

Bibliography 1949 - 2010

Laszlo Gyermek, M.D., Ph.D.

Research Papers

1. Issekutz B and Gyermek L: Die Wirkung Von Dihydroergotamin and Dihydroergocornin auf den Gaswechsel. Arch Int Pharmacodyn; 83:174-196, 1949 (In German)
2. Gyermek L: Die Wirkung des Aktedrons (Phenylisopropylamine) auf den Gaswechsel an nebennierenlosen und mit Thyroxin behandelten Tieren. Arch F Exp Path U Pharmakol; 209:27-34, 1950 (In German)
3. Gyermek L: The antihistamine action of histidine. Kiserletes Orvostud. 1(3):1-7, 1950 (In Hungarian)
4. Gyermek L: Die Wirkung des Histamins auf den Gasstoffwechsel und die Körpertemperatur. Arch Exp Path U Pharmakol; 209:456-464, 1950 (In German)
5. Gyermek L, Sztanyik L, and Lang E: The adrenolytic and sympathicolytic efficiency of Ergot alkaloids. Acta Physiol Acad Sci Hung; 1:63-74, 1950

5/a Fabinyi- Szebehely M, Gyermek L, Szebehely J, Effect of histamine desensitization upon thyroxine sensitivity. Nature. 165(4187):155. 1950

6. Gyermek L, Sztanyik L, Lang E, and Pataky Gy: Blood pressure experiments with Carbachol. Acta Physiol Acad Sci Hung; 2:33-40, 1951
7. Gyermek L and Sztanyik L: The ganglionic blocking activity of tropeines. Acta Physiol Acad Sci Hung; 2: 41-47, 1951
8. Gyermek L: The ganglion blocking action of the tropine and tropinium. Acta Physiol Acad Sci Hung; 2:175-177, 1951

9. Physiol Acad. Sci. Hung; 2:1718-199, 1951 (In German)
10. Gyermek L and Fekete Gy: Influence of sympathetic blocking agents on the adrenaline -induced serum K and blood sugar alterations. Kiserletes Orvostud; 3:1-6, 1951 (In Hungarian)
11. Nador L and Gyermek L: Synthesis of monoquaternary tropeines with ganglionic blocking action. Magyar Kemiai Folyoirat; 57:349-350, 1951 (In Hungarian)
12. Fekete Gy, Gyermek L, and Sztanyik L: Studies on the correlations of serum K and blood sugar. Kiserletes Orvostud; 3:338-343, 1951 (In Hungarian)
13. Gyermek L: Studies on cholinergic blocking substances I. Sites of action of compounds of the atropine group. Acta Physiol Acad Sci Hung; 2:511-517, 1951
14. Gyermek L and Nador K: Studies on cholinergic blocking substances II. Correlations of the antimuscarine, antinicotine and curare-like effects of mono and bisquaternary tropeines. Acta Physiol Acad Sci Hung; 3:283-293, 1952
15. Gyermek L: Methode zur biologischen Bestimmung des adrenokortikotropen hormons. Experientia; 8:438-440, 1952 (In German)
16. Gyermek L: Methode zur Untersuchung der Wirkung Lokalanaesthetischer Mittel. Arch Int Pharmacodyn; 91:366-372, 1952 (In German)
17. Gyermek L: The role of the halogen groups in the pharmacological effect of dibenzyl- beta-chlorethylamine (Dibenamine) and dibenzyl-beta-bromoethylamine. Acta Physiol Acad Sci Hung; 3:165-175, 1952
18. Gyermek L, Nador K, and Kovatsits M: New adrenaline blocking compounds. Acta Physiol Acad Sci Hung; 3:175-182, 1952
19. Gyermek L and Sztanyik L: The effect of histamine on the adrenals. Kiserletes Orvostud; 4:245, 1952 (In Hungarian)
20. Nador L and Gyermek L: Synthesis of ganglionic blocking compounds I. Preparation of some simple quaternary ammonium derivatives. Magy Tud Akad Kem Oszt Kozlemenyei; 2(3):287-296, 1952 (In Hungarian)
21. Nador L, Kovatsits M, and Gyermek L: Synthesis of haloethylamine compounds with adrenolytic action. Magy Tud Akad Kemiai Oszt Kozlemenyei; 2(3):287-296, 1952 (In Hungarian)
22. Nador L, Kovatsits M, and Gyermek L: Synthesis of compounds of beta-haloethylamine type with adrenaline blocking action. Acta Chimica Hung;

2:153-161, 1952

23. Gyermek L: Method for the essay of local anesthetic agents. Kiserletes Orvostud;4:401-406, 1952
24. Nador K and Gyermek L: Synthesis of compounds with ganglion blocking effects I. Synthesis of some simple quaternary ammonium derivatives. Acta Chimica Hung; 2:95,1952
25. Gyermek L and Csak Zs: Method biologicseskogo opredelenia adrenokortikotropnogo gormona. (Method for biological determination of ACTH). (In Russian) Acta Physiol Acad Sci Hung; 3:563-570, 1952
26. Nador K and Gyermek L: Attempts to find new compounds with curare-like effects III. Quaternary derivatives of dicarboxylic acid tropine esters. Acta Chimica Hung; 2: 369, 1952
27. Nador K and Gyermek L: Experiments for the synthesis of curare-like compounds. Magyar Tud Akad Kemiai Oszt Kozl; 3:1-6, 1953 (In Hungarian)
28. Gyermek L: Quaternary derivatives of benzoyl tropine and benzoyl pseudotropine with anticholinergic and local anesthetic properties. Nature; 171:788, 1953
29. Gyermek L and Nador K: Studies on cholinergic blocking substances III. Neuromuscular blocking tropeines. Acta Physiol Acad Sci Hung; 4:159-174, 1953
30. Nador K and Gyermek L: Synthesis of ganglionic blocking agents II. Monoquaternary tropeines. Magy Tud Akad Kemiai Tud Oszt Kozl; 3:233, 1953 (In Hungarian)
31. Nador K and Gyermek L: Synthesis of compounds with ganglion blocking effects II. Monoquaternary tropeines. Acta Chimica Hung; 3:323-337, 1953
32. Gyermek L: Studies on cholinergic blocking substances IV. Correlations between structure and effect of quaternary derivatives of benzoyl tropine and benzoyl pseudotropine compounds. Acta Physiol Acad Sci Hung; 4:333-340, 1953
33. Gyermek L and Nador K: Studies on cholinergic blocking substances V. The pharmacology of monoquaternary tropeines acting on vegetative ganglia. Acta Physiol Acad Sci Hung; 4:341-354, 1953
34. Gyermek L: Beitrage zur Pharmakologie von Tryptamin, Tyramin und Phenylaethylamin. Acta Physiol Acad Sci Hung; 4:323, 1953 (In German)

