

SEQUENCE LISTING

<110> The Univiersity of North Carolina at Chapel Hill
 Spyryx LLC
 Tarran, Robert
 Christensen, Dale J.

<120> IMPROVED PEPTIDE INHIBITORS OF SODIUM CHANNELS

<130> 5470-721W0

<150> US 62/061,461

<151> 2014-10-08

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<170> PatentIn version 3.5

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Leu Pro Leu Pro Leu Glu Gln Ser
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Leu Pro Xaa Pro Leu Asp Gln Ser
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Leu Pro Xaa Pro Leu Asp Gln Thr
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Leu Pro Xaa Pro Val Glu Gln Ser
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Leu Pro Xaa Pro Val Glu Gln Ser
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Leu Pro Leu Pro Leu Glu Gln Ser
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<400> 110

Leu Pro Xaa Pro Val Glu Gln Ser
1 5

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Leu Xaa Xaa Xaa Leu Glu Gln Ser
1 5

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Leu Xaa Xaa Xaa Val Glu Gln Ser
1 5

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<400> 113

Leu Pro Val Pro Leu Asp Gln Thr
1 5

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<400> 114

Asp Gln Thr Leu Pro Leu Asn Val Asn Pro
1 5 10

<210> 115
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Leu Pro Val Pro Leu Asp Gln Thr Leu Pro Leu
1 5 10

<210> 116
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non-natural amino acid

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<400> 116

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

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<211> 8
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<223> Xaa is Pro, HYP, 2PP or DHP

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<223> Xaa is Pro, HYP, 2PP or DHP

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<223> Xaa is T, S or MS

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<400> 117

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

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<400> 118

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

<210> 119
<211> 15
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<400> 119

Leu Pro Val Pro Leu Asp Gln Thr Leu Pro Leu Asn Val Asn Pro
1 5 10 15

<210> 120
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<400> 120

Leu Pro Val Pro Leu Asp Gln Thr

1 5

<210> 121

<211> 8

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<223> Xaa is Nle

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<400> 121

Xaa Pro Val Pro Leu Asp Gln Thr

1 5

<210> 122

<211> 8

<212> PRT

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Leu Pro Xaa Pro Leu Asp Gln Thr
1 5

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Leu Pro Val Pro Xaa Asp Gln Thr
1 5

<210> 124
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<400> 124

Leu Pro Val Pro Leu Asp Asn Thr
1 5

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Leu Pro Val Pro Leu Glu Gln Thr
1 5

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Leu Pro Val Pro Leu Asp Gln Ser
1 5

<210> 127

<211> 8
<212> PRT
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<400> 127

Leu Pro Ile Pro Leu Asp Gln Thr
1 5

<210> 128
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<212> PRT
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<223> Xaa is D-Ala

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<223> AMIDATION

<400> 128

Xaa Xaa Leu Pro Ile Pro Leu Asp Gln Thr Xaa Xaa
1 5 10

<210> 129

<211> 8
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<213> Artificial

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<223> Xaa is Ahp

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<223> AMIDATION

<400> 129

Leu Pro Xaa Pro Leu Asp Gln Thr
1 5

<210> 130
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<212> PRT
<213> Artificial

<220>
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<400> 130

Leu Pro Phe Pro Leu Asp Gln Thr
1 5

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<222> (12)..(12)

<223> AMIDATION

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Xaa Xaa Leu Xaa Xaa Pro Leu Asp Gln Thr Xaa Xaa

1

5

10

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<400> 132

Xaa Xaa Leu Pro Xaa Xaa Leu Asp Gln Thr Xaa Xaa
1 5 10

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<220>
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Gly Gly Leu Pro Xaa Pro Leu Asp Gln Thr Leu Pro Leu Asn Val Asn
1 5 10 15

Pro Ala

<210> 134
<211> 8
<212> PRT
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<220>
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<220>
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<223> ACETYLATION

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<221> MOD_RES
<222> (8)..(8)
<223> AMIDATION

<400> 134

Leu Pro Ile Pro Leu Asp Gln Thr
1 5

<210> 135
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<223> Xaa is D-Ala

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<223> AMIDATION

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Xaa Leu Pro Xaa Pro Leu Asp Gln Thr Xaa
1 5 10

<210> 136

<211> 8

<212> PRT

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<223> Xaa is DHP

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<223> AMIDATION

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Leu Xaa Val Pro Leu Asp Gln Thr
1 5

<210> 137

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Sodium channel activity inhibiting peptide sequence

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<221> MOD_RES

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<223> AMIDATION

<400> 137

Val Pro Val Pro Leu Asp Gln Ser
1 5

<210> 138

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Sodium channel activity inhibiting peptide sequence

<220>

<221> MOD_RES

<222> (8)..(8)

<223> AMIDATION

<400> 138

Gly Gly Leu Pro Ile Pro Leu Asp Gln Thr Leu Pro Leu Asn Val Asn
1 5 10 15

Pro Ala

<210> 139

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Sodium channel activity inhibiting peptide sequence

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<223> Xaa is HYP

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<221> MOD_RES

<222> (8)..(8)

<223> AMIDATION

<400> 139

Leu Xaa Ile Pro Leu Asp Gln Thr
1 5

<210> 140

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Sodium channel activity inhibiting peptide sequence

<220>

<221> MOD_RES

<222> (18)..(18)

<223> AMIDATION

<400> 140

Gly Gly Leu Pro Ile Pro Leu Asp Gln Thr Leu Pro Leu Asn Val Asn
1 5 10 15

Pro Ala

<210> 141

<211> 12

<212> PRT

<213> Artificial

<220>

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<222> (11)..(12)

<223> Xaa is D-Ala

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<222> (12)..(12)
<223> AMIDATION

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Xaa Xaa Leu Pro Leu Pro Leu Asp Gln Thr Xaa Xaa
1 5 10

<210> 142
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<212> PRT
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<220>
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<223> Xaa is D-Ala

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<222> (12)..(12)
<223> AMIDATION

<400> 142

Xaa Xaa Leu Pro Xaa Pro Leu Asp Gln Thr Xaa Xaa
1 5 10

<210> 143
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<212> PRT
<213> Artificial

<220>
<223> ADG negative control peptide sequence

<220>
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<222> (18)..(18)
<223> AMIDATION

<400> 143

Ala Asp Gly Gly Leu Leu Leu Leu Asn Asn Pro Pro Pro Pro Gln Thr
1 5 10 15

Val Val

<210> 144
<211> 10
<212> PRT
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<220>
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<223> AMIDATION

<400> 144

Xaa Leu Pro Ile Pro Leu Glu Gln Ser Xaa
1 5 10