

Archives  
(Gyermek Collection)  
May 28, 2015

## **RESUME - PERSONAL STATEMENT**

### **LASZLO GYERMEK, M.D., PH.D**

25 Ocean Crest Court  
Rancho Palos Verdes, CA 902745  
Phone: (310) 541-2825, mobile: (310) 718-3277  
E mail: laslogy3@gmail.com

### **SUMMARY OF QUALIFICATIONS:**

Board Certified Anesthesiologist and Pharmacologist with experience in clinical anesthesia, research, teaching and administration

### **PROFESSIONAL DEGREES:**

- 1955 Candidate of Medical Sciences [Ph.D. equivalent in Pharmacology] Hungarian Academy of Sciences
- 1950 M.D. University of Budapest, Faculty of Medicine, Hungary

### **PROFESSIONAL BACKGROUND:**

- April 2003 – 2006 **Principal Investigator**, Los Angeles Biomedical Research Institute, Torrance, CA  
Retired Professor of Anesthesia  
Voluntary Attending Staff, Harbor UCLA Medical Center, Torrance, CA.
- 1991-2003 **Clinical Professor of Anesthesiology, Director, Post-Anesthesia Care Unit (1996-99)**  
Harbor-UCLA Medical Center, Torrance, CA.
- 1994-1997 **Lecturer of Pharmacology**  
Department of Pharmacology  
U.C. Irvine
- 1986-1991 **Associate Professor of Anesthesiology**  
Harbor-UCLA Medical Center, Torrance, CA

- 1984-1986            **Staff Anesthesiologist**  
VA Medical Center, Albuquerque, NM
- 1984-1986            **Adjunct Associate Professor of Surgery (Anesthesia)**  
New Mexico University School of Medicine  
Albuquerque, NM
- 1982-1983            **Staff Anesthesiologist**  
Al Hada Hospital (Saudi Arabian Ministry of Defense,  
and Aviation). Taif, Saudi Arabia
- 1977-1982            **Anesthesiologist,**  
Private Practice, San Francisco Bay Area Hospitals, CA
- 1975-1976            **Associate Professor of Anesthesiology**  
University of California, Davis, CA
- 1969 –1975           **Anesthesiologist**  
Private Practice, San Francisco Bay area Hospitals, CA
- 1968                   **Staff Anesthesiologist**  
Palo Alto Clinic, Palo Alto, CA
- 1966-1968            **Resident in Anesthesia**  
Stanford University, CA
- 1964-1966            **Lecturer**  
Department of Pharmacology, Stanford University, CA
- 1962-1966            **Associate Director of Biological Research**  
Syntex Laboratories, Palo Alto, CA
- 1960-1962            **Senior Pharmacologist**  
Geigy Research, Ardsley, N.Y.
- 1957-1960            **Assistant Professor of Pharmacology**  
University of Illinois, College of Medicine, Chicago, IL

**PART TIME AFFILIATIONS (During Anesthesia Practice years)**

- 1969-1975            Staff Anesthesiologist  
Shriners Hospital, San Francisco, CA
- 1969-1970            Staff Anesthesiologist  
San Mateo County Hospital, San Mateo, CA
- 1969-1970            Research Associate

Dept. of Pediatrics, Stanford University, CA

1968-1973 Clinical Assistant Professor of Anesthesia  
Stanford University, CA

### **SUMMARY OF EMPLOYMENT BEFORE 1957:**

Medical Research and teaching positions in Pharmacology, Budapest, Hungary (1949-1956) Pharmacologist 1951-1953 and Head of the Pharmacology Division, Research Institute of the Pharmaceutical Industry 1953-56, Budapest, Hungary, Teaching and Research Assistant, University of Budapest, Department of Pharmacology, Budapest 1949-51.

### **CERTIFICATES AND LICENSES:**

Specialty Board in Laboratory Medicine, Budapest, 1954  
E.C.F.M.G., Illinois, 1961  
Basic Science Board, New Mexico, 1965  
Diplomate, American Board of Anesthesiology, 1972  
Medical Licenses: Hungary, California, Georgia, (by examination), New Mexico, North Carolina, Washington, Cape Province-South Africa (by endorsement)

