Dr. R. Manjunatha Kini - List of Publications

PATENTS

1-15. Evans, H. J. and **Kini, R. M.**: Polypeptides that include conformation-constraining groups which flank a protein-protein interaction site. U. S. patents 5,928,896; 5,948,887; 5,952,465; 5,965,698; 6,084,066; 6,100,044; 6,111,069; 6,147,189; 6,258,550; several others pending.

16-17. Gopalakrishnakone, P., Pu, X. C., Wong, P. T. H., Gwee, M. C. E. and **Kini, R. M.**: Therapeutic molecules derived from snake venom. U. S. patent 6,613,745. Singapore patent 129211.

18-19. **Kini, R. M.**, Subburaju, S. and Chow, G. L. S.: Novel protein molecules and uses therefor. U. S. Patent 6,075,129. Singapore patent 81920.

20. Gopalakrishnakone, P., **Kini, R. M.** and Huang, M. Z.: Novel anti-clotting molecules and uses therefor. Singapore patent application under consideration.

21. **Kini, R. M.**, Jeyaseelan, K., Jeramiah Joseph, Armugam, A. and Mirtschin, P.: Snake venom enzymes as tools in molecular biology. Singapore patent application under consideration.

22. Chen, S. H., **Kini, R. M.** and Dong Hui: A method for inhibiting clot formation. Singapore patent 81245.

23-24. Ge, R. and **Kini, R. M.**: Small peptides having potent anti-angiogenic activity. US Patent 6,200,954; Other applications pending.

25. Kang, T. S. and **Kini, R. M.**: Conformational Switches in toxin folding and uses thereof. US Patent Application No. 60/608,151; Singapore, Japan, and Europe applications pending.

26. **Kini, R. M.**, Kumar, P. P., Wong, P. T. H. and Pung, Y. F.: Novel Snake Toxin. US Patent Application No. 60/639,345; Singapore, Japan, and Europe applications pending.

27. **Kini, R. M.** and Banerjee, Y.: Novel anticoagulant polypeptides and complex. US Patent Application No. 60/706,250. Singapore, Japan, Europe, China and India applications pending.

28. Ge, R. and **Kini, R. M.**: Compounds and uses thereof. Singapore Patent Application 200403034-2; US Patent Application pending.

29. **Kini, R. M.**, Reza, M. A. and Swarup, S.: Novel promoter sequences for elevated protein expression in mammalian system US provisional Application filed.

30. **Kini, R. M.**, Kumar, P. P., Wong, P. T. H. and R. Nandhakishore: β–Cardiotoxin: A new three-finger toxin from Ophiophagus hannah (King Cobra) with beta-blocker activity. Singapore Patent Application pending.

RESEARCH PUBLICATIONS

Doctoral Thesis:

Studies on the effects of a plant isolate on snake venom enzymes. University of Mysore, Mysore, INDIA, 1983.

Books/ Special Issues:

Venom Phospholipase A_2 Enzymes: Structure, Function and Mechanism (**Kini, R. M.**, Editor), pp. 1-511, John Wiley & Sons, Chichester, England, 1997.

International Conference on Exogenous Factors Affecting Thrombosis and Haemostasis (Bon, C., **Kini, R. M.**, Markland, F. S., Marsh, N. A. and Rosing, J., Editors), Haemostasis Vol. 31, pp. 117-311, S. Karger, Basel, Switzerland, 2002.

Exogenous Factors Affecting Thrombosis and Hemostasis (**Kini, R. M.**, Guest Editor), Current Drug Targets – Cardiovascular and Hematologic Disorders. Bentham Publishers, 2004.

Exogenous Factors Affecting Thrombosis and Haemostasis (**Kini, R. M.**, Marsh, N. A., Markland, F. S. and Broady, K. W., Editors), Pathophysiology of Haemostasis and Thrombosis Vol. 34, pp.145-248, S. Karger, Basel, Switzerland, 2005.

Journal Papers:

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3. **Kini, R.M.** and Gowda, T.V.: Studies on snake venom enzymes: Part II-Partial characterization of ATPases from Russell's viper (Vipera russelli) venom and their interaction with potassium gymnemate. Indian J. Biochem. Biophys., **19**, 342-346, 1982.

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13. Gong, J. P., **Kini, R. M.**, Gopalakrishnakone, P. and Gwee, M. C. E.: Separation and fractionation of toxins from the scorpion Buthus martensi Karasch. Third International Union of Biochemistry and Molecular Biology Conference held at Singapore, 1995. Toxicon, **33**, 1398, 1995.

