

## WHAT IS CLAIMED IS:

1. A method of reducing the infectivity of a non-malignant respiratory disease (NMRD) virus by modifying the viral entry mechanism proteins in a subject, the method comprising administering to the subject an effective amount of a plant species or genus thereof-derived component selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic thereof or combination thereof, wherein said component is capable of ameliorating symptoms of NMRD and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera thymbra*, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng*.
2. A method of reducing the infectivity of a virus by modifying the viral entry mechanism proteins in a subject, wherein the virus is selected from the non-limiting list of table A, the method comprising administering to the subject an effective amount of a plant species or genus thereof-derived component selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic thereof or combination thereof, wherein said component is capable of capable of ameliorating symptoms of said virus selected from the non-limiting list of table A and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera thymbra*, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng*.
3. A method of preventing or treating non-malignant respiratory disease (NMRD) in a subject in need thereof, the method comprising administering to the subject an effective amount of a plant species or genus thereof-derived component selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic thereof or combination thereof, wherein said component is capable of ameliorating symptoms of NMRD and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera*

- thymbra, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng*, preventing or treating NMRD in the subject.
4. A vaccine against NMRD comprising an effective amount of a plant species or genus thereof-derived component selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic thereof or combination thereof, wherein said component is capable of ameliorating symptoms of NMRD and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera thymbra*, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng*.
  5. A pharmaceutical composition comprising an effective amount of a plant species or genus thereof-derived component selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic thereof or combination thereof, wherein said component is capable of ameliorating symptoms of NMRD and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera thymbra*, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng* for use in preventing or treating NMRD.
  6. A composition of matter comprising at least 2 of a plant species or genus thereof-derived components selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic thereof or combination thereof, wherein said component is capable of ameliorating symptoms of NMRD and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera thymbra*, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng*.
  7. A food supplement comprising a combination of at least 2 of a plant species or genus thereof-derived component selected from the group consisting of a plant part, extract thereof, fraction thereof, active ingredient thereof, synthetic analog thereof, mimetic

thereof or combination thereof, wherein said component is capable of ameliorating symptoms of NMRD and wherein said plant species is selected from the group consisting of *Nigella sativa*, *Thymus capitatus*, *Thymus vulgaris*, *Origanum syriacum*, *Thymbra spicata*, *Satujera thymbra*, *Sesamum indicum*, *Rhus coriaria*, *Gynostemma pentaphyllum*, *Boswellia sacra* and *Panax ginseng*.

8. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1, 3-7, wherein said NMRD is selected from the group pulmonary hypertension, interstitial lung disease, acute lung injury (ALI), acute respiratory distress syndrome (ARDS), sarcoidosis of the lung, bronchiectasis, asbestosis, berylliosis, silicosis, anthracosis, Histiocytosis X, pneumotitis, smoker's lung, bronchiolitis obliterans, lung scarring due to tuberculosis and pulmonary fibrosis, chronic obstructive pulmonary disease, pneumoconiosis, traumatic pulmonary injury, pulmonary infections and pulmonary manifestations of connective tissue diseases, including systemic lupus erythematosus, rheumatoid arthritis, scleroderma, polymyositis and dermatomyositis.
9. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1,3-7, wherein said NMRD is Chronic Obstructive Pulmonary Disease (COPD), Idiopathic Pulmonary Fibrosis (IPF) or Asthma.
10. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1,3-7, wherein said symptoms are selected from the group consisting of coughing, shortness of breath, wheezing, difficulty in breathing, inflammation of the airways, chest tightness and exercise intolerance.
11. The method, vaccine, pharmaceutical composition, of any one of claims 1-7, wherein said component comprises at least 2 components.
12. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, wherein said component comprises at least 3 components.

13. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, wherein said component comprises at least 4 components.
14. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, wherein said component comprises at least 5 components.
15. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, wherein said component comprises 5-10 components.
16. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, 11-15, wherein said component comprises thymoquinone or an analog thereof.
17. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, 11-15, wherein said component comprises thymol or an analog thereof.
18. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, 11-15, wherein said component comprises carvacrol or an analog thereof.
19. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, 11-15, wherein said component comprises bromelain or an analog thereof.
20. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, 11-15, wherein said component comprises pineapple extract comprising bromelain or an analog thereof.
21. The method, vaccine, pharmaceutical composition, composition or food supplement of any one of claims 1-7, 11-15, wherein said component comprises tryptophan or an analog thereof, or extract of a plant containing tryptophan.
- 5 22. The method of any one of claims 1-7, 11-15 vaccine, pharmaceutical composition, composition or food supplement, composition or extracts further including

"Beduin Tea" comprising Rose Leaves *Micromeria fruticosa*, *Salvia*, *Cymbopogon* (Citrals), *Aloysia*, *Verbena officinalis*, *Origanum majorana*, *Mentha*

23. The method of any one of claims 1-7, 11-15 vaccine, pharmaceutical composition,  
5 composition, or food supplement *further including* "Beduin Tea" comprising  
Thyme, sage, cardamom, cinnamon, black tea, habuk, Marmaya.