35. Gyermek L: The pharmacology of T-52 an orally effective ganglion blocking compound. Orvosi Hetilap; 381-382, 1953 (In Hungarian)
36. Gyermek L: A rapid method for the biological determination of adrenocorticotropic hormone. Orvosi Hetilap; 95:100-103, 1954 (In Hungarian)
37. Gyermek L: Studies on cholinergic blocking substances VI. The pharmacology of hexamethonium and "Pendiomid" type ganglionic blocking compounds. Acta Physiol Acad Sci Hung; 5:163-179, 1954
38. Beke D, Lempert K, and Gyermek L: New local anesthetic compounds. Magy Kemiai mFolyoirat; 60:147, 1954 (In Hungarian)
39. Fekete Gy and Gyermek L: The examination of pyrogenic activity of preparations in oil. Acta Pharmaceut Hung; 1:53-55, 1954 (In Hungarian)
40. Gyermek L: Studies on cholinergic blocking compounds VII. Correlations between anticholinergic and cholinesterase blocking effects. Acta Physiol Acad Sci Hung; 8:43-48, 1954
41. Gyermek L: Studies on cholinergic blocking compounds VIII. Pharmacological actions of certain polymethylene bis - and azapentylene-bis-pyrrolidine and piperidinederivatives. Acta Physiol Acad Sci Hung; 8:49-60, 1954
42. Gyermek L and Nador K: Pharmacology of ganglionic stimulant agents. Magy, Tud, Akad Orvosi Oszt Kozl; 5:157, 1954 (In Hungarian)
43. Gyermek L: Studies with substances acting on the autonomic nervous system. (Dissertation for the degree : Candidate of the Medical Sciences, Hungarian Academy of Science). Budapest 1954 (In Hungarian)
44. Varga L, Horvath T, Nogradi T, and Gyermek l: Ueber die Synthese und biologischer aktivitat von einigen diphenyl und indanderiveten. Acta Chimica Hung; 5:111-119, 1954 (In German)
45. Beke D, Lempert K, and Gyermek L: Neue lokalanaestetisch wirksame Verbindungen I. Acta Chimica Hung; 5:143-149, 1954 (In German)
46. Beke D, Lempert K, and Gyermek L: Neue lokalanaestetisch wirksame Verbindungen II. Acta Chimica Hung; 5:151-158, 1954 (In German)
47. Gyermek L and Nador K: Pharmakologie von neuen, die vegetative ganglien reizenden verbindungen. Die Pharmazie; 10:238-244, 1955 (In German)

48. Gyermek L and Fekete Gy: A simple method for the determination of glycogen in liver. *Nature*; 175:386, 1955
49. Fekete Gy and Gyermek L: Ueber die vasopressorische und anti-diuretische Wirkung von ACTH preparaten. *Die Pharmazie*; 10:420-422, 1955 (In German)
50. Gyermek L and Fekete Gy: On the vasopressor and antidiuretic activities of synthetic oxytocin. *Experientia*; 11:238, 1955
51. Gyermek L: Chlorpromazine, a serotonin antagonist? Letter. *Lancet*; II:724, 1955
52. Fekete Gy and Gyermek L: A method for the determination of Dextran in tissues. *Kiserletes Orvostud*; 1:84, 1955 (In Hungarian)
53. Fekete Gy, Gyermek L, and Lazar I: Studies on the storage of dextrane. *Acta Physiol Acad Sci Hung*; 8:147-153, 1955
54. Gyermek L and Fekete Gy: The vasopressor and antidiuretic action of ACTH preparations. *Acta Pharmaceut Hung*; 1:26-30, 1955 (In Hungarian)
55. Beke D, Lempert K, and Gyermek L: New local anesthetic compounds III. *Magy Kem Folyoirat*; 61:190-191, 1955 (In Hungarian)
56. Lempert K and Gyermek L: New local anesthetic compounds IV. *Magy Kem Folyoirat*; 61:193-195, 1955 (In Hungarian)
57. Gyermek L and Fekete Gy: Studies with a simple method of the liver glycogen estimation. *Acta Physiol Acad Sci Hung*; 8:259-267, 1955
58. Fekete Gy and Gyermek L: A simple method for the biological determination of ACTH retard preparation. *Acta Pharmaceut Hung*; 2:74-75, 1955 (In Hungarian)
59. Gyermek L, Beke D, and Lempert K: New local anesthetic compounds II. *Acta Pharmaceut Hung*; 3:114-120, 1955
60. Szendei A, Komaromy J, Erdelyi G, and Gyermek L: Effect of thiocyanogen and of other hypotensive agents on hepatic amino acid oxydase. *Magy Belorvosi Arch*; 8:55-57, 1955 (In Hungarian)
61. Gyermek L, Lazar GT, and Csak Zs: The antiserotonin action of chlorpromazine and some other phenothiazine derivatives. *Arch Int Pharmacodyn*; 107:62-74, 1956

62. Glaz E, Gyermek L, and Nogradi T: The adrenolytic activity of tryptamine and related compounds on isolated organs. Arch Internat Pharmacodyn; 108:420-430, 1956
63. Fekete Gy, Gyermek L, and Lazar I: Untersuchungen an natürlichen und synthetischen Hypophysishinterlappen hormonen. Acta Physiol Acad Sci Hung; 9(60), 1956 (In German)
64. Glaz E, Gyermek L, and Nogradi T: The adrenolytic activity of tryptamine related compounds on isolated organs. Kiserletes Orvostud; 9:380-387, 1957 (In Hungarian)
65. Gyermek L, Lazar G, and Anheuer E: Untersuchungen über die Antisertonin wirkung von Chlorpromazin und einigen anderen Phenothiazin-Derivaten. Acta Physiol Acad Sci Hung; 11(101), 1957 (In German)
66. Veghelyi P, Gyermek L, and Eisert A: Abwehr der Kammerfibrillation I. Acta Physiol Acad Sci Hung; 12:283-291, 1957 (In German)
67. Nador K and Gyermek L: The chemistry and pharmacology of "Gastropin". Orvosi Hetilap; 1504-1508, 1958 (In Hungarian)
68. Gyermek L and Nador K: Pharmacology of p-biphenylmethyl-dl-tropyl-tropinium bromide. Arch Int Pharmacodyn; 113:1-14, 1957
69. Nador K and Gyermek L: 4-Diphenyl-methyl-dl-tropyl-tropiniumbromid, ein neues Gangliochoholithicum. Arzneimittelforschung; 8:336-340, 1958 (In German)
70. Gyermek L and Unna KR: Relation of structure of synthetic muscarines and muscarones to their pharmacological action. Proc Soc Exp Biol Med; 98:882-885, 1958
71. Gyermek L: Differences between atropine-like and ganglionic blocking agents in their action on the mouse pupil. J Pharmacol Exp Therap; 127:313-317, 1959
72. Gyermek L and Unna KR: Spectrum of action of muscarone and its derivatives. J Pharmacol Exp Therap; 128:30-36, 1960
73. Gyermek L and Unna KR: Pharmacological comparison of muscarine and muscarone with their dehydro derivatives. J Pharmacol Exp Therap; 128:37-40, 1960
74. Soyka LF and Gyermek L: Cholinergic blockade as related to chain length of

monoquaternary derivatives of atropine and benzoyl tropine. J Pharm Med Chem; 2:361-373, 1960

75. Herr E and Gyermek L: Action of cholinergic stimulants on the inferior mesenteric ganglion of the cat. J Pharm Exp Therap; 129:338-342, 1960