14. **Kini, R. M.**: A common structural feature enclosing protein-protein interaction sites: prediction of interaction sites and development of potent bioactive peptides. Third International Union of Biochemistry and Molecular Biology Conference held at Singapore, 1995. Toxicon, **33**, 1400, 1995.

15. **Kini, R. M.**: Do we know the complete sequence of metalloproteinase and nonenzymatic platelet aggregation inhibitor (disintegrin) precursor proteins? Fifth Pan American Symposium on Animal, Plant and Microbial Toxins held at Fort Detrick, Maryland, USA, 1995. Toxicon, **34**, 287, 1996.

16. **Kini, R. M.**: Purification and characterization of anticoagulants from Austrelaps superbus (copperhead) snake venom. Fifth Pan American Symposium on

Animal, Plant and Microbial Toxins held at Fort Detrick, Maryland, USA, 1995. Toxicon, **34**, 321, 1996.

17. Gong, J. P., **Kini, R. M.**, Gwee, M. C. E. and Gopalakrishnakone, P.: Isolation of a purified toxin (martoxin, MTX) from the venom of the scorpion Buthus martensi Karsch with adrenergic and NANC actions. Fifth Pan American Symposium on Animal, Plant and Microbial Toxins held at Fort Detrick, Maryland, USA, 1995. Toxicon, **34**, 330, 1996.

18. Gong, J. P., **Kini, R. M.**, Gwee, M. C. E. and Gopalakrishnakone, P.: Biochemical and pharmacological characterization of a purified toxin (martoxin, MTX) from the venom of the scorpion Buthus martensi Karsch. 5th Inetranational Symposium on Neurobiology held at Mayaguez, Puerto Rico, 1995.

19. Huang, M., Chung, M., **Kini, R. M.** and Gopalakrishnakone, P.: The complete amino acid sequence of an acidic phospholipase A_2 from the venom of Ophiophagus hannah. 1st Asia-Pacific Anatomical Conference held at Singapore, 1995. Toxicon, **34**, 623-624, 1996.

20. Chen, D. S., Ghadessey, F. G., Khoo, H. E., **Kini, R. M.** and Yuen, R.: Role of free thiols in the biological properties of stonustoxin. 4th Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Kunming, Yunnan, China, 1996.

21. R. Yuen, Chen, D. S., Ghadessy, F. G., Khoo, H. E. and **Kini, R. M.**: Role of cationic residues in the haemolytic activity of stonustoxin. 4th Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Kunming, Yunnan, China, 1996.

22. Huang, M. Z., Gopalakrishnakone, P. and Kini, R. M.: Inhibition of human platelet aggregation by a phospholipase A_2 platelet inhibitor from Ophiophagus hannah (King cobra) venom. 4th Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Kunming, Yunnan, China, 1996.

23. Gong, J. P., **Kini, R. M.**, Gwee, M. C. E. and Gopalakrishnakone, P.: Prejunctional nitrergic effects of makatoxin I from scorpion (Buthus martensi Karsch) venom in the rat isolated anococcygeus muscle. 4th Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Kunming, Yunnan, China, 1996.

24. Gong, J. P., **Kini, R. M.**, Gwee, M. C. E. and Gopalakrishnakone, P.: Makatoxin I (MkTx I): a new toxin purified from the venom of the scorpion Buthus martensi Karsch. 12th FAOBMB symposium held at Tokushima, Japan, 1996.

25. Shatursky, O. Ya., **Kini, R. M.**, Venning, M. G., Hughes, B. P. and Bretag, A. H.: Venom of the death adder snake forms cation selective channels in bilayer lipid membrane. Third International Workshop on Pore-Forming Toxins held at Mainz, Germany, 1996.

26. Subburaju, S. and **Kini, R. M.**: Acanthin, a phospholipase A_2 from *Acanthophis antarcticus* venom, inhibits platelet aggregation by a nonenzymatic mechanism. 16th Congress of the International Society on Thrombosis and Haemostasis held at Florence, Italy, 1997.

27. Sim, K. L. and **Kini, R. M.**: Purification and characterization of praelongins, antiplatelet phospholipases from the snake venom of *Acanthophis praelongus*. 16th Congress of the International Society on Thrombosis and Haemostasis held at Florence, Italy, 1997.

28. Huang, M. Z., Gopalakrishnakone, P. and **Kini, R. M.**: Mechanism of the antiplatelet effect of a phospholipase A_2 (OHV A-PLA_2) from the venom of *Ophiophagus hannah* (King cobra). 16th Congress of the International Society on Thrombosis and Haemostasis held at Florence, Italy, 1997.

