

Shu Yang

Patents:

1. Yang S. Tang, Y., Xiang J. and Xu, G. New Application of Sanguinarine. Chinese Patent. 200810105012.5
2. Yang S. Tang, Y., Xiang J. and Xu, G. New Application of Nitidine. Chinese Patent. 200810105013.X
3. Yang S., Xiang J. and Xu, G. Recognizing human telomeres and c-kit gene by using Nitidine. Chinese Patent. 200910088405.4

Publications:

1. **Yang, S.**, Xiang, J., Yang, Q., Zhou, Q., Zhang, X., Li, Q., Tang, Y., Xu, G. (2011) An important functional group, benzo[1,3]dioxole, of alkaloids induces the formation of the human telomeric DNA G-quadruplex *Chinese Science Bulletin* 56 (7), pp. 613-617
2. Yang, Q., Xiang, J.-F., **Yang, S.**, Li, Q., Zhou, Q., Guan, A., Li, L., Zhang, Y., Zhang, X., Zhang, H., Tang, Y., Xu, G. Verification of intramolecular hybrid/parallel G-quadruplex structure under physiological conditions using novel cyanine dye H-aggregates: Both in solution and on Au film (2010) *Analytical Chemistry*, 82 (22), pp. 9135-9137.
3. Yang, Q., Zhou, Q., Zhang, X., Xiang, J., Li, Q., Zhang, H., Xu, G., **Yang, S.**, Guan, A., Tang, Y. Recognizing hybrid/mixed G-quadruplex in human telomeres by using a cyanine dye supramolecule with confocal laser scanning microscopy (2010) *Chinese Journal of Chemistry*, 28 (7), pp. 1126-1132.
4. **Yang, S.**, Xiang, J., Yang, Q., Li, Q., Zhou, Q., Zhang, X., Tang, Y., Xu, G.. (2010) "Formation of Human Telomeric G-quadruplex Structures Induced by the Quaternary Benzophenanthridine Alkaloids: *Sanguinarine*, *Nitidine*, and *Chelerythrine*" *Chin. J. Chem.*, 28 (5), pp. 771-780
5. Yang, Q., Xiang, J., **Yang, S.**, Li, Q., Zhou, Q., Guan, A., Zhang, X., Zhang, H., Tang, Y. and Xu, G. (2010) Verification of specific G-quadruplex structure by using a novel cyanine dye supramolecular assembly: II. The binding characterization with specific intramolecular G-quadruplex and the recognizing mechanism. *Nucleic Acids Res.*, 38, 1022-1033.
6. **Yang, S.**, Liu, Y., Yang, Q., Xiang, J., Tang, Y., Xu, G. (2010) The anti-cancer molecular mechanism of *Macleaya cordata*: *Sanguinarine* and *Chelerythrine* can induce human telomeric DNA to form G-quadruplex. *Chin. Trad. Herb. Drugs.*, Accepted.
7. **Yang, S.**, Xiang, J., Yang, Q., Zhou, Q., Zhang, X., Li, Q., Tang, Y., Xu, G. (2010) Distinct G-quadruplex structures of human telomeric DNA formed by the induction of *Sanguinarine* and *Nitidine* under salt-deficient condition. *Fitoterapia*, 81 (8), pp. 1026-1032
8. Yang, Q., Xiang, J., **Yang, S.**, Li, Q., Zhou, Q., Guan, A., Lin, L., Zhang, X., Zhang, H., Tang, Y. and Xu, G. (2010) Verification of Specific G-quadruplex Structure under Physiological Condition by Using Novel Cyanine Dye H-aggregates: both in Solution and on Au Film. *Angew. Chem.-Int. Edit.*, Revised.
9. Yang, Q., Xiang, J., **Yang, S.**, Zhou, Q., Li, Q., Tang, Y. and Xu, G. (2009) Verification of specific G-quadruplex structure by using a novel cyanine dye supramolecular assembly: I. Recognizing mixed G-quadruplex in human telomeres. *Chem. Commun.*, 1103-1105.
10. Li, Q., Xiang, J., Li, X., Chen, L., Xu, X., Tang, Y., Zhou, Q., Li, L., Zhang, H., Sun, H., Guan, A., Yang, Q., **Yang, S.** and Xu, G. (2009) Stabilizing parallel G-quadruplex DNA by a new class of ligands: Two non-planar alkaloids through interaction in lateral grooves. *Biochimie*, 91, 811-819.
11. Zhang, X., Xiang, J., Tian, M., Yang, Q., Sun, H., **Yang S.**, and Tang, Y. (2009) Formation of an Intramolecular G-Quadruplex of Human Telomere Induced by Poly(l-lysine) under Salt-Deficient Conditions, *J. Phys. Chem. B*, 2009, 113 (21), 7662-7667.

12. Zhou, Q., Li, L., Xiang, J., Tang, Y., Zhang, H., **Yang, S.**, Li, Q., Yang, Q. and Xu, G. (2008) Screening Potential Antitumor Agents from Natural Plant Extracts by G-Quadruplex Recognition and NMR Methods. *Angew. Chem.-Int. Edit.*, 47, 5590-5592.
13. Zhang, G., Liu, M., **Yang, S.** (2008) Scientific identification methods and techniques of Chinese Medicine: security detection of common used Chinese Medicine. **Chemical Industry Press**. ISSN: 122-02113-7.