76. Gyermek L and Possemato C: Potentiation of 5-hydroxy-tryptamine by imipramine. Medicina Exper; 3:225-229, 1960

77. Gyermek L: Cholinergic stimulation and blockade on the urinary bladder. Am J Physiol; 201:325-328, 1961

78. Gyermek L: 5-Hydroxy-3-indoleacetamidine, a new type of blocking agent against 5- hydroxytryptamine. Nature; 192:465, 1961

79. Gyermek L and Bindler E: Blockade of the ganglionic stimulant action of 5-hydroxytryptamine. J Pharm Exp Therap; 135:344-368, 1962

80. Gyermek L: Action of 5-hydroxytryptamine on the urinary bladder of the dog. Arch Int Pharmacodyn; 137:137-144, 1962

81. Gyermek L and Bindler E: Action of indole alkylamines and amidines on the inferior mesenteric ganglion of the cat. J Pharm Exp Therap; 138:159-164, 1962

82. Sigg EB, Soffer L, and Gyermek L: Influence of imipramine and related psychoactive agents on the effect of 5-hydroxy-tryptamine and catecholamiens on the cat nictitating membrane. J Pharm Exp Therap; 142:14-20, 1963

83. Gyermek L, Sigg EB, and Bindler E: Ganglionic stimulant action of muscarine. Am J Physiol; 204:69-70, 1963

84. Gyermek L and Sumi T: Potentiating actions of indolealkylamiens and lysergic acid diethylamide on reflexes elicited by 5-hydroxytryptamine. Proc Soc Biol Med; 114:436-439, 1963

85. Gyermek L: A new class of 5-hydroxytryptamine antagonists. J Med Chem; 7:280-284, 1964

86. Gyermek L: Action of guanidine derivatives on autonomic ganglia. Arch Int Pharmacodyn; 150:570-581, 1964

87. Sigg EB, Gyermek L, Hill RT, and Yen HCY: Neuropharmacology of some harmane derivatives. Arch Int Pharmacody; 149:164-180, 1964

88. Sigg EB, Gyermek L, Hill RT: Antagonism to reserpine induced depression by imipramine, related psychoactive drugs and some autonomic agents.

Psychopharmacol; 7:144-149, 1965

89. Newman J and Gyermek L: A liver glycogen assay of antiinflammatory steroids on chicks and embryos. Proc Soc Exp Biol Med; 121:386-390, 1966
90. Gyermek L, Genther G, and Fleming N: Some effects of progesterone and related steroids on the central nervous system. Int J Neuropharmacol; 6:191-198, 1967
91. Gyermek L: Pregnanolone, a highly potent, naturally occurring hypnotic anesthetic agent. Proc Soc Exp Biol Med; 125:1058-1062, 1967
92. Gyermek L, Iriarte J, and Crabbe P: Structure-activity relationship of some steroidal hypnotic agents. J Med Chem; 11:117-125, 1968
93. Raisinghani KH, Dorfman RI, Forchiell E, Gyermek L, and Genther G: Uptake of intravenously administered progesterone, pregnanediol and pregnanolone by the rat brain. Acta Endocrinol; 57:395-404, 1968
94. Gyermek L: Anesthesia and descending influences on the brain stem reticular formation. Arch Int Pharmacodyn; 175:28-40, 1968
95. Gyermek L: Effects of pregnanolone and progesterone. Lancet; 2:1195, 1968
96. Soyka LF, Gyermek L, and Campbell P: A study of the mechanism responsible for the sensitivity of newborn rats to pregnanolone. J Pharmacol Exp Therap; 175:276-282, 1970
97. Soyka LF, Gyermek L, Campbell P, and Long RL: Distribution and hepatic metabolism of pregnanolone in the rat. Biochem Pharmacol; 21:657-671, 1972
- 98 .Gyermek L: Benzodiazepines for supplementing steroid anesthesia. Life Sci; 14:1433-1436, 1974
- 99 . Gyermek L: Increased toxicity of althesin in newborn animals. Brit J Anesthesiol; 46:704, 1974 .
100. Gyermek L: Clinical studies on the reversal of the neuromuscular blockade produced by pancuronium bromide. The effects of glycopyrrolate and pyridostigmine. Curr Therap Res; 18:377-386, 1975
- 101.Gyermek L: Clinical effects of diazepam prior and during anesthesia. Curr Therap Res; 17:175-188, 1975
- 102.Gyermek L: Clinical pharmacology of the reversal of the neuromuscular block. Internat J. Clin Pharmacol; 15:356-362, 1977

- 103.Gyermek L: The glycopyrrolate-pyridostigmine combination. Anesthesiol Rev; 19-22, March 1978
- 104.Gyermek L: Lumbar epidural analgesia in the baboon. Regional Anesth; 3:3-6, 1978
105. Gyermek L and Wymore M: Old and new non-depolarizing muscle relaxants: A reassessment on subhuman primates. Arch Int Pharmacodyn Ther; 257:114-129, 1982
- 106.Gyermek L: Proposed use of different post-tetanic stimuli for assessment of profound surgical muscle relaxation. J Clin Monitoring; 2:211-213, 1986
- 107.Gyermek L: Vapor anesthetics adversely influence edrophonium reversal. Int J Clin Pharmacol; 26: 75- 78, 1987
- 108.Gyermek L and Henderson G: Low ventilatory and anesthesia drug requirement during coronary revascularization. J Cardiothoracic Anesth; 2:70-73, 1988
- 109.Gyermek L: Increased susceptibility of nondepolarizing relaxants after poliomyelitis. J.Clin Pharmacol; 30:170-173, 1990
- 110.Gyermek L: Clinical evaluation of the Datex NMT 221 neuromuscular transmission monitor for recording post-tetanic responses. J Clin Anesth; 2:152-157, 1990
- 111. Gyermek L** and Berman N: Train of four fade during clinical nondepolarizing neuromuscular block. Int J Clin Pharmacol; 30:122-127, 1992
- 112.Gyermek L** and Henderson G: Electromyographic monitoring of profound surgical muscle relaxation during cardiac anesthesia. J Clin Monitoring; 8:131-135, 1992
- 113.Gyermek L**: Potency versus onset of neuromuscular blocking agents. (Letter) Anesthesiology; 78:795- 796, 1993
- 114.Gyermek L** and Cantley E: Comparison of the onset spontaneous recovery and train of four fade of the clinical neuromuscular block produced by pancuronium and pipecuronium. Clin Pharmacol Therap; 32:600-606, 1994
- 115.Gyermek L**, Cantley E, and Lee C: Clinical comparison of the reversal of neuromuscular block produced by pancuronium and pipecuronium. Brit J Anesthesiol; 74:410-414, 1995
- 116.Gyermek L**: Is d-tubocurarine an antiemetic. (Letter) Acta Anaesthesiol Sinica; 34:53,1996
- 117.Gyermek L**: New local anesthetic agents (Letter) Anesthesiology 85: 226, 1996.

118.Dukat M, Abdel-Rahman Aa, Ismaiel AM, Inhger S, Teitler M, **Gyermek L**, and Glennon RA: Structure-activity relationships for the binding of arylpiperazines and arylbiguanides at 5-HT₃ serotonin receptors. J Med Chem; 39:4017-4026, 1996.