29. Tan, B. K. H., **Kini, R. M.** and Gao, S. J.: Screening extracts of *Pronephrium triphyllum* and *Moringa oleifera* for anticoagulant activity. 7th SCBA International Symposium held at Toronto, Canada, 1997.

30. **Kini, R. M.**: Identification of potential functional sites in proteins: toxins to therapeutics. 12th World Congress on Animal, Plant and Microbial Toxins held at Cuernavaca, Mexico, 1997.

31. Gong, J. P., Gopalakrishnakone, P., **Kini, R. M.** and Gwee, M. C. E.: Capillary electrophoretic analysis of scorpion venoms. 12th World Congress on Animal, Plant and Microbial Toxins held at Cuernavaca, Mexico, 1997.

32. Gong, J. P., Gwee, M. C. E., **Kini, R. M.** and Gopalakrishnakone, P.: Chibutoxin, a novel toxin isolated from the venom of the scorpion *Buthus martensii* Karsch which inhibits adrenergic transmission. 12th World Congress on Animal, Plant and Microbial Toxins held at Cuernavaca, Mexico, 1997.

33. Armugam, A., Kok, S. L., **Kini, R. M.**, Gopalakrishnakone, P., Tan, N. H. and Jeyaseelan, K.: Cloning and sequence analysis of genes encoding phospholipase A_2 in the venom of *Naja naja sputatrix*. 12th World Congress on Animal, Plant and Microbial Toxins held at Cuernavaca, Mexico, 1997.

34. Huang, M. Z., Gopalakrishnakone, P. and **Kini, R. M.**: Mechanism of the effect of a phospholipase A_2 platelet inhibitor from *Ophiophagus hannah* venom. 12th World Congress on Animal, Plant and Microbial Toxins held at Cuernavaca, Mexico, 1997.

35. Wang, R., **Kini, R. M.** and Chung, M. C. M.: Rhodocetin, a novel C-type lectin related protein from the venom of Calloselasma rhodostoma (Malayan pit viper). Institute of Molecular and Cell Biology Tenth Anniversary Symposium held at Singapore, 1997.

36. Thwin, M. M., Gopalakrishnakone, P., **Kini, R. M.**, Armugam, A. and Jeyaseelan, K.: An endogenous antitoxic factor from Python reticulatus serum:

protein purification and cDNA cloning. An Inaugural Conference: From Venoms to Drugs held at Heron Island, Australia, 1998.

37. Roma, S., Lim, C. Y., Armugam, A., **Kini, R. M.,** Gopalakrishnakone, P., Strong, P. N. and Jeyaseelan, K.: Molecular cloning of a potassium channel blocking toxin gene from Indian Red Scorpion, *Mesobuthus tamulus*. An Inaugural Conference: From venoms to Drugs held at Heron Island, Australia, 1998.

38. **Kini, R. M.**: From toxins to therapeutics. First Annual Workshop on Natural Toxins held at Bangkok, Thailand, 1998.

39. Wang, R. H., **Kini, R. M.** and Chung, M. C. M.: Rhodocetin, a novel platelet aggregation inhibitor from the venom of Calloselasma rhodostoma (Malayan pit viper). 8th FAOBMB congress held at Kuala Lumpur, Malaysia, 1998.

40. Ali, S. M., Loh, C., Hirpara, J. L., Dong, H., **Kini, M.** and Pervaiz, S.: Activation of multiple apoptotic pathways accounts for the effectiveness of novel anti-tumor compounds. American Association for Cancer Research Annual Meeting held at Philadelphia, USA, 1999.

41. Joseph, J. S., Chung, M. C. M., Jeyaseelan K. and **Kini, R. M.**: Trocarin, a toxin from *Tropidechis carinatus* venom structurally and functionally similar to blood coagulation factor Xa. 17th Congress of the International Society on Thrombosis and Haemostasis held at Washington, DC, USA, 1999. **Featured poster**. **Received the Reach-the-World Travel Award.**

42. Joseph, J. S., Chung, M. C. M. and **Kini, R. M.**: Unusual kinetics of trocarin, a snake factor Xa homologue isolated from *Tropidechis carinatus* venom. 17th Congress of the International Society on Thrombosis and Haemostasis held at Washington, DC, USA, 1999.

43. Chow, G. and **Kini, R. M.**: Mechanism of antiplatelet activity of acanthin isolated from the venom of *Acanthophis antarcticus* snake. 17th Congress of the International Society on Thrombosis and Haemostasis held at Washington, DC, USA, 1999.

