respiratory Pigments. Journal of Biological Chemistry 235: 2456-67, 1960.
- 4) Brand L, Kaplan N.O., Everse, J., Structural Characteristics of Dehydrogenases. Biochemistry 1: 423-434, 1962.
- 5) Brand L, Shaltiel, S. Appearance of Fluorescence on Treatment of Histidine Residues With N-Bromosuccinimide. Biochimica Et Biophysica Acta 75: 145- 148 , 1963.
- 6) Brand L, Shaltiel S. Introduction of Fluorescence Into Proteins By Treatment With N-Bromosuccinimide. Israel Journal of Chemistry 1: 51- 1963.
- 7) Brand L, Shaltiel S. Modification Of Histidine Residues Leading To Appearance Of Visible Fluorescence. Biochimica Et Biophysica Acta 88: 338-351, 1964.
- 8) Edelhoch, H., Brand, L., and Wilchek, M. Fluorescence Studies with Tryptophyl Peptides, (1963) Israel Journal of Chemistry, 1, 216.
- 9) Brand L, Gohlke Jr. Evidence for Hydrophobic Regions Near Active Site of Liver Alcohol Dehydrogenase (L-ADH). Federation Proceedings 25: 407-&, 1966.
- 10) Edelhoch H, Brand L, Wilchek M. Fluorescence Studies with Tryptophyl Peptides. Biochemistry 6: 547-&, 1967.
- 11) Brand L, Gohlke J.R., Rao D.S.. Evidence for Binding of Rose Bengal And

Anilinonaphthalenesulfonates At Active Site Regions of Liver Alcohol Dehydrogenase. ³
Biochemistry 6: 3510-3518, 1967.

- 12) Conrad R.H and Brand L. Intramolecular Transfer of Excitation From Tryptophan To 1-Dimethylaminonaphthalene-5-Sulfonamide In a Series Of Model Compounds. Biochemistry 7: 777-787, 1968.
- 13) Griffin C. C and Brand L. Kinetic Implications Of Enzyme-Effector Complexes. Archives of Biochemistry and Biophysics 126: 856- , 1968.
- 14) Witholt B. and Brand L. Versatile Spectrophotofluorometer-Polarization Fluorometer. Review of Scientific Instruments 39: 1271- , 1968.
- 15) Turner D. C and Brand L. Quantitative Estimation Of Protein Binding Site Polarity : Fluorescence of N-Arylamino-naphthalenesulfonates. Biochemistry 7: 3381-&, 1968.
- 16) Witholt B and Brand L. Orientational Anisotropy Of Dye Binding Multioscillator Fluorescence Depolarization. Federation Proceedings 28: 470-&, 1969.
- 17) Gohlke J, R., Conrad R.H., Brand L. Energy Transfer Between Different Fluorochromes Adsorbed To Liver Alcohol Dehydrogenase. Abstracts of Papers of the American Chemical Society B. 161-&, 1969.
- 18) Conrad R.H., Heitz J.R., Brand L. Characterization of A Fluorescent Complex Between Auramine-O And Horse Liver Alcohol Dehydrogenase. Biochemistry 9: 1540-&, 1970.
- 19) Witholt B, Brand L. Multioscillator Fluorescence Depolarization Anisotropy of Dye Binding. Biochemistry 9: 1948-&, 1970.
- 20) Heitz J.R., Easter J.H., Brand L. Auramine-O Binding Site on Horse Liver Alcohol Dehydrogenase. Federation Proceedings 29: A532-&, 1970.
- 21) Brand L, Gohlke Jr. Nanosecond Time-Resolved Fluorescence Spectra of A Protein-Dye Complex. Journal of Biological Chemistry 246: 2317-&, 1971.
- 22) Heitz J.R., Brand L. Fluorescence Changes Associated With Denaturation Of Alcohol Dehydrogenase. Archives of Biochemistry And Biophysics 144: 286-&, 1971.
- 23) Heitz J.R, Brand L. Relation Of Auramine O Binding Site To Active Site Of Horse Liver Alcohol Dehydrogenase. Biochemistry 10: 2695, 1971.
- 24) Gohlke Jr, Makula A.F., Thorndil, Brand L. Nanosecond Time Resolved Emission Studies of Fluorescence Probe-Protein Complexes. Federation Proceedings 30: 1178-&, 1971.
- 25) Seliskar Cj, Brand L. Electronic Spectra Of 2-Aminonaphthalene-6-Sulfonate And Related Molecules .2. Effects Of Solvent Medium On Absorption And Fluorescence Spectra. Journal Of The American Chemical Society 93: 5414-&, 1971.
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- American Chemical Society 93: 5405⁴-&, 1971.
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 - 29) Brand L, Gohlke Jr. Fluorescence Probes for Structure. Annual Review Of Biochemistry 41: 843-&, 1972.
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 - 32) Bowie L.J, Irwin R, Loken M, Deluca M, Brand L. Excited-State Proton-Transfer and Mechanism of Action of Firefly Luciferase. Biochemistry 12: 1852-7, 1973.
 - 33) Easter J.H, Brand L. Nanosecond Time-Resolved Emission-Spectroscopy Of A Fluorescence Probe Bound To L-Alpha-Egg Lecithin Vesicles. Biochemical And Biophysical Research Communications 52: 1086-92, 1973.
 - 34) Gafni A, Brand L. Analysis of Nanosecond Fluorescence Decay Data By Means Of Laplace Transformation. Federation Proceedings 33: 1303, 1974.
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 - 37) Dale R.E., Brand L. Protein Luminescence. Photochemistry and Photobiology 21: 459-63, 1975.
 - 38) Easter J.H., Dale R.E., Chen L, Brand L. Nanosecond Time-Dependent Fluorescence Anisotropy of Probes Adsorbed To Bilayer Lecithin Vesicles. Biophysical Journal 16: A136, 1976.
 - 39) Gafni A, Modlin R.L, Brand L. Nanosecond Fluorescence Decay Studies of 2-Hydroxy-1-Naphthalene Acetic Acid - Excited-State Proton-Transfer. Journal of Physical Chemistry 80: 898-904, 1976.
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- Solvent Environment. *Journal of The American Chemical Society* 98: 5001-7, 1976.
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- 82) Beechem Jm, Ameloot M, Brand L. Global Analysis Of Fluorescence Decay Surfaces - Excited-State Reactions. Chemical Physics Letters 120: 466-72, 1985.
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