119.Gyermek L: Simple and cost effective methods for measuring neuromuscular block with special emphasis on train of four fade. J Clin Monitoring; 13:11-17, 1997

120.Gyermek L: Can the "old" vapor monitors measure new vapor anesthetics. (Letter) J Clin Anesth; 9:171-172, 1997

121.Hellmich B and **Gyermek L:** Is N(g)- Nitroarginine methylester (L-NAME) an antimuscarinic? Fundam Clin Pharmacol; 11:305-314 1997

122.Zhang C, **Gyermek L**, and Trudell M: Synthesis of optically pure epibatidine analogs:

(1R, 2R, 5S)-2(2-Chloro-5-pyridinyl)-8-azabicyclo [3.2.1] octane and (1R, 2S, 5S)-2(2-Chloro-5-pyridinyl)-8-aza bicyclo [3.2.1] octane from cocaine. Tetrahedron Letts; 38:5619-5622, 1997

123.Gyermek L, Cho, Y.M., Nguyen, N and Lee C: Neuromuscular blocking N₁N¹polymethylene bistroponium, bis 3-hydroxytroponium and bis-3-oxotroponium compounds. Life Sci 63:303-309, 1998.

124. Gyermek L, Nguyen N and Lee, C: Pharmacology of G-1-64, a new nondepolarizing neuromuscular blocking agent with rapid onset and short duration of action. Acta Anaesth Scand 43: 651-657, 1999.

125 Gyermek L: Muscle relaxants and 5-HT₃ receptors (Letter) Anesth. Analg. 2000.

126. Nishiyama T, **Gyermek L**, Lee C, Kawasaki-Yatsugi S, Yamaguchi T: The spinal antinociceptive effect of a novel competitive AMPA receptor antagonist, YM 872, on thermal or formaline-induced pain in rats. Anest. Analg; 89: 143-147, 1999

127. Nishiyama T, **Gyermek L**, Lee C, Kawasaki-Yatsugi S, and Yamaguchi T: Analgesic interaction between intrathecal midazolam and glutamate receptor antagonists on thermal induced pain in rats Anesthesiology, 91: 531-537, 1999

128. Nishiyama T, **Gyermek L**, Lee C, Kawakashi-Yatsugi S, Yamagutsi T: The systemically administered competitive AMPA receptor antagonist, YM872, has analgesic effects on thermal or formalin-induced pain in rats. Anesth Analg. 1999 Dec; 89: 1534-7.

29. Zhang C, Di Maggio, SC, Lomenzo SA, **Gyermek,L**, Ji A, Nishiyama T, and Trudell,M.: Synthesis and biological activity of novel tropane analogues of epibatidine. Med. Chem. Res. In evaluation???????????

130. Nishiyama T, **Gyermek L**, Lee C, Kawakashi- Yatsugi S. and Yamaguchi T: Synergistic analgesic effects of intrathecal midazolam and NMDA or AMPA receptor antagonists in rats. Can J. Anaesth. 458: 288-294, 2001.

131. Nishiyama T, **Gyermek L**, Lee C, Kawasaki- Yatsugi S ,Yamaguchi T and Hanaoka K: The analgesic interaction between intrathecal clonidine and glutamate receptor antagonists on thermal and formalin – induced pain. Anesth. Analg. 92: 725-732, 2001. -

132. Gyermek L, Lee C, Cho YM, Nguyen N, and Tsai SK: Ultrashort acting euromuscularblocking agents, 1. Di- and trisubstituted benzyl bisquaternary ammonium derivatives of bis-tropane-3-ol diesters. Med. Chem. Res. 11: 316-336, 2002.

133. Gyermek L, Lee C, Cho YM, Nguyen N. and Tsai, SK: Pharmacology of TAAC3 a new nondepolarizing neuromuscular blocking agent with rapid onset and ultrashort duration of action. Anesth. Analg. 94: 879-88 2002.

134.. Nishiyama T, **Gyermek L**, Trudell,M and Hanaoka K.: Spinally mediated analgesia and receptor. binding affinity of epibatidine analogs. Eur. J. Pharmacol. 470: 27-31. 2003

135. Gyermek L, Lee C, Cho YM, and Nguyen, N: Quaternary derivatives of granatananol diesters; potent, ultrashort acting nondepolarizing muscle relaxants. Life Sci/ 79: 559-569. 2006.

Reviews

1.Gyermek L: Drugs acting upon the vegetative ganglia. Ovosi Hetilap; 25:808-813, 1951 (In Hungarian)

2.Gyermek L and Nador K: Tropeines with parasympatholytic, ganglion blocking and curare-like properties. Kiserletes Orvostud; 4:242-249, 1952 (In Hungarian)

3.Gyermek L: Drugs acting upon the vegetative ganglia. Therapia Hung; 1:53-68, 1954 (In English, German, and French)

4.Gyermek L and Nador K: The pharmacology of tropane compounds in relation to their steric structure. J Pharm Pharmacol; 9:209-229, 1957

5.Gyermek L: Toxicity Studies, Chapter VII/12, pp 854-939, Vol III in: Investigational Methods of Experimental Medicine. Kovach A, (Ed) Akad Kiado Publ Budapest, 1957 (In Hungarian)

- 6.Gyermek L: How drugs act on autonomic ganglia. Modern Hospital; 92:122-127, 1959
- 7.Gyermek L: Hydroxytryptamine antagonists. Pharmacol Rev; 13:399-439, 1961
- 8.Gyermek L: Antagonists of 5-hydroxytryptamine. Proc 22nd Internat Physiol Cong Leiden, 1962, Excerpta Med Intern Cong Series 47, 1(1):29-36, 1962
- 9.Gyermek L: Drugs which antagonize 5-hydroxytryptamine and related indolealkylamines. Handbuch der Exp Pharmakol Vol XIX Chapter 10, 471-528, Erspamer V (Ed), Springer, Berlin 1966
- 10.Gyermek L: Ganglionic stimulant and depressant agents in: Chemical Constitution and Pharmacodynamic Action, Vol I, Chapter 4, pp 149-326, A Burger (Ed), 1966, M Dekker publ NY
- 11.Gyermek L: The pharmacology of imipramine and related antidepressants. Int Rev Neurobiol; 9:95-173, 1966
- 12.Gyermek L: Effects of imipramine-like anti-depressant agents on the autonomic nervous system. Workshop Series, Pharmacology Unit, NIMH, NIH, No. 1, pp. 41-62, 1966
- 13.Gyermek L: Techniques for studying pressor amines in the nervous system. In Animal and Clinical Pharmacologic Techniques in Drug Evaluation. Siegler P and Moyer JH (Ed) Year Book Publ, 267-290, 1967
- 14.Gyermek L: Clinical pharmacologic aspects of newer analgesics in anesthesiology. Abstr 1st Congress, Hungarian Pharmacol Soc; pp 143-158, Budapest, 1971
- 15.Gyermek L and Soyka LF: Steroid anesthetics. Anesthesiology; 42:331-334, 1975
- 16.Gyermek L: Present status on muscle relaxants and their reversal of actions. Western J Med; 125:307, 1976
- 17.Gyermek L: Methods for the examination of ganglion blocking activity. Chapter 3, Hdb Exp Pharmacology, Vol 53, pp. 63-121, Kharkevich DA, Ed, Springer, Berlin, 1980
- 18.Gyermek L:** Neuromuscular blocking tropinyl esters in: Symposium on present and future neuromuscular blocking agents. 10th World Congress of Anesthesiology. The Hague, June 1992
- 19.Gyermek L:** 5-HT₃ receptors, pharmacologic and therapeutic aspects. J Clin Pharmacol; 35:845-855, 1995
- 20.Gyermek L:** Pharmacology of Serotonin as related to anesthesia. J Clin Anesth;

8:402-425, 1996

21 Gyermek L: When and how should muscle relaxants be reversed? Symposium Review Proceedings 10th Asian Australasian Congress of Anesthesiologists. Taipei, R.O.C., May 10-14, 1998.