44. Rani Parvathy V., Chary, K. V. R., **Kini, R. M.**, Govil, G.: A novel structural fold of a neurotoxin from Bungarus candidus: NMR characterization. XIII International Biophysics Congress held at New Delhi, India, 1999.

45. Gao, R., **Kini, R. M.** and Gopalakrishnakone, P.: Purification, properties and partial sequence of a haemoglobinuria-inducing phospholipase A_2 from the venom of Micropechis ikaheka. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

46. Gao, R., **Kini, R. M.** and Gopalakrishnakone, P.: Effects of Micropechis ikaheka venom on blood coagulation. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

47. Joseph, J. S., Chung, M. C. M., and **Kini, R. M.**: Effect of snake venom procoagulants on snake plasma: implications for the snake coagulation cascade. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

48. Joseph, J. S., Chung, M. C. M., Jeyaseelan, K. and **Kini, R. M.**: Purification and partial characterization of a factor Xa homologue from the venom of Stephen's banded snake (Hoplocephalus stephensi) venom. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

49. Ashok, B. R., Sasaki, T., Gopalakrishnakone, P., Sato, K., **Kini, R. M.** and Huat, B. B.: Isolation and characterization of a novel myotoxic peptide (Covalitoxin-I) from Corecnemius validus (Singapore tarantula) venom. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

50. Ashok, B. R., Sasaki, T., Gopalakrishnakone, P., Sato, K., **Kini, R. M.** and Huat, B. B.: Isolation, characterization and chemical synthesis of toxins from Singapore tarantula (Corecnemius validus). Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

51. **Kini, R. M.**, Rajaseger, G. and Chung, M. C. M.: Helveprins, a new family of proteins from snake venoms. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

52. **Kini, R. M.**: Structure-function relationships of three-finger toxins. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

53. Rajaseger, G. and **Kini, R. M.**: Purification and partial amino acid sequence of bucarin, a helothermine-like protein, from Malayan krait (Bungarus candidus) venom. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

54. Srinivasan, K. N., Gopalakrishnakone, P., **Kini, R. M.** and Jeyaseelan, K.: Hefutoxin1 and 2 isolated from the venom of scorpion Heterometrus fulvipes exhibits potassium channel blocking actions. Fifth Asia-Pacific Congress on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

55. Singh, S. B. Armugam, A. **Kini, R. M.** and Jeyaseelan K.: Cloning and characterization of cDNAs encoding phospholipases A_2 in Austrelaps superbus venom. Fifth Asia-Pacific Conference on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

56. Doorty, K. B., Wadsworth, J. D. F., Dunbar, B., **Kini, M.**, Yemul, V. L., Kamat, R., Gadre, S. V., Gopalakrishnakone, P., Jeyaseelan, K. and Strong, P. N.: Tamapin: a peptide with apamin-like activity from the venom of the Indian red

scorpion, Mesobuthus tamulus. Fifth Asia-Pacific Conference on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

57. Strong, P. N., De-Allie, F. A., Clark, G. S., Owen, D. G., Yemul, V. L., Kamat, R., Gadre, **Kini, R.**, Gopalakrishnakone, P. and Jeyaseelan, K.: A novel potassium channel toxin from the venom of the Indian red scorpion, Mesobuthus tamulus. Fifth Asia-Pacific Conference on Animal, Plant and Microbial Toxins held at Pattaya, Thailand, 1999.

58. Singh, S. B. **Kini, R. M.** and Jeyaseelan, K.: Purification and characterization of antiplatelet phospholipase A_2 from Austrelaps superbus. International Union of Biochemistry and Molecular Biology Congress held at Seoul, South Korea, 1999.

59. Clark, G. S., Strong, P. N., de Allie, F. A., Joseph, J. S., **Kini, R. M.,** Gopalakrishnakone, P. Jeyaseelan, K. and Owen, D.G.: A novel peptide toxin from Indian red scorpion blocks the voltage–gated cloned potassium channel, hkv1.6. British Pharmacological Society Meetings held at Nottingham, United Kingdom, 1999.

60. Clark, G. S., Strong, P. N., de Allie, F. A., Joseph, J. S., **Kini, R. M.,** Gopalakrishnakone, P. Jeyaseelan, K. and Owen, D.G.: A novel peptide toxin from Indian red scorpion blocks the voltage–gated cloned potassium channel, hkv1.6. American Society For Neuroscience held at Miami, USA. 1999. Brit. J. Pharmacol. **128**, 88.

61. **Kini, R. M.**, Rajaseger, G. and Chung, M. C. M.: Helveprins, a new family of proteins from snake venoms. 20th Hamburg-Blankenese Conference on Animal Venoms: From Neurotoxins to Clotting Factors – Structure, Signal Transduction, Clinical Implications held at Hamburg, Germany, 2000.