### **PROFESSIONAL AFFILIATIONS: (Past and Present)**

Member, Committee on Art Exhibits 1998, American Society of Anesthesiologists  
American Chemical Society, Medicinal Chemistry Section 1994  
Member Emeritus, American Society of Clinical Pharmacology and Chemotherapy, 1993  
Member, NIH Consultant File, 1992  
Member, Serotonin Club, 1990  
Society for Pharmaceutical Medicine 1991  
Collegium Internationale Neuro-Psychopharmacologicum 1987  
Member, Editorial Advisory Board, Archives Internationales de Pharmacodynamie et de Therapie, Ghent, Belgium, 1987  
International Anesthesia Research Society 1970  
American Society of Anesthesiologists 1968  
California Society of Anesthesiology 1968  
American Society for Pharmacology and Experimental Therapeutics, 1958  
American Society for Clinical Pharmacology and Therapeutics  
The New York Academy of Sciences  
Affiliate Member, California Primate Research Center, Davis CA  
American Medical Association  
California Medical Association  
American Society of Regional Anesthesia  
International College of Surgeons  
International Primatologic Society  
Sigma XI

## **HONORS & SPECIAL ASSIGNMENTS**

M.D. Degree received with honors ("Cum Laude") 1950  
 Book Chapter by invitation (Methods of Experimental Medicine, Professor A. Kovach, Editor) Budapest, 1957  
 Loyola Univ., Dept. of Pharmacology, Invited Lecturer, Chicago, 1959  
 Harvard University, Dept. of Pharmacology, Boston, Invited Lecturer, 1961  
 Review by Invitation (Prof. G. B. Koelle, Philadelphia) Pharmacology Reviews, 1961  
 NIMH Symposium on Tricyclic Antidepressants, Invited Lecturer, Washington, D.C. 1966  
 International Physiology Congress, Plenary Session, Netherlands, Invited Lecturer, 1962  
 Visiting Scientist, NIMH, St. Elizabeth Hospital, June-Sept. 1962  
 Review by Invitation (Prof. V. Erspamer, Florence) Handbook Exp. Pharmacology 1966  
 Review by Invitation (Prof. A. Burger, Charlottesville, VA) Drugs Affecting the peripheral and the central nervous system, 1966  
 Review by Invitation (Prof. J. Smithies, Edinburgh) International Review of Neurobiology 1966  
 Invited for Monograph (Prof. A. Karczmar, Chicago) Int. Encyclopedia of Pharmacology 1966  
 Symposium on Animal and Clinical Pharmacology Techniques in Drug Evaluation, Philadelphia, 1967, Invited Lecturer  
 Ist Congress of the Hungarian Pharmacology Society, 1971, Budapest, Invited Lecturer and Session Chairman  
 Department of Pharmacology, University of Budapest, Invited lecturer, 1971  
 Session Chairman FASEB Annual Meeting 1973  
 Annual Meeting of the Virginia Society of Anesthesiologists, Richmond, VA Invited Lecturer, April 1976  
 Groote Shur Hospital, Cape Town, S.A. Invited Lecturer, Feb. 1974  
 Visiting Senior Specialist, Department of Anesthesia, Stellenbosch University, Cape, South Africa, June-Sept. 1974  
 Department of Anesthesiology, University of Budapest, Invited Lecturer, 1977  
 World Congress of Pharmacology, Paris, Session Chairman, 1977  
 Department of Anesthesia, University of Groningen, The Netherlands, Visiting Professor, Sept. 1980  
 Review by Invitation (Prof. D. Kharkevich, Moscow) Handbook Exp. Pharmacology 1980  
 New Mexico Society of Nurse Anesthetists, Annual Meeting, Albuquerque, NM, Invited Lecturer, 1985  
 University of Nice, France, Department of Anesthesia, Visiting Professor, December 1994  
 International Hungarian Medical Academy 3<sup>rd</sup> Congress, July 1996, Pecs, Hungary, Invited lecturer  
 Department of Pharmacology and Medicinal Chemistry, Virginia Commonwealth University, Richmond, CA, September 1997, Invited lecturer  
 11<sup>th</sup> Asian-Australasian Congress of Anesthesiology, May 1998, Taipei Taiwan, Invited Lecturer.

International Hungarian Medical Academy 4<sup>th</sup> Congress, August 1998, Budapest, Hungary. Session Chair  
 University of Budapest, Faculty of Medicine, Three Departments of Anesthesiology. Visiting Professor/ Invited Lecturer March 2000  
 Medical Research Institute, Hungarian Academy of Sciences, March 2000, Budapest, Hungary, Invited Lecturer  
 47<sup>th</sup> Annual Meeting of the Japanese Society of Anesthesiologists, Tokyo, April 2000, Invited Lecturer  
 VIIth International Neuromuscular Meeting, June 21-24, 2001. Belfast UK. Invited Lecturer  
 Review by Invitation (Prof. W. Bowman. U. Strathclyde, Glasgow) for Pharmacology & Toxicology 2001.  
 Member (Foreign), Hungarian Academy of Sciences, 2005

### **PUBLICATIONS:**

Over 270 scientific papers and abstracts in Pharmacology (neuropharmacology, autonomic pharmacology and hormone research) and Anesthesiology including reviews, book chapters and a single authored book titled "Pharmacology of Antimuscarinic Agents", CRC Press, 1998.

