

-continued

(B) TYPE: amino acid
 (D) TOPOLOGY: circular

(x i) SEQUENCE DESCRIPTION: SEQ ID NO:13:

Gly Xaa Arg Gly Asp Ser Pro Cys Ala
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What is claimed:

1. A method for preventing adhesion formation, comprising:

Administering an effective amount of at least one RGD-containing peptide characterized by the sequence Arg-Gly-Asp-R, in which R is selected from the group consisting of Ser, Cys, Thr, Asn and d-Ser.

2. A method according to claim 1, wherein said tissue repair comprises re-epithelization.

3. A method according to claim 1, wherein said tissue repair comprises mesothelial repair.

4. A method according to claim 1, wherein the RGD-containing peptide is characterized by absence of chronic inflammation or trauma at a site of administration.

5. A method according to claim 4, wherein the RGD-containing peptide is further characterized by utility in inhibiting platelet aggregation.

6. A method according to claim 1, wherein the RGD-containing peptide has from three to about twenty amino acids.

7. A method according to claim 1, wherein the RGD-containing peptide is Arg-Gly-Asp.

8. A method according to claim 1, wherein the RGD-containing peptide is administered in the form of microcapsules or microspheres.

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9. A method according to claim 8 wherein the microcapsules or microspheres comprise a biodegradable polymer selected from the group consisting of poly(dl-lactides), poly(dl-lactide-co-glycolides), polycaprolactones, polyglycolides, polylactic acid-co-glycolides, poly(hydroxybutyric acids), polyortho-esters, polyacetals and mixtures thereof.

10. A method according to claim 1, wherein the RGD-containing peptide is administered in the form of liposomes.

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11. A method according to claim 10, wherein the liposomes comprise L-alpha-distearoyl phosphatidylcholine.

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12. A method according to claim 1, wherein the RGD-containing peptide is administered in the form of an instillate.

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13. A method according to claim 12, wherein the instillate comprises a high-molecular-weight carrier selected from the group consisting of dextran, carboxymethylcellulose, hyaluronic acid, chondroitin sulfate and mixtures thereof.

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14. A method according to claim 1, wherein the RGD-containing peptide is administered in combination with an absorbable mechanical barrier.

15. A method according to claim 14, wherein the absorbable mechanical barrier comprises oxidized regenerated cellulose.

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