SEQUENCE LISTING

<110> The Trustees of University of Pennsylvania
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Guedan Carrio, Sonia
Zhao, Yangbing
Scholler, John

<120> USE OF ICOS-BASED CARS TO ENHANCE ANTITUMOR ACTIVITY AND CAR PERSISTENCE

<130> 046483-6060-00-WO.602272

<150> US 61/601,910
<151> 2012-02-22

<160> 16

<170> PatentIn version 3.5

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Ala Arg Gly Gly Tyr Asp Gly Arg Gly Phe Asp Tyr Trp Gly Gln Gly
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Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly
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Ser Ser Gly Gly Gly Ser Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile
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Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser
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Ser Ser Val Ser Tyr Met His Trp Tyr Gln Gln Lys Ser Gly Thr Ser
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Pro Lys Arg Trp Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro
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Gly Arg Phe Ser Gly Ser Gly Ser Gly Asn Ser Tyr Ser Leu Thr Ile
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35 40 45

Pro Arg Arg Lys Asn Pro Gln Glu Gly Leu Tyr Asn Glu Leu Gln Lys
50 55 60

Asp Lys Met Ala Glu Ala Tyr Ser Glu Ile Gly Met Lys Gly Glu Arg
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Arg Arg Gly Lys Gly His Asp Gly Leu Tyr Gln Gly Leu Ser Thr Ala
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65                  70                  75                  80

Ser Ser Tyr Asn Gln Lys Phe Arg Gly Lys Ala Thr Leu Thr Val Asp
                85                  90                  95

Lys Ser Ser Ser Thr Ala Tyr Met Asp Leu Leu Ser Leu Thr Ser Glu
            100                 105                 110

Asp Ser Ala Val Tyr Phe Cys Ala Arg Gly Gly Tyr Asp Gly Arg Gly
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Phe Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly
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Gly Gly Ser Gly Gly Gly Gly Ser Ser Gly Gly Gly Ser Asp Ile Glu
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Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly Glu Lys Val
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Lys Leu Ala Ser Gly Val Pro Gly Arg Phe Ser Gly Ser Gly Ser Gly
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Asn Ser Tyr Ser Leu Thr Ile Ser Ser Val Glu Ala Glu Asp Asp Ala
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Ala Phe Val Val Val Cys Ile Leu Gly Cys Ile Leu Ile Cys Trp Leu
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