Special fields of interest and expertise: Pharmacology of autonomic ganglia, muscarinic and serotonin receptors, neuromuscular junction, antidepressants and steroid anesthetics.

### **SELECTED RESEARCH ACCOMPLISHMENTS**

- 1999 -2005 Four U.S. Patents on New Neuromuscular Relaxants. Inventors: L.Gyermek, C.Lee and Y.M.Cho.
- 1999 Discovery of TAAC3, the fastest and shortest acting nondepolarizing Neuromuscular blocking agent.
- 1992- 94 Delineated the role of different structural modifications on the pharmacological spectrum of action of neuromuscular blocking bisquaternary ammonium derivatives of dicarboxylic acids.
- 1991 Described quaternary ammonium derivatives of tropacocaine with selective muscarinic blocking action affecting primarily peripheral cardiac M<sub>2</sub> receptors.
- 1986- After having synthesized and pharmacologically screened over 200 new dicarboxylic acid tropine ester derivatives he obtained new agents with faster and/or shorter acting profile than any of the previously known agents. G-1-64 has been evaluated in six animal species and it showed promise for human studies.
- 1986 Investigated and proposed the use of post tetanic double impulses as a monitoring

method for the quantitation of deep nondepolarizing neuromuscular block. This method improves predictability of subsequent pharmacologic reversal.

- 1982 Based on a comparative study on three different monkey species, found the rhesus macaque to be the best animal model for predicting duration of action in man of nondepolarizing neuromuscular blocking agents. This is an important aspect of research for new, short-acting neuromuscular blocking drugs
- 1977-80 Work on the clinical pharmacology of glycopyrrolate as an anticholinergic and of pyridostigmine as a reversing agent for neuromuscular block is widely recognized.
- 1977-78 As a result of a detailed clinical study (over 300 patients) conducted during "private practice" in anesthesiology, developed the "edrophonium-pyridostigmine" combination for an improved pharmacologic reversal of clinical neuromuscular block
- 1975 Published a detailed review on the subject of steroid anesthetics
- 1968 Based on in vitro experiments with metabolites of progesterone, proposed that endogenous pregnane type steroids may affect uterine motility in humans
- 1968 Based on his neuropharmacologic studies on cats and monkeys, proposed an alternate neurophysiologic mechanism of action with barbiturate and steroid anesthesia in the brain stem and of electrocortical arousal .1
- 1966 Published a definitive review (177 pages) on the chemical pharmacology of ganglionic stimulant and blocking agents
- 1963 Demonstrated that LSD, in addition to its anti serotonin action, has serotonin potentiating action in the autonomic nervous system suggesting a possibility for similar potentiation of central neurons driven by serotonin
- 1963 Offered the first evidence that muscarine acts on sympathetic ganglia at specific receptor sites
- 1962 Analyzed and elucidated the type of action of serotonin and some of its derivatives in autonomic ganglia
- 1961-64 Discovered two new classes of neurotropic serotonin antagonist agents
- 1960-66 First was to propose that in the mechanism of antidepressant action of tricyclic antidepressant a potentiation of serotonin may have an important role

- 1960 Discovered the significant potentiating action of tricyclic antidepressants in the peripheral effects of serotonin
- 1958 First described the stereochemical specificity of the action of muscarine and muscarone isomers
- 1957 Developed (in collaboration with K. Nádor) "Gastripon", a ganglionic blocking and parasympathetic blocking agent, marketed in several countries (U.S. Patent # 2, 833773/1958)
- 1956 Discovered the anti-serotonin action of chlorpromazine and other phenothiazines
- 1953 Discovered the local anesthetic action of certain quaternary ammonium derivatives of tropeines, an effect unknown previously for quaternary ammonium salts
- 1951-55 Developed the most potent ganglionic stimulant and blocking agents and some of the most potent neuromuscular blocking agents known at that time and all within the chemical class of tropeines
- 1951 Described the ganglionic blocking action of tropinesters

**SUMMARY OF PERSONAL DATA:**

Entered the U.S. in 1957; U.S. Citizen, 1962; Family Status: married, two children. European and U.S. Patents holder; Author of over 270 scientific articles, including reviews, book chapters and one textbook. Languages: English and Hungarian, working knowledge of German, French and Italian Hobbies: painting, (exhibitor and prize winner at art exhibits) music, photography, tennis, sport flying, travel (writer of travelogues).

Laszlo Gyermek  
May 28, 2015