62. Balaji, R. A., Ohtake, A., Gopalakrishnakone, P., Sato, K., **Kini, R. M.**, Imoto, K. and Bay, B. H.: Purification and partial biochemical characterization of novel vasodilatory conotoxin from *Conus marmoreus* venom. 20th Hamburg-Blankenese Conference on Animal Venoms: From Neurotoxins to Clotting Factors – Structure, Signal Transduction, Clinical Implications held at Hamburg, Germany, 2000.

63. Joseph, J. S. and **Kini, R. M.**: Purification and Characterization of Bucaxase, a Factor X activator from *Bungarus candidus* (Malayan krait) venom. North Sea Conference on Thrombosis and Haemostasis held at Maastrict, The Netherlands, 2000. Haemostasis. **30**, 97, 2000.

64. Lee, T. L., Ti, L. K., Suresh, S. K. and **Kini, R. M.**: The role of chirality in the anti-coagulant property of local anesthetics. American Society of Anesthesiologists 2000 Annual Meeting held at San Francisco, USA, 2000.

65. Ti, L. K., Suresh, S. K., **Kini, R. M.** and Lee, T. L.: The effect of local anesthetics on the coagulation cascade. American Society of Anesthesiologists 2000 Annual Meeting held at San Francisco, USA, 2000.

66. Balaji, R. A., Ohtake, A., Gopalakrishnakone, P., Sato, K., **Kini, R. M.** and Bay, B. H.: A novel family of λ-conotoxin characterized from venom of marine snail Conus marmoreus. International Union of Biochemistry and Molecular Biology Congress held at Birmingham, UK, 2000.

67. Gao, R., **Kini, R. M.** and Gopalakrishnakone, P.: Isolation and characterization of a prothrombin activator, mikarin from Micropechis ikaheka venom. International Union of Biochemistry and Molecular Biology Congress held at Birmingham, UK, 2000.

68. Rao, V. S., Joseph, J. S. and **Kini, R. M.**: Amino acid sequence of a factor Xa-like protein from Stephen's banded snake (Hoplocephalus stephensi) venom. International Union of Biochemistry and Molecular Biology Congress held at Birmingham, UK, 2000.

69. Srinivasan, K. N., Nirthanan, S., Cheng, B., Gopalakrishnakone, P., **Kini, R. M.** and Gwee, M. C. E.: 3D Structure of bukatoxin, a peptide Isolated from the venom of the Chinese scorpion Buthus martensi Karsch, by molecular modelling. International Union of Biochemistry and Molecular Biology Congress held at Birmingham, UK, 2000.

70. Joseph, J. S., Rao, V. S. and **Kini, R. M.**: Prothrombin Activators from Snake Venoms and Blood Coagulation Factors. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

71. Rao, V. S. and **Kini, R. M.**: Pseutarin, a Group III prothrombin activator from Pseudonaja textiles structurally and functionally similar to the mammalian prothrombinase complex. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

72. Nirthanan, S., Gao, R., Gopalakrishnakone, P., Gwee, M. C. E., **Kini, R. M.** and Cheah, L. S.: Purification and pharmacological characterization of a post-synaptic neurotoxin from Micropechis ikaheka venom. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

73. Joseph, J. S., Chung, M. C. M. and **Kini R. M.**: Trocarin, a factor Xa-like protein from *Tropidechis carinatus* venom, causes inflammation in the mouse paw. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

74. Nirthanan, S., Gopalakrishnakone, P., Gwee, M. C. E., Khoo, H. E. Cheah, L. S. and **Kini, R. M.**: Candoxin, a three-finger toxin isolated from *Bungarus candidus* snake venom, is a reversible, post-synaptic neuromuscular blocker of nicotinic acetylcholine receptors. XIII World Congress on Animal, Plant and

Microbial Toxins held at Paris, France, 2000. **Best Oral Presentation Award**.

75. Joseph, J. S., Rao, V. S. and **Kini, R. M.**: Factor Xa-like proteins from snake venoms: structure-function relationships. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

76. Srinivasan, K. N., Nirthanan, S., Betty, C., Gopalakrishnakone, P., **Kini, R. M.** and Gwee, M. C. E.: Biochemical and pharmacological characterisation of a sodium channel neurotoxin isolated from the venom of the Chinese scorpion *Buthus martensi* Karsch. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

77. Srinivasan, K. N., Chia. B. S., Ng, W. F., Gopalakrishnakone, P., Bowie, J. H., Sato, K., Ohtake, A. and **Kini, R. M.**: Solution structure of HfTx1, a peptide toxin isolated from the venom of the Malaysian black scorpion with possible potassium channel blocking activity. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

78. Balaji, R. A., Ohtake, A., Nirthanan, S., Gopalakrishnakone, P., Sato, K., **Kini, R. M.**, Quayle, J. and Bay, B. H.: New mollusc specific μ-conotoxin from *conus marmoreus* venom. XIII World Congress on Animal, Plant and Microbial Toxins held at Paris, France, 2000.

