

CONTENTS

REVIEWS

- Lee, C.Y. (1970) Elapid Neurotoxins and Their Mode of Action. In: "Snakebite and Snake Venoms", edited by Minton, Clin. Toxicol. 3: 457-472.....1 - 16
- Lee, C.Y. (1971) Mode of Action of Cobra Venom and Its Purified Toxins. In: Neuropoisons. vol. 1, edited by L.L. Simpson (Plenum Press, New York) pp. 21-7017 - 66
- ✓Lee, C.Y. (1972) Recent Advances in Chemistry of Polypeptide Toxins from Snake Venoms. J. Chinese Biochem. Soc., 1:47-56 67 - 76
- Lee, C.Y. (1972) Classification of Polypeptide Toxins from Elapid and Sea Snake Venoms According to Their Pharmacological Properties and Chemical Structures. J. Formosan Med. Assoc., 71: 311-317.....77 - 83
- ✓Lee, C.Y. (1972) Chemistry and Pharmacology of Polypeptide Toxins in Snake Venoms. Ann. Rev. Pharmacol., 12: 265-286.84 - 105
- Lee, C.Y. (1973) Chemistry and Pharmacology of Purified Toxins from Elapid and Sea Snake Venoms. 5th Int. Congr. Pharmacology, San Francisco 1972, 2: pp. 210-232.....106 - 128
- Lee, C.Y. (1965) Studies on the Neurotoxins Isolated from the Elapine Venoms. J. Showa Med. Ass., 23: 221-229.....129 - 137

CHEMICAL STUDIES ON *ELAPIDAE* VENOMS

- Jeda, E., Sasaki, T. and Peng, M.T. (1951) A Chemical Study on Formosan Cobra Venom. J. Formosan Med. Assoc., 1: 194-199.138 - 143
- ✓Chang, C.C. & Lee, C.Y. (1955) Cholinesterase and Anticholinesterase Activities in Snake Venoms. J. Formosan Med. Assoc., 54: 103-112.....144 - 153
- ✓Lee, C.Y., Chang, C.C. & Kamijo, K. (1956) Cholinesterase Inactivation by Snake Vnoms. Biochem. J., 62: 582-588.....154 - 160
- Wei, A-Li & Lee, C.Y. (1965) A Nucleoside Isolated from the Venom of *Bungarus multicinctus*. Toxicon, 3: 1-4.....161 - 164
- Lo, T.B., Chen, Y.H. & Lee, C.Y. (1966) Chemical Studies of Formosan Cobra (*Naja naja atra*) Venom. Part 1. Chromatographic Separation of Crude Venom on CM-Sephadex and Preliminary Characterization of Its Components. J. Chinese Chem. Soc., 13: 25-37.....165 - 177

- Hamaguchi, K., Ikeda, K. & Lee, C.Y. (1968) Optical Rotatory Dispersion and Circular Dichroism of Neurotoxins Isolated from the Venom of *Bungarus multicinctus*. J. Biochem., 64: 503-506.....178 - 181
- Narita, K. & Lee, C.Y. (1970) The Amino Acid Sequence of Cardiotoxin from Formosan Cobra (*Naja naja atra*) Venom. Biochem. Biophys. Res. Comm., 41: 339-343.....182 - 186
- Mebs, D., Narita, K. & Lee, C.Y. (1971) Amino Acid Sequence of α -bungarotoxin from The Venom of *Bungarus multicinctus*. Biochem. Biophys. Res. Comm., 44: 711-716.....187 - 192
- Shiau Lin, S.Y. & Lee, C.Y. (1971) Are Neurotoxins from Elapid Venoms Glycoproteins? Toxicon, 9: 295-296.....193 - 194
- Lee, C.Y., Chang, S.L., Kau, S.T. & Luh, S.H. (1972) Chromatographic Separation of the Venom of *Bungarus multicinctus* and Characterization of Its Components. J. Chromatogr., 72: 71-82.....195 - 206
- Mebs, D., Narita, K., Iwanaga, S., Samejima, Y. & Lee, C.Y. (1972) Purification, Properties and Amino Acid Sequence of α -bungarotoxin from the Venom of *Bungarus multicinctus*. Hoppe-Seyler's Z. Physiol. Chem. Bd., 353: 243-262.....207 - 226
- Narita, K., Mebs, D., Iwanaga, S., Samejima, Y. & Lee, C.Y. (1972) Primary Structure of α -Bungarotoxin from *Bungarus multicinctus* Venom. J. Formosan Med. Assoc., 71: 336-343..227 - 234

