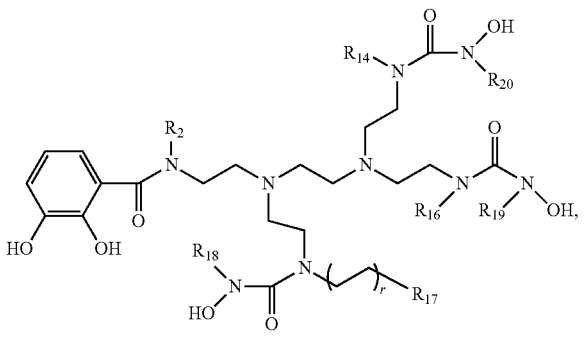
wherein

R_2, R_{14}, R_{16}, R_{18}, and R_{19}, individually, include H, OH, or an alkyl group having from 1 to 10 carbon atoms;

R_{17} includes NH_2, C(═O)OH, maleimide, dibromo-maleimide, isothiocyanate, alkyne, or azide; and

r is from 0 to 4.

[0328] 27. A composition of embodiment 23, including a structure:



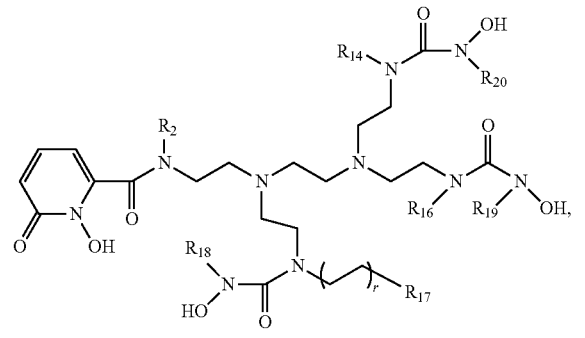
wherein:

R_2, R_{14}, R_{16}, R_{18}, R_{19}, and R_{20}, individually, include H, OH, or an alkyl group having from 1 to 10 carbon atoms;

R_{17} includes NH_2, C(═O)OH, maleimide, dibromo-maleimide, isothiocyanate, alkyne, or azide; and

r can be from 0 to 4.

[0329] 28. A composition of embodiment 23, including a structure:



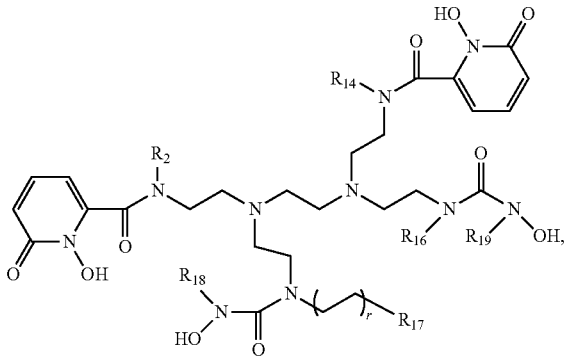
wherein:

R_2, R_{14}, R_{16}, R_{18}, R_{19}, and R_{20}, individually, include H, OH, or an alkyl group having from 1 to 10 carbon atoms;

R_{17} includes NH_2, C(═O)OH, maleimide, dibromo-maleimide, isothiocyanate, alkyne, or azide; and

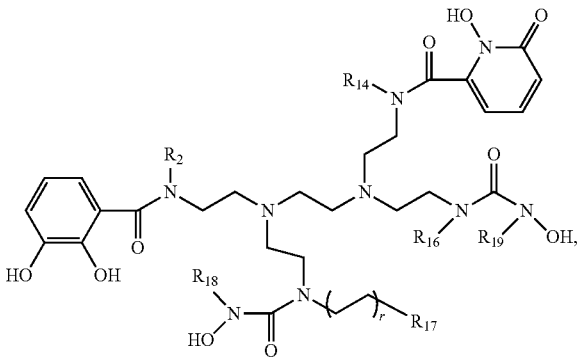
r can be from 0 to 4.

[0330] 29. A composition of embodiment 23, including a structure:



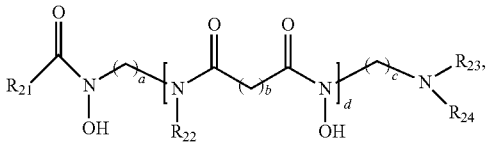
wherein:
R_2, R_{14}, R_{16}, R_{18}, and R_{19}, individually, include H, OH, or an alkyl group having from 1 to 10 carbon atoms;
R_{17} includes NH_2, C(═O)OH, maleimide, dibromo-maleimide, isothiocyanate, alkyne, or azide; and
r is from 0 to 4.

[0331] 30. A composition of embodiment 23, including a structure:



wherein:
R_2, R_{14}, R_{16}, R_{18}, and R_{19}, individually, include H, OH, or an alkyl group having from 1 to 10 carbon atoms;
R_{17} includes NH_2, C(═O)OH, maleimide, dibromo-maleimide, isothiocyanate, alkyne, or azide;
r is from 0 to 4.

[0332] 31. A composition, including a structure:



wherein:
R_{21} and R_{22}, individually, include H, OH, or an alkyl group having from 1 to 10 carbon atoms;
R_{23} includes H, OH, an alkyl group having from 1 to 10 carbon atoms, or $(CH_2)_eR_a$, where R_a is NH_2, C(═O)OH, maleimide, dibromo-maleimide, isothiocyanate, alkyne, or azide;