79. Sato, K., Ohtake, A., Balaji, R. A., Gopalakrishnakone, P., **Kini, R. M.**, and Bay, B. H.: Disulfide bond pattern of a λ-conotoxin, a novel toxin from *Conus marmoreus*. 37th Japanese Peptide Symposium held at Nagoya, Japan, 2000.

80. Balaji, R. A., Ohtake, A., Gopalakrishnakone, P., Sato, K., **Kini, R. M.**, Seow, K. T. and Bay, B. H.: Biochemical characterization and molecular modeling of novel λ-Conotoxins isolated from the Venom of *Conus marmoreus.* Congress of FAOBMB held at Beijing, China, 2000.

81. **Kini, R. M.**: Lessons from toxins: understanding structure-function relationships of proteins. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

82. Balaji, R. A., Ohtake, A., Gopalakrishnakone, P., Sato, K., **Kini, R. M.**, Seow, K. T. and Bay, B. H.: λ-Conotoxins – new family of conotoxins: structural and functional features. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

83. Rao, V. S. and **Kini, R. M.**: Structural and functional similarities between pseutarin, a group III prothrombin activator from Pseudonaja textilis venom and mammalian prothrombinase complex. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

84. Nirthanan, S., Gopalakrishnakone, P., Gwee, M. C. E., Khoo, H. E., Cheah, L. S. and **Kini, R. M.**: Candoxin, a novel three-finger neurotoxin isolated from Malayan krait binds reversibly and competitively to post-synaptic nicotinic acetylcholine receptors. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

85. Kolatkar, P. R., Kuhn, P., Deacon, A. and **Kini, R. M.**: Collaboratories allow global access to international research resource for structural biology. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

86. Torres, A. M., **Kini, R. M.** and Kuchel, P. W.: NMR structure of bucandin, a presynaptic neurotoxin from Malayan krait. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

87. Parvathy, V. R., Chary, K. V. R., **Kini, R. M.** and Govil. G.: Three-dimensional structure of candoxin, a neurotoxin purified from Bungarus candidus venom. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

88. Srinivasan, K. N., Chia. B. S., Sasaki, T., Sato, K., Bowie, J. H., **Kini, R. M.** and Gopalakrishnakone, P.: Isolation, purification, complete amino acid sequencing and solution NMR structure of a peptide toxin from the venom of the Malaysian black scorpion Heterometrus fulvipes. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

89. Joseph, J. S., Tsang, P. F., Shoba, T., Wong, F. W. S., Chung, M. C. M. and **Kini, R. M.**: Structure-function relationships of trocarin, a multifunctional factor Xa homologue from Tropidechis carinatus venom. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

90. **Kini, R. M.**: Proline marks the protein-protein interaction sites: theoretical analysis and experimental evidence. International Symposium on Structural Biology, Proteomics, Protein Folding and Design held at Singapore, 2000.

91. Nirthanan, S., Joseph, J. S., Gopalakrishnakone, P., Gwee, M. C. E., Khoo, H. E., and **Kini, R. M.**: A neurotoxin (candoxin) isolated from the venom of the Malayan krait Bungarus candidus, significantly potentiates the activity of acetylcholinesterase in the venom. Federation of American Societies for Experimental Biology: Experimental Biology 2001 Conference held at Orlando, Florida, USA. FASEB Journal, **15**, 695.16, 2001

92. Balaji, R. A., Sasaki, T., Gopalakrishnakone, P., Sato, K., **Kini, R. M.** and Bay, B. H.: Antinociceptive activity of a novel spider toxin, covalitoxin-1 characterized on chemical and thermal models of nociception in mice.

Federation of American Societies for Experimental Biology: Experimental Biology 2001 Conference held at Orlando, Florida, USA, 2001.

93. Tan, D. C.-W., **Kini, R. M.**, Seetharama, J. D. S., Lim, D. K.-F., Xin, L. and Ge, R. W.: A small peptide derived from FLT-1 (VEGFR-1) functions as an angiogenic inhibitor. Molecular Biology and New Therapeutic Strategies: Cancer Research in the 21st century held at Hawaii, USA, 2001.