PHARMACOLOGICAL STUDIES ON *ELAPIDAE* VENOMS

(1) Neurotoxins

- Peng, M.T. (1951) A Toxicological Study on the Fractionated Venom on *Naja naja atra*. Memoirs of the Faculty of Medicine, National Taiwan University 1: 200-213.....235 - 248
- Peng, M.T. (1952) Action of the Venom of *Naja naja atra* on Respiration and Circulation. Memoirs of the Faculty of Medicine, National Taiwan University, 2: 170-183.....249 - 262
- Chang, C.C. (1960) Studies on the Mechanism of Curare-like Action of *Bungarus multicinctus* Venom. I. Effect on the Phrenic Nerve-diaphragm Preparation of the Rat. J. Formosan Med. Assoc., 59: 315-323.....263 - 271
- Chang, C.C. (1960) Studies on the Mechanism of Curare-like Action of *Bungarus multicinctus* Venom. II. Effect on Response of Rectus Abdominis Muscle of the Frog to Acetylcholine. J. Formosan Med. Assoc., 59: 416-426.....273 - 279

- Lee, C.Y., Chang, C.C. & Su, C. (1960) Effect of Group Specific Reagents on Toxicity and Curare-like Activity of Elapid Venoms. J. Formosan Med. Assoc., 59: 1065-1072.....280 - 281
- Su, C. (1960) Mode of Curare-like Action of Cobra Venom. J. Formosan Med. Assoc., 59: 1083-1091.....288 - 296
- Lee, C.Y. & Peng, M.T. (1961) An Analysis of the Respiratory Failure Produced by the Formosan Elapid Venoms. Arch. int. Pharmacodyn., 133: 180-192.....297 - 309
- Lee, C.Y., Chang, C.C., Su, C. & Chen, Y.W. (1962) The Toxicity and Thermostability of Formosan Snake Venoms. J. Formosan Med. Assoc., 61: 239-244.....310 - 315
- Chang, C.C. & Lee, C.Y. (1963) Isolation of Neurotoxins from the Venom of *Bungarus multicinctus* and their Modes of Neuromuscular Blocking Action. Arch. int. Pharmacodyn., 144: 241-257.....316 - 332
- Chang, C.C. & Lee, C.Y. (1966) Electrophysiological Study of Neuromuscular Blocking Action of Cobra Neurotoxin. Br. J. Pharmac. Chemother., 28: 172-181.....333 - 342
- Lee, C.Y. & Chang, C.C. (1966) Modes of Actions of Purified Toxins from Elapid Venoms on Neuromuscular Transmission. Mem. Inst. Butantan Simp. Internac., 33(2): 555-572.....343 - 360
- Lee, C.Y. & Tseng, L.F. (1966) Distribution of *Bungarus multicinctus* Venom Following Envenomation. Toxicon, 3: 281-290.361 - 371
- Lee, C.Y. & Tseng, L.F. (1967) Influence of Denervation on Localization of Neurotoxins from Elapid Venoms in Rat Diaphragm. Nature, 215: 1177-1178.....372 - 373
- Su, C., Chang, C.C. & Lee, C.Y. (1967) Pharmacological Properties of the Neurotoxins of Cobra Venom. In "Animal Toxins" Pergamon Press, Oxford & New York, 259-267.....374 - 382
- Tseng, L.F., Chiu, T.H. & Lee, C.Y. (1968) Absorption and Distribution of ¹³¹I-labeled Cobra Venom and Its Purified Toxins. Toxic. Applied Pharmac., 13: 526-535.....383 - 392
- Chou, T.C. & Lee, C.Y. (1969) Effect of Whole and Fractionated Cobra Venom on Sympathetic Ganglionic Transmission. Europ. J. Pharmacol., 8: 326-330.....393 - 397
- Lee, C.Y. & Tseng, L.F. (1969) Species Differences in Susceptibility to Elapid Venoms. Toxicon, 7: 89-93.....398 - 402