22.Gyermek L: Serotonin, champion of receptor diversity. Review lecture. Proceedings of the 47th annual meeting of the Japanese Society of Anesthesiology. April 5-8, 2000, Tokyo, Japan.

23. Gyermek L: History of the development of neuromuscular blocking tropines. Proceedings of the VIIth International Neuromuscular Meeting. June 21-24, 2001.Belfast, U.K.

24.Gyermek L: Structure-activity relationships among derivatives of dicarboxylic acid esters of tropine. Pharmacology and Therapeutics 96: 1-21, 2002.

25 Gyermek L: Development of Ultrashort acting muscle relaxant agents. History, research technologies and challenges. Medicinal Research Reviews. 25: 610-654. 2005

26. Gyermek L and Lee C: The development of ultrashort acting neuromuscular relaxant tropane derivatives. Journal of Critical Care 24: 58-65. 2009

Books:

1. **Gyermek L:** Pharmacology of Antimuscarinic agents. CRC Press Publ. Boca Raton FL, 1998. 501 pp.

Autobiography:

1) Gyermek L: Biographical Wanderings pp 229-234 in: Reflections on twentieth-century psychopharmacology (Ban T.A , Healy D and Shorter E. Eds) Animula Publ. Budapest 2004

Abstracts

1. Issekutz B and Gyermek L: Action of the hydrated ergot alkaloids on basal metabolism. Abstr Hung Soc Physiol, 1948, Pecs (In Hungarian)

2.Gyermek L: The antihistamine action of histidine. Abstr. Hung Soc Physiol, 1949, Budapest (In Hungarian)

3.Sztanyik L, Lang E, and Gyermek L: The ganglionic blocking action of tropeines. Abstr Hung Soc Physiol, 1950, Szeged (In Hungarian)

4.Gyermek L and Pataky Gy: The action of histamine on the basal metabolism in

- adrenolectomized and in thyroxine treated animals. *Abstr Hung Soc Physiol*, 1950, Szeged (In Hungarian)
- 5.Gyermek L, Pataky G, and Sztanyik L: Untersuchungen bezuglich der adrenaline-mobilisierenden Wirkung des Histamins. *Acta Physiol Acad Sci Hung*, 1, (Suppl) 41, 1950 (In German)
- 6.Gyermek L and Lazar G: Erfahrungen mit der biologischen Wertmessung des Adrenocorticotrophormons. *Acta Physiol Acad Sci Hung*; 4, (Suppl) 60, 1953 (In German)
- 7.Gyermek L, Kasztreiner E, and Nádor K: Pharmakologie auf die vegetativen ganglien wirksamen neuen Verbindunge. *Acta Physiol Acad Sci Hung*; 5, (Suppl) 41, 1953 (In German)
- 8.Nádor K and Gyermek L: Parasympathikuslahmende Quaternare Ammonium-derivate ohne Tropangerust. *Acta Physiol Acad Sci Hung*; 6, (Suppl) 113, 1954 (In German)
- 9.Gyermek L, Fekete Gy, and Lazar I: Beitrage zur Frage der Inaktivierung verschiedener ACTH preparate. *Acta Physiol Acad Sci Hung*; 6, (Suppl) 113, 1954 (In German)
- 10.Fekete Gy, Lazar I, and Gyermek L: Das Schicksal verschiedener Dextranarten in Organismus. *Acta Physiol Acad Sci Hung*; 6 (Suppl) 114, 1954 (In German)
- 11.Szendei A, Komaromi J, Erdelyi G, and Gyermek L: Wirkung des Rhodans auf die Aminooxydase-Aktivitat der Rattenleber. *Acta Physiol Acad Sci Hung*; 6, (Suppl) 100, 1954 (In German)
- 12.Fekete G, Gyermek L, and Lazar J: Untersuchungen an natürlichen und synthetische Hypophysenhinterlappen hormonen. *Acta Physiol Acad Sci Hung*; 9, (Suppl) 60, 1956 (In German)
- 13.Gyermek L, Lazar G, Csak Zs, and Csizmadia Zs: A method for the determination of ACTH. (Movie presentation) *Abstr 20th Internat Congress of Physiology*, Bruxelles, 1956
- 14.Gyermek L, Lazar T, and Anheuer E: Untersuchungen über die Anti-serotoninwirkung von Chlorpromazin und einigen anderen Phenothiazin Derivaten. *Acta Physiol Acad Sci Hung*; 11, (Suppl) 101-102, 1957 (In German)
- 15.Gyermek L: Differentiation of the effects of atropine like and ganglionic blocking agents of mouse pupil. *J Pharm Exp Ther*; 122:313, 1958
- 16.Gyermek L and Unna KR: Relations of structure of synthetic muscarines and muscarones to their pharmacological action. *Abst Meeting of Am Pharmacol Society*, Ann Arbor, Mich, p. 16, 1958

- 17.Soyka LF, Chandrasekhar GR, and Gyermek L: Anticholingeric and anticholinesterase action of alkylquaternary derivatives of atropine. *Fed Proc*; 18:447, 1959
- 18.Gyermek L and Herr F: Action of muscarine on autonomic ganglia. *Fed Proc*; 18:339, 1959
- 19.Unna KR and Gyermek L: role of the structural factors in the action of muscarine and related compounds. *Fed Proc*; 18:454, 1959
- 20.Gyermek L: Cholinergic stimulation and blockade on the bladder of the dog. *The Physiologist*; 2:49, 1959
- 21.Chandrasekhar CR, Soyka LF, and Gyermek L: Sensitivity of different ganglia to ganglionic blockade. *The Physiologist*; 2:23, 1959
- 22.Gyermek L: The action of 5-hydroxytryptamine on the urinary bladder of the dog. *The Pharmacologist*; 2:89, 1960
- 23.Bindler E and Gyermek L: Influence of 5-HT antagonist on the ganglionic stimulant action of 5-HT and DMPP. *Fed Proc*; 20:319, 1961
- 24.Soffer L and Gyermek L: The interaction of imipramine, its derivatives and phenothiazines with 5-HT, epinephrine and norepinephrine. *Fed Proc*; 20:396, 1961
- 25.Sigg EG, Gyermek L, and Soffer L: Comparison of some pharmacological properties of imipramine, amitriptyline, promazine and their desmethyl derivatives. *The Pharmacologist*; 3:79, 1961
- 26.Gyermek L and Bindler E: Ganglionic stimulation and blockade produced by indole compounds. *The Pharmacologist*; 3:70, 1961
- 27.Gyermek L, Bindler E, and Soffer L: Ganglionic stimulation by N-methyl derivatives of 5-hydroxytryptamine. *Fed Proc*; 21:335, 1962
- 28.Gyermek L, Carpenter R, and Killam KF: Neuropharmacological comparison of steroid anesthetic (hydroxydione) with pentobarbital. *The Pharmacologist*; 5:255, 1963
- 29.Gyermek L, Genther G, and Fleming N: Some effects of progesterone and related pregnane derivatives on the central nervous system. *Abst XXII Internat Congress Physiol Sci*, p. 449, Tokyo, 1965
- 30.Gyermek L: Neuropharmacology of a potent, naturally occurring steroid hypnotic agent. *Fed Proc*; 26(2):324, 1967
- 31.Gyermek L and Soyka LF: Pharmacological aspects of progesterone metabolites.

