

## Merrill Garnett

Director, Garnett McKeen Laboratory, Inc  
7 Shirley Street, Bohemia, NY 11716-1735

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Lab phone: 631-589-0770

E-mail: [newcode@aol.com](mailto:newcode@aol.com)

### Curriculum Vitae

B.A., D.D.S., New York University, 1955

Internship: U.S.Naval Hospital, St. Albans

Graduate Studies: Biochemistry, New York University, Brooklyn College

Advanced Courses: Impedance Spectroscopy (University of Virginia and University of Twente, Holland); Infrared Spectroscopy (University of Connecticut); HPLC (Seton Hall University)

Principal Investigator: Damon Runyon Memorial Fund

Senior Research Chemist: Waldemar Medical Research Foundation

Distinguished Teacher Award: Westinghouse National Science Competitions, 1967

Lecturer: Federated Licensing Examination for Physicians

(Biochemistry)- Central Islip State Hospital

Head, Institutional Research Review Board: Central Islip State Hospital

Research Chemist: Northport Veterans' Medical Center- Hematology, Oncology

Director: Garnett McKeen Laboratory, Inc., High Technology Incubator, State University of New York at Stony Brook

Award of Excellence: Pan American Conference- Aging in America, 1999

### **Publications**

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10. C.V.Krishnan, M.Garnett, B.Chu, Solute-Solvent Interactions from Admittance Measurements: Potential Induced and Water Structure Enforced Ion-Pair Formation, Int'l J. Electrochem.Sci., 2, 958 (2007)
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13. C.V.Krishnan, M.Garnett, Spatio-temporal Oscillations in Biological Molecules: 3. Histidine, 58<sup>th</sup> Ann.Meeting Int'l.Soc.Electrochem., Banff,, Canada (2007)
14. C.V.Krishnan, M.Garnett, B.Chu, Solute-Solvent Interactions Near the Double Layer from Admittance measurements, 7<sup>th</sup> Int'l Symp. Electrochem.. Impedance Spectroscopy, France (2007)
15. C.V.Krishnan, M.Garnett, Examining Solute-Solvent Interactions at the Electrode Double layer by Impedance Measurements of Tetraalkylammonium Ions, 211<sup>th</sup> Meeting Electrochem.Soc., Chicago (2007)
16. C.V.Krishnan, M.Garnett, New Insight into the Double Layer Structure from Impedance Measurements: Implications for Biological Systems, Electrochimica Acta , 51-1541 (2006)
17. C.V.Krishnan, M.Garnett, Liquid crystal behavior in solutions, electrode passivation, and impedance loci in four quadrants, in: Passivation of Metals and Semiconductors, and Properties of Thin Oxide layers, P.Marcus & V.Maurice, (Eds.) Elsevier, Amsterdam, 389-394 (2006)
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20. C.V.Krishnan, M.Garnett, Spatio-temporal Oscillations in Biological Molecules: 3. Lysine and its Electronic influence on Gene Expression, 57<sup>th</sup> Ann.meeting Int.Soc. Electrochem., Edinburgh (2006)
21. M. Garnett, C. V. Krishnan, and B. Chu, The Role of Hydrogen Peroxide in Evolution Evidence from Impedance Measurements, 209<sup>th</sup> Meeting of Electrochemical Society, Denver, Colorado, (2006)
22. C. V. Krishnan, M. Garnett, and B. Chu, Spatio-temporal Oscillations in Biological Molecules: 2. Hydrogen Peroxide and Parkinson's Disease, 209<sup>th</sup> Meeting of Electrochemical Society, Denver, 2006
23. C. V. Krishnan, M. Garnett, and B. Chu, Spatiotemporal Oscillations in Peroxo-Molybdate Complexes: 1. Impedance Measurements of  $H_2Mo_2O_3(O-O)_4(H_2O)_2$ , 54<sup>th</sup> Meeting, International Society of Electrochemistry, Singapore, 2006

24. C.V. Krishnan and M.Garnett, Spatiotemporal Oscillations in Biological Molecules: . . . . .1. DNA-Lysine, The 56<sup>th</sup> Annual Meeting of the International Society of . . . . .Electrochemistry, Busan, Korea, 2005
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26. C. V. Krishnan and M. Garnett, Electrochemical impedance measurements for . . . . .studying biological oscillations, 230<sup>th</sup> American Chemical Society National Meeting, . . . . .Washington D.C., 2005
27. C. V. Krishnan and M. Garnett, Liquid Crystal Behavior in Solutions, Electrode . . . . .Passivation, and Impedance Locus in Four Quadrants, Abstract #67, 9<sup>th</sup> International . . . . .Symposium on the Passivation of Metals and Semiconductors, and the Properties of Thin . . . . .Oxide Layers, Paris 2005
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31. M. Garnett and C. V. Krishnan, Biologiocal Nano-Circulation by Radical Induced . . . . .Dual Polarization, 207<sup>th</sup> Meeting of Electrochemical Society, Quebec, Canada, 2005
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### **Patents**

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2. M. Garnett, Palladium Complexes and Methods for Using same in the Treatment of Tumors, U.S.Patent, No. 5,679,697, Oct.21, (1997)
3. M. Garnett, Palladium Complexes and Methods for Using Same in the Treatment of Tumors and Psoriasis, U.S.Patent, No. 5,463,093, Oct.31(1995)

### **Monograph**

1. M. Garnett, "FIRST PULSE", A Personal Journey In Cancer Research, First Pulse Projects, Inc, New York, 2<sup>nd</sup> edition, (2001); 1<sup>st</sup> Edition (1998)