

ANTICANCER BIOCONJUGATION

NEW!

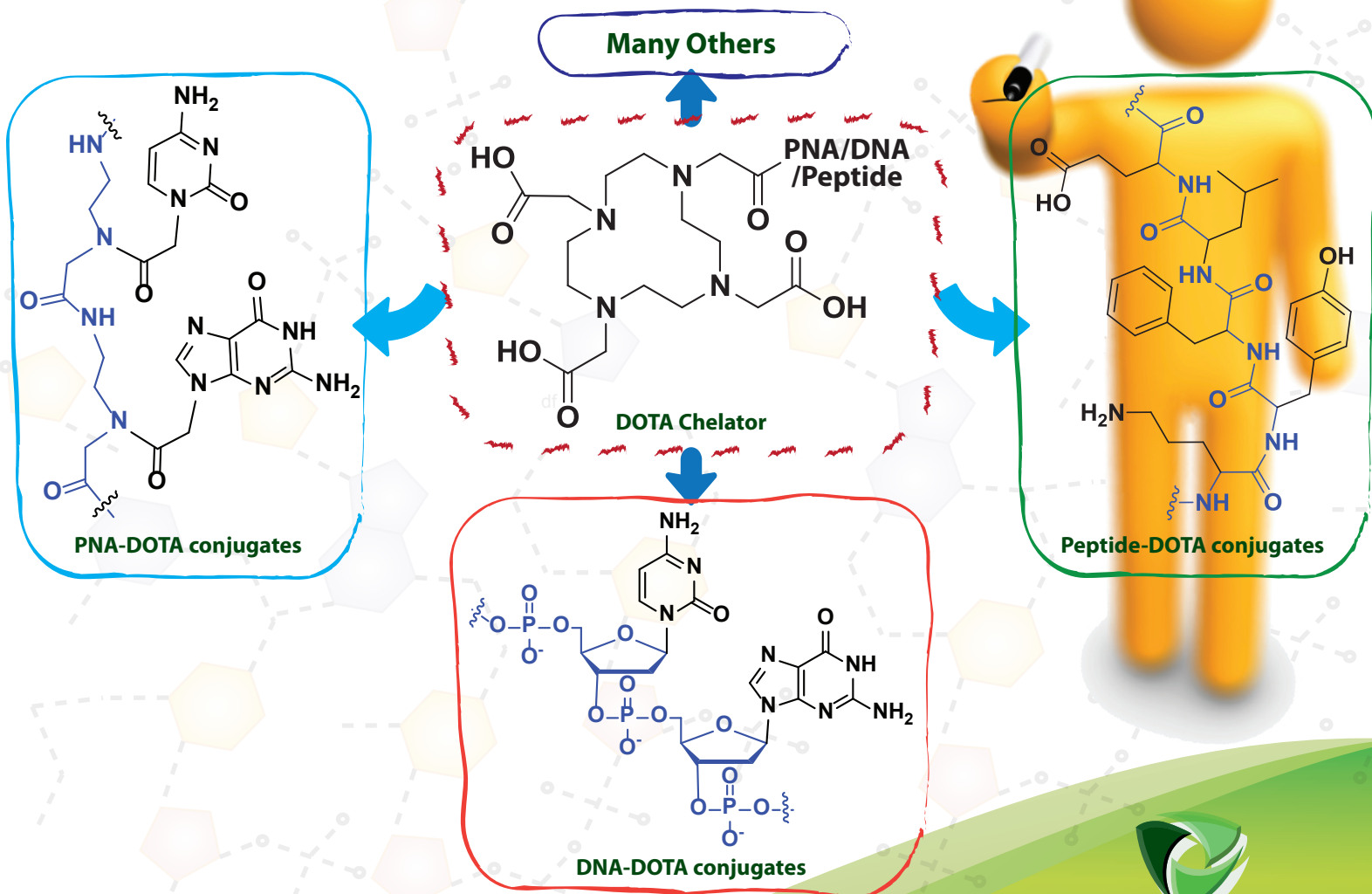
Metal Chelating Agent

Tools for Magnetic Resonance Imaging and Therapy

Imaging agents consisting of metal chelating compounds have been used extensively in the modification of targeting agents for the in vivo detection of specific cells, organs or vascular systems. The metal group on the bifunctional chelating agents forms a stable complex with radioactive elements or contrast-enhancing agents, which can be imaged using radio-imaging techniques, magnetic resonance imaging (MRI), or as targeted radiotherapy¹. For example, the bifunctional chelator, such as DOTA, can be conjugated in a solution with peptides, antibodies and oligonucleotides. One popular function of DOTA labeled oligonucleotides or peptides is to image various tumors^{2,3}.

Using our expertise in bioconjugation chemistry, Bio-Synthesis provides cross-linking of DOTA, DTPA, NOTA, TETA, DTTA and DFA to synthetic biomolecules and other polymeric compounds for the cancer researcher seeking the development of radiopharmaceuticals and contrast-enhancing agents.

Now Bringing Imaging Closer to You!



1. M. Behe et al. *In Vivo*, 2010, 25, 55-59.

2. S. Lee, J. Xie and X. Chen, *Chem Rev* 2010, 110, 3087-3111.

3. M. R. Lewis et al. *Bioconjugate Chem.* 2002, 13, 1176-1180.

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612 E. Main Street, Lewisville, TX 75057 USA