Absts, 4th Internat Congress on Pharmacology, Basel, 1969

- 32.Soyka LF and Gyermek L: Inhibition of mixed function oxydations by pregnanolone: A possible basis for impaired drug metabolism during infancy. Proc Soc Ped Res; May 1-2, 1970
- 33.Soyka LF, Campbell P, and Gyermek L: Metabolism and distribution of pregnanolone, a pharmacologically active metabolite of progesterone. Clin Res; 18:125, 1970
- 34.Soyka LF, Gyermek L, and Campbell P: Mechanism responsible for the sensitivity of newborn rats to pregnanolone. Proc Soc Ped Res; May 1-2, 1970
- 35.Gyermek L, Campbell P, and Soyka LF: Alteration in brain permeability and receptor sensitivity to pregnanolone during maturation. Abstr VIIth Congress Coll Internat Neuro-psychopharmacol Prague, p 181, 1970
- 36.Soyka LF, Gyermek L, and Campbell P: Distribution and metabolism of pregnanolone in the rat. The Pharmacologist; 12:255, 1970
- 37.Gyermek L: The clinical pharmacology of tropeines related to anesthesia. Abstr, Annual Meeting of the South African Society of Anaesthetists, 1974
- 38.Gyermek L: Clinical pharmacology of the reversal of neuromuscular block. J Clin Pharmacol; 14:232, 1976
- 39.Gyermek L: Clinical Pharmacology of the reversal of neuromuscular block. Abstr VIIth Internat Symposium on Clinical Pharmacology Univ of Pavia, Italy, Sept 30-Oct 3, 1976
- 40.Gyermek L: Non-depolarizing muscle relaxants, clinical quantitation of their potentiation by enflurane. Abstrs VIIth World Congress of Anesthesiology, Hamburg, pp 538, September, 1980
- 41.Gyermek L: Surgical muscle relaxation, an update. Abstr VIIth Saudi Medical Meeting, Dammam, May 3-6, 1982
- 42.Gyermek L: Clinical assessment of the potentiation of surgical muscle relaxants by enflurane and fluothane. Abstr VIIIth Saudi Medical Meeting, Riyadh, October 30-November 2, 1983
- 43.Gyermek L: Effects of enflurane on the reversal of surgical muscle relaxation. J Clin Pharm; 37:200, 1985
- 44.Gyermek L: Posttetanic responses in the evaluation of profound nondepolarizing neuromuscular block. Anesthesiology 67. 1987

- 45.Gyermek L and Henderson G: Effect of pancuronium and vecuronium during open heart anesthesia. *J Clin Pharmacol Therap*; 41:215, 1987
- 46.Gyermek L: Sensitivity to surgical muscle relaxants of children with history of poliomyelitis. *Inten Care Med*; 13:6, 1987
- 47.Gyermek L, Kwan WF, Nguyen N, and Lee C: Evaluation of the edrophonium-pyridostigmine mixture in rabbits. *Abstr A0577*, 9th world Congress of Anesth, Washington, D.C., May, 1988
- 48.Gyermek L: Reversal of neuromuscular block. *J Clin Pharm Therap*; 43:177, 1988
- 49.Kwan WF, Gyermek L, Nguyen N, Lee C, and Katz RL: Biphasic agonist-antagonist effect of edrophonium. *Faseb J*; 2(4):A2881, 1988
- 50.Gyermek L: Postetanic EMG responses in the evaluation of surgical neuromuscular block. *The Pharmacologist*; A-241, 1989
- 51.Gyermek L: "Train of four", Verminderung ("Fade") Wahrend des Beginns und der Abklingphase von Klinischem neuromuskularen Blockade. *Anaesthesist*; 38 (Suppl) 671, 1989
- 52.Gyermek L, Nguyen N, and Lee C: Study of neuromuscular block in the ferret. *Anesthesiol*; 71:A807, 1989
- 53.Gyermek L, Nguyen N, and Lee C: Comparison of cardiac vagal and neuromuscular block following non-depolarizing muscle relaxants in the rat, rabbit, and ferret. *FASEB J*; 4:A4932, 1990
- 54.Gyermek L, Nguyen N, Wilde A, and Lee C: Cholinergic receptor blocking profile of quaternary ammonium derivatives of atropine. *Eur J Pharmacol*; 183(5), 1987, 1990
- 55.Gyermek L, Nguyen N, and Lee C: G-1-64, a new, rapidly acting nondepolarizing neuromuscular blocking agent. *Anesthesiol*; 73:A862, 1990
- 56.Gyermek L and Lee C: Reversal of pipecuronium and pancuronium induced neuromuscular block by edrophonium and pyridostigmine. *Anesthesiol*; 73:A874, 1990
- 57.Tsai S, Gyermek L, Lee C, and Nguyen N: Neuromuscular pharmacology of succinylcholine in the ferret. *Anesthesiol*; 83:A873, 1990
- 58.Lee C, Kwan W, Chen B, Tsai S, Gyermek L, Cheng M, and Cantley E: Desflurane (I-653) potentiates atracurium in humans. *Anesthesiol*; 73:A875, 1990
- 59.Lee C, Kwan W, Chen B, Tsai S, Gyermek L, Yang E, Chen M, and Cantley E: Phase II-III clinical trial with desflurane (I-653) in ASA I adult patients. *Anesthesiol*; 83:A873,