- Changeux, J-P., Kasai, M. & Lee, C.Y. (1970) Use of a Snake Venom Toxin to Characterize the Cholinergic Receptor Protein. Proc. Nat's Acad. Sco., 67: 1241-1247.....403 - 409
- Chen, I.-L. & Lee, C.Y. (1970) Ultrastructural Changes in the Motor Nerve Terminals Caused by β -Bungarotoxin. Virchows Arch. A.B.Z., 6: 318-325.....411 - 418
- Chen, I-L. & Lee, C.Y. (1970) Effects of β -Bungarotoxin on Synaptic Vesicles. 2nd Intern. Symp. Animal & Plant Toxins, Tel-Aviv. Israel, 667-673.....419 - 425
- Lee, C.Y., Huang, P-F. & Tsai, M.C. (1971) Mode of Neuromuscular Blocking Action of the Desert Black Snake Venom. Toxicon, 9: 429-430.....426 - 428
- Lee, C.Y., Chang, C.C. & Chen, Y.M. (1972) Reversibility of Neuromuscular Blockade by Neurotoxins from Elapid and Sea Snake Venoms. J. Formosan Med. Assoc., 71: 344-349.....429 - 434
- Lee, C.Y. & Tsai, M.C. (1972) Does the Desert Black Snake Venoms Inhibit Release of Acetylcholine from Motor Nerve Endings. Toxicon, 10: 659-660.....435 - 437
- Chang, C.C., Chen, T.F. & Lee, C.Y. (1973) Studies of the Pre-synaptic Effect of β -Bungarotoxin on Neuromuscular Transmission. J. Pharmacol. Exp. Ther., 184: 339-345.....438 - 444
- Chang, C.C., Chen, T.F. & Chuang, S.T. (1973) Influence of Chronic Neostigmine Treatment on the Number of Acetylcholine Receptors and the Release of Acetylcholine from the Rat Diaphragm. J. Physiol. Lond., 230: 613-618.....445 - 450
- Chang, C.C., Chen, T.F. & Chuang, S.T. (1973) N,O-Di and N,N,O Tri ^3H -acetyl- α -bungarotoxin as Specific Labelling Agents of Cholinergic Receptors. Br. J. Pharmac., 47: 147-160....451 - 464
- Chang, C.C., Huang, M.C. & Lee, C.Y. (1973) Mutual Antagonism Between Botulinum Toxin and β -Bungarotoxin. Nature, 243: 166-167.....465 - 467

PHARMACOLOGICAL STUDIES ON *ELAPIDAE* VENOMS

(2) Cardiotoxin

- Lee, C.Y., Chang, C.C., Chiu, T.H., Chiu, P.J.S., Tseng, T.C. & Lee, S.Y. (1968) Pharmacological Properties of Cardiotoxin Isolated from Formosan Cobra Venom. Naunyn-Schmiedeberg's Arch. Pharmacol. u. exp. Path. 259: 360-374.....468 - 482
- Lee, C.Y., Lin, J.S. & Wei, J.W. (1970) Identification of Cardiotoxin with Cobramine B, DLF, Toxin γ and Cobra Venom Cyto-toxin. 2nd Intern. Symp. Animal & Plant Toxins, Tel-Aviv Israel, 307-318.....483 - 494

- Chang, C.C., Wei, J.W., Chuang, S.-T. & Lee, C.Y. (1972) Are the Blockade of Nerve Conduction and Depolarization of Skeletal Muscle Induced by Cobra Venom Due to Phospholipase A, Neurotoxin or Cardiotoxin? J. Formosan Med. Assoc., 71: 323-327..... 495 - 499
- Chang, C.C., Chuang, S.-T., Lee, C.Y. & Wei, J.W. (1972) Role of Cardiotoxin and Phospholipase A in the Blockade of Nerve Conduction and Depolarization of Skeletal Muscle Induced by Cobra Venom. Br. J. Pharmac., 44: 752-764..... 500 - 512
- Lai, M.K., Wen, C.Y. & Lee, C.Y. (1972) Local Lesions Caused by Cardiotoxin Isolated from Formosan Cobra Venom. J. Formosan Med. Assoc., 71: 328-332..... 513 - 517
- Lee, C.Y., Lin, J.S. & Lin Shiau, S.-Y. (1972) A Study of the Carcinolytic Factor of Formosan Cobra Venom. Proc. Nat'l Sci. Council, 5: 9-14..... 518 - 523
- Lin Shiau, S.Y., Huang, M.-C. & Lee, C.Y. (1972) Isolation of Cardiotoxic and Neurotoxic Principles from the Venom of *Bungarus fasciatus*. J. Formosan Med. Assoc., 71: 350-357.. 524 - 531

