

In the Claims

1. (currently amended) A polymer ~~comprising~~ consisting of a plurality of repeating diene ~~monomers~~ monomer units, each of the repeating diene monomer units having coupled thereto at least one biologically active molecule through at least one non-amide linker, ~~wherein to a~~ carbons coupled to the linker and the at least one biologically active molecule of each of the repeating dienes of the repeating diene monomer unit, wherein the carbons coupled to the biologically active molecule of the adjacent repeating diene monomer units are separated by $2n+2$ other carbons along the polymer's backbone, where n is the number of alkylene carbons in each of two alkylene carbon backbone spacers residing between each ene and the carbon coupled to the biologically active molecule of the repeating diene monomer unit ~~linker of the repeating dienes~~.

2. (previously presented) The polymer of claim 1, wherein the linker comprises at least one moiety selected from the group consisting of an ester, carbonate, carbamate, and ether.

3. (previously presented) The polymer of claim 1, wherein the at least one moiety is an ether moiety and a carbamate moiety.

4. (currently amended) The polymer of claim 1, wherein the repeating diene monomer unit is selected from the group consisting of 3,3 acid, 6,6 acid, 9,9 acid, and 18,18 acid.

5. (currently amended) The polymer of claim 1, wherein the repeating diene monomer unit further comprises at least one spacer interposed between the biologically active molecule and the linker.

6. (original) The polymer of claim 5, wherein the spacer is at least one moiety selected from the group consisting of methoxy and glycol.

7. (original) The polymer of claim 6, wherein the spacer is at least one ethylene glycol

moiety.

8. (original) The polymer of claim 6, wherein the spacer is diethylene glycol or triethylene glycol.

9. (previously presented) The polymer of claim 5, wherein the spacer is at least one alkyl or diol moiety.

10. (previously presented) The polymer of claim 5, wherein the at least one linker, the at least one spacer, or both are degradable by enzymatic cleavage, chemical hydrolysis, or both.

11. (previously presented) The polymer of claim 1, wherein the biologically active molecule is selected from the group consisting of analgesics, anesthetics, anti-inflammatory agents, anthelmintics, anti-arrhythmic agents, antiasthma agents, antibiotics, anticancer agents, anticoagulants, antidepressants, antidiabetic agents, antiepileptics, antihistamines, antitussives, antihypertensive agents, antimuscarinic agents, antimycobacterial agents, antineoplastic agents, antioxidant agents, antipyretics, immunosuppressants, immunostimulants, antithyroid agents, antiviral agents, anxiolytic sedatives (hypnotics and neuroleptics), astringents, bacteriostatic agents, beta-adrenoceptor blocking agents, blood products and substitutes, bronchodilators, buffering agents, cardiac inotropic agents, chemotherapeutics, contrast media, corticosteroids, cough suppressants (expectorants and mucolytics), diagnostic agents, diagnostic imaging agents, diuretics, dopaminergics (antiparkinsonian agents), free radical scavenging agents, growth factors, haemostatics, immunological agents, lipid regulating agents, muscle relaxants, proteins, peptides and polypeptides, parasympathomimetics, parathyroid calcitonin and biphosphonates, pesticides, prostaglandins, radio-pharmaceuticals, hormones, sex hormones (including steroids), time release binders, anti-allergic agents, stimulants and anoretics, steroids, sympathomimetics, thyroid agents, vaccines, vasodilators, and xanthines.

12. (original) A pharmaceutical composition comprising a polymer of claim 1; and a pharmaceutically acceptable carrier.

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13. (withdrawn) A method for making a polymer of claim 1, comprising providing diene monomers coupled to at least one biologically active molecule through at least one non-amide linking moiety (linker); and polymerizing the monomers to produce the polymer.

14. (withdrawn) The method of claim 13, wherein said providing comprises coupling the at least one biologically active molecule to the diene through at least one linker.

15. (withdrawn) A method for delivering a biologically active molecule to a subject, comprising administering a polymer of claim 1 to the subject.

16. (withdrawn) A device comprising a polymer of claim 1.

17. (withdrawn) The device of claim 16, wherein the device comprises one or more substrates (surfaces) coated with the polymer or coated with a composition comprising the polymer.

18. (withdrawn) The device of claim 16, wherein the device is an implantable or deployable medical device.