1990

- 60.Gyermek L, Nguyen N, and Lee C: Muscarinic subtype selectivity of tropacocaine derivatives in the rat. Anesth Analg; 72: S-97, 1991
- 61.Gyermek L, Nguyen N, Neumark A, and Lee C: Antimuscarinic spectrum of action of quaternary derivatives of tropacocaine. The Pharmacologist; 33:384, 1991
- 62.Gyermek L, Wilde A, Nguyen N, and Lee C: In vivo block of muscarinic receptors with derivatives of tropacocaine. Anesthesiol; A633 75, 1991
- 63.Gyermek L**, Nguyen N, Neumark A, and Lee C: Anticholinergic spectrum of action of dicarboxylic acid esters of tropine in the rat. IARS, 1992; Anesth Analg; 74:S-126, 1992
- 64.Gyermek L**, Cantley E, and Lee C: Reversal of neuromuscular block produced by pipecuronium. Anaesthetist; 40(2):S275, 1991
- 65.Gyermek L**, Garguly P, Lemetti P, and Nguyen N: Muscarinic receptor blocking profile of nondepolarizing muscle relaxants in the rat. FASEB J; 2097, 1992
- 66.Gyermek L**, Nguyen N, Wilde A, and Lee C: Surmountability of the pharmacologic reversal of nondepolarizing block by the relaxant. Abst 284, 10th World Congr of Anesthesiologists, The Hague, June, 1992
- 67.Gyermek L**, Nguyen N, and Lee C: A study of the role of interonium distances in the onset and duration of action of neuromuscular blocking tropinyl diesters in the rat. Anesthesiol; 77:A-913, 1992
- 68.Gyermek L**, Nguyen N, and Lee C: The role of kidney and liver on the efficacy and duration of neuromuscular blocking action of G-1-64 and vecuronium. Anesthesiol; 77:A-953, 1992
- 69.Gyermek L**, Lin N, Petty R, and Cantley E: Rotation of anesthesiology residents in the postanesthesia care unit, a survey. Anesth Analg; 76:S-130, 1993
- 70.Gyermek L**, Nguyen N, and Lee C: "Closed" chain derivatives of neuromuscular blocking tropinyl esters, a study in the rat. Anesth Analg; 76:S-132, 1993
- 71.Gyermek L**, Nguyen N, and Lee C: Structure activity relationships of neuromuscular blocking tropinyl diesters in the rabbit. Anesth Analg; 76:S-131, 1993
- 72.Gyermek L**, Nguyen N, and Lee C: Comparison of neuromuscular blocking effects of tropine and pseudotropine diester derivatives in the rat and the rabbit. Anesthesiol; 79:A955, 1993

- 73.**Gyermek L and Cantley E: Clinical onset, duration and fade characteristics of pipecuronium and pancuronium. Anesth Analg; 78:S-145, 1994
- 74.**Gyermek L, Lee C, and Nguyen N: Neuromuscular blocking ethylquaternary tropinyl diesters: A structure-activity study. Anesth Analg; 78:S-146, 1994
- 75.**Gyermek L: A simple device for the quantitative assessment of postoperative neuromuscular weakness. FASEB J; 8:A3306, 1994
- 76.**Gyermek L, Nguyen N, and Lee C: Neuromuscular blocking profile of bis-tropanium derivatives in the rat. Anesthesiol; 81(3):A1099, 1994
- 77.**Cheng M, Chung C, Wilde A, and Gyermek L: Assessment of residual neuromuscular block during the postoperative period. Anesth Analg; 80:S-74, 1995
- 78.**Gyermek L, Lee C, and Nguyen N: Neuromuscular blocking effects of polymethylene N,N'bis tropinium derivatives in the rat. Anesth Analg; 80:S-169, 1995
- 79.**Hsu D, Fu P, Gyermek L, and Lee C: Plasma cortisol and ACTH profile after a single lumbar epidural dose of triamcinolone in low back pain patients. Anesth Analg; 78:S165, 1994
- 80.**Gyermek L: A simple and economic method for the quantitation of clinical neuromuscular fade responses. Abstr. 24th Central European Congress on Anesthesiology, September 4-8, 1995, Vienna, Austria. Anaesthetist 44:Suppl 2, S-492, 1995
- 81.**Gyermek L, Lee C, Nguyen N: A study of the role of quaternizing groups on the neuromuscular blocking action in the rat. Anesthesiology; 83:A906, 1995
- 82.**Gyermek L: A simple and economic method for measurement of train of four fade. Anesthesiology; 83:A894, 1995
- 83.**Chung C, Ghadimi K, Sun S, and Gyermek L: Comparison between submaximal and supramaximal train of four versus double burst modes of nerve stimulation for evaluation of recovery from neuromuscular block. Abstr, Annual Meeting of the Calif Soc Anesthesiol, May 1995, Monterey, CA
- 84.**Chung C, Ghadimi K, Sun S, and Gyermek L: Train of four versus double burst modes of nerve stimulation. Anesthesiology 83:A, 1995
- 85.**Gyermek L, Lee C, and Nguyen N: The role of quaternary groups in the neuromuscular and cardiovascular effects of bis-quaternary model compounds in the rat. Anesth Analg; 80:S169, 1995

86.Gyermek L: Methods for the quantitation of neuromuscular fade responses. 11th World Congr Anaesthesiol 1996, Syndey, Australia, Abstr #P-0733

87.Gyermek L, Salonga J, and Nguyen N: A study of the possible invivo 5-HT₃ receptor blocking effect of propofol in the rat. 11th World Congr Anesthesiol 1996, Syndey, Australia, Abstr D-0022

88.Gyermek L and Hellmich B: Muscarinic receptor binding of N^G-nitro-L-Arginine methyl ester. 11th World Congr Anaesthesiol 1996, Sydney, Australia, Abstr #P-005

89.Gyermek L, Hellmich B, Nguyen N, Chiang J, and Wang, SW: A rat and rabbit study of the possible in vivo antimuscarinic action of N(g)-Nitroarginine methylester (L-NAME). Anesthesiology; 85:A573, 1996

90.Gyermek L, Chiang J, and Wang SW: Nicotinic receptor ligands and ³H Epibatidine binding in rat cerebral cortex. Anesth Analg; 84:S490, 1997

91.Gyermek L, Nguyen N, and Lee C: Reevaluation of the concept on inverted correlation between potency vs. onset and duration of action of nondepolarizing muscle relaxants. Anesth Analg; 84:S491, 1997

92.Gyermek L, Sun X, Nguyen N, and Dukat M: Is there a functional response-overlap between 5-HT₃ and nicotinic ion channel receptors? AB29 Proceedings Int Symposium:Advances in Serotonin Receptor Research, Oct. 8-11, 1997, San Francisco, CA

93.Gyermek L, Sun X and Lemetti P: A new intravenous regional anesthesia technique in the rabbit. Anesth Analg 86: S-452, 1998.

94.Gyermek L and Wang S: Inhibition of 3H Epibatidine binding by muscle relaxants in torpedo electric organ. Anesth Analg 86: S-453, 1998.

95.Sun X, Gyermek L and Shaw S: Antagonism of nicotinic receptor binding by muscle relaxants in torpedo electric organ. Anesth Analg 86: S-509, 1998.

96.Gyermek L, Nishiyama T, Kao E, Wang S, Nguyen N and Trudell M: Epibatidine analogues, a structure-function study FASEB J 13/5. A820 1, 1999.

97.Gyermek L, Trudell M and Nishiyama T: Azabicyclo (3.2.1) octane analogues of epibatidine. Potent spinal analgesics inthe rat. Anesthesiology 91: A-878, 1999.

98. Gyermek L, Lee C, Nguyen N and Cho YM: A structure-activity study of a series of neuromuscular blocking bis-tropinyl diesters in the rat. Brit J Anaesthesiol 82, Suppl 1, 116, A0384, 1999.

