



## Bioorganic & Medicinal Chemistry Volume 22, Issue 16, 2014

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### Unlocking Nature through Chemistry

Edited by:

Prof. Shankar Balasubramanian

## Contents

### Preface

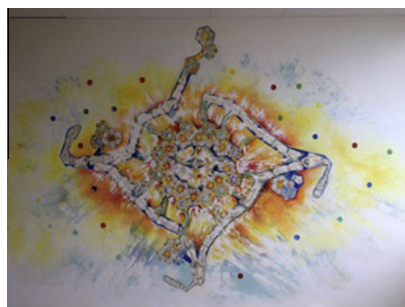
Stephen Neidle

p 4355

### Chemical biology on the genome

Shankar Balasubramanian\*

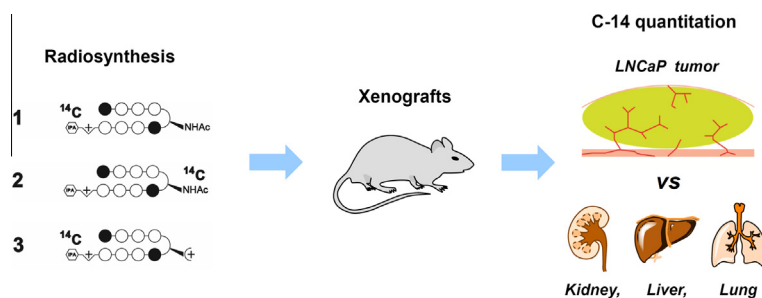
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### A C-14 labeled Py-Im polyamide localizes to a subcutaneous prostate cancer tumor

Jevgenij A. Raskatov, James W. Puckett, Peter B. Dervan\*

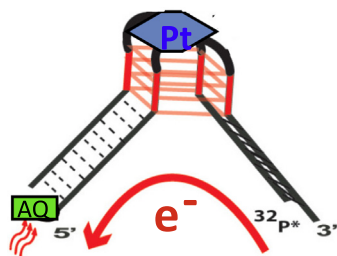
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**Mechatronic DNA devices driven by a G-quadruplex-binding platinum ligand**

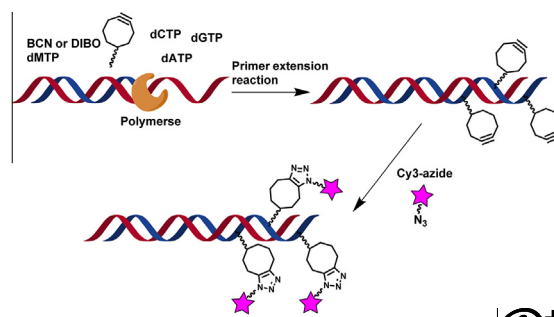
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Yu Chuan Huang, Katherine J. Castor, Hanadi F. Sleiman, Dipankar Sen\*

**Enzymatic incorporation and fluorescent labelling of cyclooctyne-modified deoxyuridine triphosphates in DNA**

pp 4384–4390

Xiaomei Ren, Marta Gerowska, Afaf H. El-Sagheer, Tom Brown\*

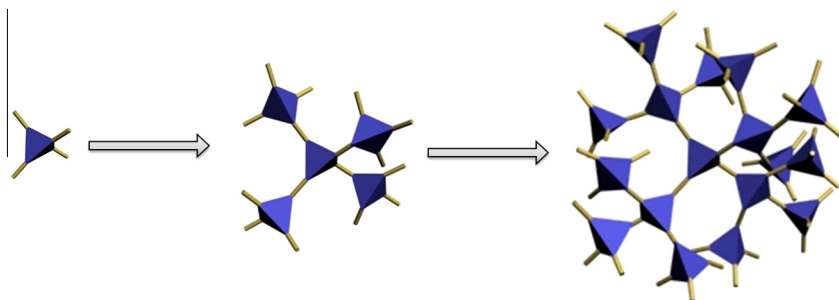


BCN and DIBO modified deoxyuridine triphosphates were successfully incorporated into DNA at multiple sites by enzyme-mediated primer extension and the polymerase chain reaction (PCR). Efficient fluorescent labelling of the BCN-DNA and DIBO-DNA with Cy3-azide was demonstrated.

**Tetrahedron DNA dendrimers and their encapsulation of gold nanoparticles**

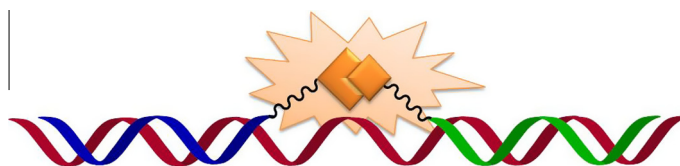
pp 4391–4394

Tao Zhou, Yijie Wang, Yuanchen Dong, Chun Chen, Dongsheng Liu, Zhongqiang Yang\*

**Oligonucleotide-templated reactions based on Peptide Nucleic Acid (PNA) probes: Concept and biomedical applications**

pp 4395–4398

Youngeun Choi, Gavin Metcalf, Mazen Haj Sleiman, Douglas Vair-Turnbull, Sylvain Ladame\*



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