

SASI'S DNA PUBLICATIONS LIST

available on this site

This
site
#

- Lakshminarayanan, A.V. & Sasisekharan, V. Stereochemistry of nucleic acids and polynucleotides. II. Allowed conformations of the monomer unit for different ribose puckerings. *Biochim Biophys Acta* **204**, 49-59 (1970).
- Renugopalakrishnan, V., Lakshminarayanan, A.V. & Sasisekharan, V. Stereochemistry of nucleic acids and polynucleotides. 3. Electronic charge distribution. *Biopolymers* **10**, 1159-1167 (1971).
- 1 Sasisekharan, V., Pattabiraman, N. Double stranded polynucleotides: two typical alternative conformations for nucleic acids, *Current Science*, **45(22)** 779-783 (1976).
- 2 Sasisekharan, V., Pattabiraman, N., Gupta, Goutam. An Alternative Structure for DNA and its Relevance to DNA Supercoiling, *Current Science*, **46(22)** 763-764 (1977)
- 3 Gupta, G. & Sasisekharan, V. Theoretical calculations of base-base interactions in nucleic acids: I. Stacking interactions in free bases. *Nucleic Acids Res* **5**, 1639-1653 (1978).
- 4 Gupta, G. & Sasisekharan, V. Theoretical calculations of base-base interactions in nucleic acids: II. Stacking interactions in polynucleotides. *Nucleic Acids Res* **5**, 1655-1673 (1978).
- 5 Sasisekharan, V., Pattabiraman, N. & Gupta, G. Some implications of an alternative structure for DNA. *Proc Natl Acad Sci U S A* **75**, 4092-4096 (1978).
- 6 Sasisekharan, V. & Pattabiraman, N. Structure of DNA predicted from stereochemistry of nucleoside derivatives. *Nature* **275**, 159-162 (1978).
- 7 Sasisekharan, V., Gupta, Goutam. On the alternative structure of DNA: Role of syn conformation of the bases, *Current Science*, **49(2)** 43-48 (1980).
- Gupta, G., Bansal, M. & Sasisekharan, V. Reversal of handedness in DNA: a stable link between RU and LZ helices. *Biochem Biophys Res Commun* **97**, 1258-1267 (1980).
- Gupta, G., Bansal, M. & Sasisekharan, V. Conformational flexibility of DNA: polymorphism and handedness. *Proc Natl Acad Sci U S A* **77**, 6486-6490 (1980).
- Gupta, G., Bansal, M. & Sasisekharan, V. A novel Z-structure for poly d(GC).poly d(GC). *Biochem Biophys Res Commun* **95**, 728-733 (1980).
- 8 Pattabiraman, N., Rao, S.N. & Sasisekharan, V. Is 3'-nucleotide rigid? *Nature* **284**, 187-188 (1980).
- Rao, S.N. & Sasisekharan, V. Conformational studies on 3'-nucleotides: significance of the flexibility of nucleotides. *Indian J Biochem Biophys* **18**, 303-310 (1981).
- Sasisekharan, V., Brahmachari, Samir K. B to Z Transition in DNA Fibre: The question of handedness of the duplex, *Current Science*, **50(1)** 10-13 (1981).
- 9 Gupta, G., Rao, S.N. & Sasisekharan, V. Conformational flexibility of DNA: an extension of the stereochemical guidelines. *FEBS Lett* **150**, 424-428 (1982).
- Ramaswamy, N., Bansal, M., Gupta, G. & Sasisekharan, V. Left-handed helices for DNA: studies on poly[d(I-C)]. *Proc Natl Acad Sci U S A* **79**, 6109-6113 (1982).
- Datta, S. & Sasisekharan, V. Structure of DNA-binding to hydroxyapatite as a probe. *Indian J Biochem Biophys* **19**, 71-74 (1982).
- Gupta, G. et al. Poly(dA-dT).poly(dA-dT) in low salt appears to be a left-handed B-helix combined use of chemical theory, fiber diffraction and NMR spectroscopy. *J Biomol Struct Dyn* **1**, 395-416 (1983).
- Rajagopalan, M., Gupta, G. & Sasisekharan, V. Base-base interactions in nucleic acids containing A-T base pairs. Structure of poly[d(A-T)]. *FEBS Lett* **159**, 285-289 (1983).
- Ramaswamy, N., Bansal, M., Gupta, G. & Sasisekharan, V. Structure of D-DNA: 8-fold or 7-fold helix? *EMBO J* **2**, 1557-1560 (1983).
- Sasisekharan, V. Left-handed DNA duplexes. *Cold Spring Harb Symp Quant Biol* **47 Pt 1**, 45-52 (1983).
- Datta, S., Parrack, P.K. & Sasisekharan, V. Fibre diffraction of lithium DNA shows structural variability and deviation from a regular helical structure for the B-form. *FEBS Lett* **176**, 110-114 (1984).
- Rao, S.N. & Sasisekharan, V. Conformations of 3-methylpurine nucleosides: implications on the structure of DNA duplexes. *Indian J Biochem Biophys* **21**, 222-226 (1984).
- 10 Parrack, P.K., Datta, S. & Sasisekharan, V. A detailed study of Li-DNA fibres at various salt concentrations reveals a non-helical B-DNA and a possible similarity of solution and solid state structures. *J Biomol Struct Dyn* **2**, 149-157 (1984).
- Conrad, M., Brahmachari, S.K. & Sasisekharan, V. DNA structural variability as a factor in gene expression and evolution. *Biosystems* **19**, 123-126 (1986).
- Rao, S.N. & Sasisekharan, V. Conformations of dinucleoside monophosphates in relation to duplex DNA structures. *Biopolymers* **25**, 17-30 (1986).
- Majumder, K., Brahmachari, S.K. & Sasisekharan, V. Sequence dependence and role of 5'-phosphate in the B to Z transition. *FEBS Letters* **198**, 240-244 (1986).