CROTALIDAE AND VIPERIDAE

- ✓ Lee, C.Y. (1948) Toxicological Studies on the Venom of *Vipera russellii formosensis* Maki. Part I. Toxicity and Pharmacological Properties. J. Formosan Med. Assoc., 47: 65-84.. 532 - 553
- Peng, M.T. (1950) Relation Between the Change of Blood-Sugar Fluctuation and the Production of Immune Bodies by Successive Injections of *Trimeresurus mucrosquamatus* Venom. J. Formosan Med. Assoc., 49: 215-223..... 554 - 562
- Peng, M.T. (1951) Action of the Venom of *Trimeresurus mucrosquamatus* on Circulation and Respiration. Memoirs of the Faculty of Medicine, National Taiwan University, 1:215-222. 563 - 571
- ✓ Lee, C.Y., Johnson, S.A. and Seegers, W.H. (1955) Clotting of Blood With Russell's Viper Venom. J. Michigan State Soc. Med., 54: 801-804 & 824..... 572 - 576
- Ouyang, C. (1957) The Effect of Formosan Snake Venoms on Blood Coagulation *in vitro*. J. Formosan Med. Assoc., 56: 435-448.. 577 - 590
- Lee, C.Y. & Ouyang, C. (1958) Mechanism of Anticoagulant Action of Snake Venoms. A Comparison of Effects of the Venoms of *Naja naja atra* (Cobra) and *Trimeresurus mucrosquamatus* (Habu). Proceedings of the 7th International Congress of the International Society of Hematology 2: 1130-1134..... 591 - 595

- Chen, Y.S. (1962) Influence of Diisopropylfluorophosphate on the Thrombin-like Action of Snake Venoms. J. Formosan Med. Assoc., 61: 245-250.....596 - 601
- Chiang, T.S., Ho, K.J. & Lee, C.Y. (1964) Release of Histamine from the Rat Diaphragm Preparation by Formosan Snake Venoms. J. Formosan Med. Assoc., 63: 127-132..... 602 - 607
- Shiau, S.Y. & Ouyang, C. (1965) Isolation of Coagulant and Anti-coagulant Principles from the Venom of *Trimeresurus gramineus*. Toxicon, 2: 213-220.....608 - 615
- Cheng, H.C. & Ouyang, C. (1967) Isolation of Coagulant and Anticoagulant Principles from the Venom of *Agkistrodon acutus*. Toxicon, 4: 235-243.....616 - 624
- Ouyang, C. & Shiau, S.Y. (1970) Relationship Between Pharmacological Action and Enzymatic Activities of the Venom of *Trimeresurus gramineus*. Toxicon, 8: 183-191.....625 - 633
- Ouyang, C., Hong, J.S. & Teng, C.M. (1971) Purification and Properties of the Thrombin-like Principle of *Agkistrodon acutus* Venom and Comparison with Bovine Thrombin. Thrombos. Diathes. haemorrh. (Stuttg.) 26: 224-234.....635 - 645
- Ouyang, C., Teng, C.M. & Hong, J.S. (1972) Purification and Properties of the Coagulant and Anticoagulant Principles of *Agkistrodon acutus* Venom. J. Formosan Med. Assoc., 71: 401-407.....646 - 652
- Ouyang, C. & Teng, C.M. (1972) Purification and Properties of the Anticoagulant Principle of *Agkistrodon acutus* Venom. Biochim. Biophys. Acta, 278: 155-162.....653 - 660
- Ouyang, C. & Teng, C.M. (1973) The Effect of the Purified Anticoagulant Principle of *Agkistrodon acutus* Venom on Blood Coagulation. Toxicon, 11: 287-292.....661 - 666

SUPPLEMENTS

- To, Somei & Ri, Tingen (1941) Toxikologische Wirkungen des Giftes von *Vipera russellii formosensis* Maki. Jap. J. Med. Sc. IV Pharmacology, 14: 200-201.....667 - 670
- Ri, Tingen (1942) Toxikologische über das Gift von *Vipera russellii formosensis* Maki. II. Mitteilung. Jap. J. Med. Sc. IV. Pharmacology 15: 38-39..... 671 - 673

- Ri, Tingen (1944) Toxikologische Studien über das Gift von *Vipera russellii formosensis* Maki. III. Mitteilung: Wirkung auf die Koagulation des Koninchenblutes in Vivo: Jap. J. Med. Sc. IV. Pharmacology, 16: 78..... 674 - 675
- Ri, Tingen (1944) Toxikologische Studien über das Gift von *Vipera russellii formosensis* Maki. IV. Mitteilung über die Todesursache des Kaninchens. Folia Pharmacologica Japonica 40: 53-54.....676 - 679
- ✓Lee, C.Y. (1948) Toxicological Studies on the Venom of *Vipera russellii formosensis* Maki. V. Actions on the Circulatory System of the Rabbit. J. Formosan Med. Assoc., 47: 14.....680