94. Rao, V. S. and **Kini, R. M.**: Structural and functional similarity between pseutarin - a snake venom group C prothrombin activator from Pseudonaja textilis, and mammalian FXa-FVa complex. The International Conference on Fundamental Sciences: Biological and Chemical Sciences held at Singapore 2001.

95. Lakshminarayanan, R., Valiyaveettil, S., Rao, V. S. and **Kini, R. M.**: Purification and characterization of proteins from goose eggshell and their role in calcium carbonate deposition. The International Conference on Fundamental Sciences: Biological and Chemical Sciences held at Singapore 2001.

96. Joseph, J. S., Chung, M. C. M. and **Kini, R. M.**: Structure-function relationships of trocarin, a prothrombin activator from Tropidechis carinatus snake venom: Identification of site of interaction with factor Va. The International Conference on Fundamental Sciences: Biological and Chemical Sciences held at Singapore 2001.

97. Rao, V. S. and **Kini, R. M.**: Structural and functional similarity between pseutarin - a snake venom group III prothrombin activator from Pseudonaja textilis, and mammalian prothrombinase complex. XVIII Congress of the International Society on Thrombosis and Haemostasis held at Paris, France 2001. **Selected for Oral Presentation; Young Investigator Travel Award and Reach-the-World Travel Award.**

98. Joseph, J. S., Chung, M. C. M. and **Kini, R. M.**: Structure-function relationships of trocarin, a prothrombin activator from Tropidechis carinatus snake venom: Identification of site of interaction with factor Va. XVIII Congress of the International Society on Thrombosis and Haemostasis held at Paris, France 2001. **Presidential Prize.**

99. **Kini, R. M.**, Rao, V. S. and Joseph, J. S.: Procoagulant proteins from snake venoms. International Conference on Exogenous Factors Affecting Thrombosis and Haemostasis held at Paris, France 2001.

100. Rao, V. S., Joseph, J. S. and **Kini, R. M.**: Complete amino acid sequence of a factor Xa-like protein from Stephen's banded snake (Hoplocephalus stephensi) venom. International Conference on Exogenous Factors Affecting Thrombosis and Haemostasis held at Paris, France 2001.

101. Joseph, J. S. and **Kini, R. M.**: Snake venom prothrombin activators homologous to blood coagulation factor Xa. International Conference on Exogenous Factors Affecting Thrombosis and Haemostasis held at Paris, France 2001.

102. **Kini, R. M.**, and Joseph, J. S.: Structure-function relationships of trocarin, a prothrombin activator from Tropidechis carinatus snake venom. 7th Symposium: Pan-American Section of the International Society on Toxinology on Animal, Plant and Microbial Toxins held at Charlottesville, Virginia, USA 2001.

103. Nirthanan, S., Gopalakrishakone, P., Gwee, M. C. E., Khoo, H. E., Cheah, L.S. and **Kini, R. M.**: Selective in vivo neuromuscular blocking effects of candoxin, a novel three-finger α-neurotoxin from the Malayan krait. 7th Symposium: Pan-American Section of the International Society on Toxinology on Animal, Plant and Microbial Toxins held at Charlottesville, Virginia, USA 2001.

104. Rajaseger, G., Lu, J., Moochhala, S. and **Kini, R. M.**: Amino acid sequencing and histopathological studies of bucarin, a helveprin from Bungarus candidus (Malayan krait) venom. 7th Symposium: Pan-American Section of the International Society on Toxinology on Animal, Plant and Microbial Toxins held at Charlottesville, Virginia, USA 2001.

105. Joseph, J. S. and **Kini, R. M.**: Development of anticoagulant peptides interfering with prothrombinase complex assembly based on structure-function studies of procoagulant protein from snake venom. BioMedical Asia 2001 – BioMedical Sciences in the Post Genomic Era: Challenges and Opportunities held at Singapore, Singapore 2001.

106. Rao, V. S., Joseph, J. S. and **Kini, R. M.**: Structural comparison between trocarin and hopsarin, factor Xa homologues from snake venom. BioMedical Asia 2001 – BioMedical Sciences in the Post Genomic Era: Challenges and Opportunities held at Singapore, Singapore 2001.

107. **Kini, R. M.**, Rao, V. S. and Joseph, J. S.: Prothrombin activators from Australian snake venoms. 6th Asia-Pacific Congress on Animal, Plant & Microbial Toxins held at Cairns, Australia 2002.