99 .Gyermek L, Lee C, Cho YM, Nguyen N and Tsai SK: A rat study of correlating neuromuscular blocking characteristics with stereochemical features. Abstract #1214. 12th World Congress of Anesthesiologists. June 4-9, 2000, Montreal.

100. Ji A, Trudell M, Lin R and **Gyermek L**: Epibatidine derivatives. Abstract #1511, 12th World Congress of Anesthesiologists. June 4-9, 2000, Montreal.

101. Lomenzo SA, **Gyermek L** and Trudell M: synthesis and nicotinic receptor affinity of -acetoxytropane derivatives. A-274. Div. Med. Chem. 219th ACS National Meeting March 26-30, 2000, San Francisco, CA.

102. **102.**

Gyermek L, Lee,C Cho Y M, Nguyen N: Search for the optimal quaternizing moiety in ultrashort acting neuromuscular blocking agents. A-1036. ASA Annual Meeting, San Francisco CA. Oct 14-18, 2000.

102. **103.**

Gyermek L, Lee C, Cho YM and Nguyen N.: 2,6-Dichlorbenzyl quaternaries of tropinyl diesters. The functional role of the acid ester group in neuromuscular block. A-1035. ASA Annual Meeting, San Francisco, CA. Oct 14-18, 2000.

102. **104.**

Gyermek L, Lee, Cho YM and Nguyen N.: New , ultrashort acting muscle relaxants. Neuromuscular blocking profile on infusion administration in pigs. A-1012. ASA Annual Meeting, San Francisco, CA. Oct 14-18, 2000.

102. **105.**

Gyermek L. Nguyen N. and Cho YM: Time course of the breakdown in blood of two tropinyl diester type neuromuscular blocking agents. A-1013. ASA Annual Meeting. Sac Francisco, CA Oct 14-18,2000.

102. **106.**

Gyermek L, Lee C, Cho YM. And Nguyen N: Neuromuscular blocking tropinyl diesters. Optimization of the N,N' benzyl groups. IARS 75th Congress March, 2001. Anesth.Analg. 92, S-199,2001.

102. **107.**

Gyermek L, Lee C, Cho YM and Nguyen N: TAAC 3 An ultrashort acting nondepolarizing muscle relaxant in animals. IARS 75 th Congress, Ft Lauderdale, FL. March 2001. Anesth. Analg. 92, S-200, 2001.

102. **108.**

Gyermek L: Lee C, Nguyen N. and Cho YM: Effects on infusion administration of new, ultrashort acting muscle relaxants in Pigs. IARS 75 th Congress , FT. Lauderdale, FL. March 2001. Anesth. Analg. 92, S-201, 2001.

102. **109.**
Gyermek L: Ji A, Nguyen N. and Trudell M: An epibatidine-like bisquaternary agent with strong affinity and action on Nicotinic receptors. IARS 75th Congress, Ft Lauderdale, FL. March 2001. Anesth. Analg. 92,S-198. 2001
110. Lee C, **Gyermek L**, Cho YM, Nguyen,N :Chain length and pharmacological profile of TAAC3 analogues. IARS 75th Congress, Ft.Lauderdale FL. March 2001. Anesth. Analg. 92, S-204, 2001.
111. Nishiyama T, **Gyermek L**, Lee C, Kawasaki-Yashugi S, and Yamaguchi T: Analgesia interaction between intrathecal clonidine and glutamate receptor antagonists on thermal and formalin induced pain in rats. IARS 75th Congress, Ft. Lauderdale FL. March 2001. Anesth. Analg. 92, S-241, 2001.
112. Park HS and **Gyermek L.** : 3H epibatidine displacement in Torpedo tissue by new rapidly acting muscle relaxants. FASEB J A-4653, 2001
- 113. Gyermek L,** Lee C, Cho YM and Nguyen N: Alkoxy-acetoxy benzyl quaternary derivatives of tropinyl diesters. Ultrashort acting nondepolarizing muscle relaxants. Abstr. 7th International Neuromuscular Meeting, June 21-24,2001. Belfast,UK
114. Lee C, **Gyermek L**, Cho YM and Nguyen N: Di-acetoxy benzyl quaternized ultrashort acting tropinyl diester muscle relaxants. Abstr. 7th International Neuromuscular Meeting, June 21-14, 2001. Belfast, UK
- 115.Gyermek L,** Lee C, Cho YM and Nguyen N: Granatanol derivataives: u;trashort acting muscle relaxants in animals. Abstr. Annual Meeting, ASA. October 13-17,2001. New Orleans, LA.
- 116. 116.**
Lee C, Cho YM, **Gyermek L**, and Nguyen N: Conformation-potency relationship of phtalate isomers of TAAC3. Abstr. Annual Meeting, ASA. October 13-17,2001. New Orleans. LA.
- 117.**
118. 117. Nishiyama T, Hanaoka K, **Gyermek L.** and Trudell, M.: Spinally mediated analgesic effects of epibatidine analoges in rats. Abstracts. Annual Meting, Eur. Soc. Anaesthesia. April 2002. Nice, France.
118. **Gyermek L.:** Lipophilicity and the functional profile of tropinyl diester muscle relaxants.
Abstract A-991, Annual Meeting, ASA. October 12-16, 2002. Orlando, FL.
119. **Gyermek L,** Lee C, Cho YM and Nguyen N.: Comparison of the neuromuscular blocking profile of 6 and 8-azabicyclo[3.2.1] octane 3-ol diester derivatives in anaimals. Abstract A-990, Annual Meeting, ASA. October 12-16, 2002 Orlando, FL

120. **Gyermek L**, Lee C and .Nguyen N.: Peripheral muscarinic and nicotinic receptors-mediated effects of TAAC3, a new ultrashort acting muscle relaxant in the rat. 77th Congress, IARS. March 21-25, 2003. New Orleans, LA Anesth. Analg. 96: S-237 2003
121. **Gyermek L**, Lee C, Cho YM and Nguyen N: Trop(6-7)ene-ol derivatives; Novel neuromuscular relaxants in animals. Abstract P 0738, 13th World Congress of Anaesthesiologists April 18-23, 2004, Paris
122. **Gyermek L**: Quaternary ammonium N-stereoisomerism; Structural and functional aspects Abstract P 0779, 13th World Congress of Anaesthesiologists. April 18-23, 2004, Paris
123. **Gyermek L**, Lee C, Cho YM and Nguyen N: A rat study comparing neuromuscular blocking bis tropines with alkane and alkene dicarboxylic acid linkers. Abstract #1147 Annal Meeting of the ASA October 23-27, 2004 , Las Vegas, NE.
124. .Zhang C, **Gyermek L**, and Trudell M: Synthesis of optically pure epibatidine analogs:(1R, 2R, 5S)-2(2-Chloro-5-pyridinyl)-8-azabicyclo [3.2.1] octane and (1R, 2S, 5S)- 2(2-Chloro-5-pyridinyl)-8-aza bicyclo [3.2.1] octane from cocaine. Cheminform 28/44, 2010

Laszlo Gyermek
January 29, 2015