CLAIMS

1. A pharmaceutical composition comprising
    a. one or more perturbation stimuli is a chemical stimuli; and
    b. one or more excipients.

2. The pharmaceutical composition of claim 1, wherein the chemical stimulus selected from the group consisting of Acetic acid, Ascorbic acid, Citric acid, D-Malic acid, L-Malic acid, D/L-Malic acid, Maleic acid, Fumaric acid, Niacin (Vitamin B3), Phosphoric acid, Sodium malate, Sodium citrate, Sodium acetate, Potassium malate, Sodium ascorbate, Calcium citrate, Potassium citrate, Erythorbic acid, Aspartic acid, Prussic acid, Succinic acid, Oxalic acid, Tannic acid, Benzoic acid, Calcium phosphate, and Hydrochloric acid, including all forms, enantiomers, isomers, and analogues thereof.

3. The pharmaceutical composition of claim 2, wherein the chemical stimuli is D-Malic acid.

4. The pharmaceutical composition of claim 2, wherein the chemical stimuli is L-Malic acid.

5. The pharmaceutical composition of claim 2, wherein the chemical stimuli is D/L-Malic acid.

6. The pharmaceutical composition of any of claims 3-5, wherein the chemical stimuli further comprises Acetic acid.

7. The pharmaceutical composition of any of claims 2-6, wherein the one or more excipients are selected from the group consisting of solvents, diluents, liquid vehicles, dispersion or suspension media or aids, lubricants, surfactants, thickening agents, emulsifying agents, lipids, liposomes, isotonic agents, buffers, gelation agents, preservatives, and other additives, such as colors, sweeteners and flavor components.

8. The pharmaceutical composition of claim 7, wherein the excipient is a sugar or sugar alcohol and wherein the sugar or sugar alcohol is selected from the group consisting of dextrose, dextrin, glucose, isomaltitol, lactitol, lactose, mannitol, sorbitol, sucrose, and xylitol.

9. The pharmaceutical composition of claim 8, wherein the sugar or sugar alcohol is a sugar alcohol and where the sugar alcohol is mannitol.

10. An orally disintegrating tablet (ODT) comprising
    a. one or more perturbation stimuli is a chemical stimuli; and
    b. one or more excipients.

11. The ODT of claim 10, wherein the chemical stimulus selected from the group consisting of Acetic acid, Ascorbic acid, Malic acid, Citric acid, D-Malic acid, L-Malic acid, D/L-Malic acid, Maleic acid, Fumaric acid, Niacin (Vitamin B3), Phosphoric acid, Sodium malate, Sodium citrate, Sodium acetate, Potassium malate, Sodium ascorbate, Calcium citrate, Potassium citrate, Erythorbic acid, Aspartic acid, Prussic acid, Succinic acid, Oxalic acid, Tannic acid, Benzoic acid, Calcium phosphate, and Hydrochloric acid, including all forms, enantiomers, isomers, and analogues thereof.

12. The ODT of claim 11, wherein the chemical stimuli is one of (a) D-Malic acid, (b) L-Malic acid or (c) D/L-Malic acid.

13. The ODT of claim 12, wherein the chemical stimuli further comprises Acetic acid.

14. The ODT of any of claims 10-13, wherein the one or more excipients are selected from the group consisting of solvents, diluents, liquid vehicles, dispersion or suspension media or aids, lubricants, surfactants, thickening agents, emulsifying agents, lipids, liposomes, isotonic agents, buffers, gelation agents, preservatives, and other additives, such as colors, sweeteners and flavor components.

15. The ODT of claim 14, wherein excipient is a sugar or sugar alcohol and wherein the sugar or sugar alcohol is selected from the group consisting of dextrose, dextrin, glucose, isomaltitol, lactitol, lactose, mannitol, sorbitol, sucrose, and xylitol.

16. The ODT of claim 15, wherein the sugar or sugar alcohol is a sugar alcohol and wherein the sugar alcohol is mannitol.

17. The ODT of any one of claims 14-16, wherein the ODT comprises (a) about 40-80% of the at least one chemical stimuli and about 20-60% of the sugar or sugar alcohol, (b) about 50% of the at least one chemical stimuli and about 50% of the sugar or sugar alcohol, (c) about 75% of the at least one chemical stimuli and about 25% of the sugar or sugar alcohol or (d) about 66.7% of the at least one chemical stimuli and about 33.3% of the sugar or sugar alcohol.

18. Use of the pharmaceutical composition of any of claims 1-9 or the ODT of any of claims 10-17 in the manufacture of a medicament for the treatment of respiratory arrythmia caused by a disease, disorder or condition.

19. The use of claim 18, wherein the disease, disorder or condition selected from the group consisting of cancer, advanced cancer, apnea, orthopnea, dyspnea, hyperpnea, hyperventilation, hypoventilation, tachypnea, Kussmaul respiration, Cheyne-Stokes respiration, sighing respiration, Biot respiration, apneustic breathing, central neurogenic hyperventilation, central neurogenic hypoventilation, agonal breathing, allergies, multiple sclerosis, Parkinson disease, Trauma, Postpolio syndrome, Amyotrophic Lateral Sclerosis, Guillain-Barré syndrome, Charcot-Marie-Tooth disease, Myasthenia gravis, Botulism, Duchenne muscular dystrophy, Polymyositis/dermatomyositis, Postparalysis myopathy, asthma, chronic obstructive pulmonary disease (COPD) and interstitial lung disease, anxiety related disorders, gastroesophageal reflux disease (GERD), panic disorder, Rett syndrome, effects of post-surgery recovery, weight loss, and insomnia.

20. The use of claim 18, wherein the medicament is to be administered to a subject, and wherein the respiratory arrythmia is reduced so the subject does not hiccup for a time period selected from the group consisting of 1 hour, 2 hours, 3 hours, 4 hours, 5 hours, 6 hours, 7 hours, 8 hours, 9 hours, 10 hours, 11 hours, 12 hours, 13 hours, 14 hours, 15 hours, 16 hours, 17 hours, 18 hours, 19 hours, 20 hours, 21 hours, 22 hours, 23 hours, 24 hours (1 day), 36 hours, 48 hours (2 days), 60 hours, 72 hours (3 days), 84 hours, 96 hours (4 days), 108 hours, 120 hours (5 days) and more than 120 hours (5 days).

21. The pharmaceutical composition of any of claims 1-9 or the ODT of any of claims 10-17 for use in therapy.