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131. Sivaraman, T. and **Kini, R. M.**: Structure and folding of buntoxin, a novel protein toxin purified from Bungarus candidus venom. Second International Conference on Structural Biology and Functional Genomics held in Singapore, 2002.

132. Jacob, B., Joseph, J. S. and **Kini, R. M.**: Interaction of novel anticoagulant peptides with blood coagulation factor Va. Annual Indian Biophysical Society meeting held in Rourkee, **India**, 2003.

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carinatus. Fourth Sino-Singapore Conference in Biotechnology held in Singapore, 2003.

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153. **Kini, R. M.**: Prothrombin activators from snake venoms and their structural similarity to blood coagulation factors. Third National Symposium on Venoms and Toxins held in Mysore, India, 2004.

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155. **Kini, R. M.**: Serine proteinases affecting blood coagulation and fibrinolysis from snake venom. XVII International Congress on Fibrinolysis and Proteolysis held in Melbourne, Australia, 2004.

156. **Kini, R. M.**: Exogenous and endogenous prothrombin activator systems in Australian snakes. 50th Scientific and Standardization Committee Meeting of the International Society on Thrombosis and Haemostasis held in Venice, Italy, 2004.

157. **Kini, R. M.**, Reza M. A. and Le T. N. M.: Two parallel prothrombin activator systems in Australian snakes. 15th European Symposium on Animal, Plant and Microbial Toxins held in Brdo, Slovenia, 2004.

158. **Kini, R. M.**: Search for new toxins from snake venoms. VIII Symposium of the Pan American Society on Toxinology and VIII Congress of Brazilian Society of Toxinology held in Angra dos Reis, Rio de Janeiro, Brazil, 2004.

159. **Kini, R. M.**: Prothrombin activators from snake venoms. Third Asia-Pacific Congress on Thrombosis and Hemostasis held in Bangkok, Thailand, 2004.

160. **Kini, R. M.**: Parallel prothrombin activator systems in Australian snakes. 5th Sino-Singapore Conference on Life Science and Biotechnology held in Wuhan, China, 2004.

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163. Li, M, Fry, B. G. and **Kini, R. M.**: Putting the brakes on snake venom evolution: the unique molecular evolutionary patterns of Aipysurus eydouxii (Marbled sea snake) Phospholipase A_2 toxins. Third International Conference on Structural Biology and Functional Genomics held at Singapore, 2004.

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167. **Kini, R. M.**: Anticoagulant proteins from snake venoms. 51st Scientific and Standardization Committee Meeting of the International Society on Thrombosis and Haemostasis held in Sydney, Australia, 2005.

168. **Kini, R. M.**: Prothrombin Activators from Snake Venoms Similar to Mammalian Blood Coagulation Factors. XX Congress of the International Society on Thrombosis and Haemostasis held in Sydney, Australia, 2005.

169. Reza, M. A., Swarup, S. and **Kini, R. M.**: Two Isoforms of Factor X Is Produced in the Liver of Pseudonaja textilis. XX Congress of the International Society on Thrombosis and Haemostasis held in Sydney, Australia, 2005.

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171. Banerjee, Y. and **Kini, R. M.**: A Novel Anticoagulant Protein – Hemextin A, from the Venom of Hemachatus haemachatus (African Ringhals Cobra) That inhibits the Extrinsic Tenase Activity and Its Synergistic Interaction with A Three-finger Toxin, Hemextin B. XX Congress of the International Society on Thrombosis and Haemostasis held in Sydney, Australia, 2005.

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176. **Kini, R. M.**: From toxins to therapeutics: Development of therapeutic agents based on the structure of snake venom toxins. Pharma Indochina IV Conference held in Ho Chi Minh City, Viet Nam, 2005.

177. **Kini, R. M.**: Toxin folds in snake venom proteins. XV World Congress on Animal, Plant and Microbial Toxins held in Glasgow, UK, 2006.

178. **Kini, R. M.**: Origin and evolution of snake venom prothrombin activators. XV World Congress on Animal, Plant and Microbial Toxins held in Glasgow, UK, 2006.

179. **Kini, R. M.**: Nonenzymatic anticoagulant proteins from snake venom. XXIst Congress of the International Society of Thrombosis and Haemostasis held in Geneva, Switzerland, 2007.

180. Nguyen, T., Doley, R.,Md Abu Reza and **Kini, RM.**: cDNA library of the venom glands and toxin profile of *Austrelaps labialis* venom. Second Medicinal Chemistry Seminar of AA Science Platform Program entitled: Development for the Medicinal Chemistry Based on Biologically Active Natural Products in the Subtropical Zone held in Phuket, Thailand, 2007.

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