**Table S1. Demographic, clinical and serological characterization of patients**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient ID** | **Age** | **Sex** | **Symptoms** | **IgE sensitization to non-glycosylated marker allergens detected by microarray** | | | |
| **1** | 44 | M | AD, RC | birch, cat, grass, mite, mold, wasp, weed | | | |
| **2** | 59 | M | Urticaria, RC, sting reaction | bee, birch, grass, mite, wasp | | |  |
| **3** | 46 | F | Sting reaction | wasp |  |  |  |
| **4** | 69 | M | Sting reaction | wasp | |  |  |
| **5** | 35 | F | Pruritus, sting reaction | grass, mite, wasp, weed | | |  |
| **6** | 40 | M | Pruritus | tree, wasp | |  |  |
| **7** | 60 | F | Urticaria, sting reaction | wasp |  |  |  |
| **8** | 67 | M | RC, AD | bee, mite, peanut, mold | | |  |
| **9** | 59 | M | Rhinitis, Urticaria, sting reaction | bee, grass, wasp | |  |  |
| **10** | 4 | M | Sting reaction | wasp |  |  |  |
| **11** | 24 | M | Sting reaction | bee, birch, grass, mold, peanut, wasp | | | |
| **12** | 25 | M | Sting reaction | bee, peanut, wasp | |  |  |
| **13** | 57 | M | Sting reaction | bee, wasp | |  |  |
| **14** | 36 | M | Sting reaction | none |  |  |  |
| **15** | 18 | M | Rhinitis, rash | bee, birch, grass, olive/ash, wasp | | | |
| **16** | 40 | F | RC, asthma | birch, cat, grass, mold | | |  |
| **17** | 32 | F | RC | grass, mite, wasp, weed | | |  |
| **18** | 45 | M | RC, asthma | birch, grass, olive/ash | | |  |
| **19** | 45 | M | RC, asthma | birch, cat, grass, mite, olive/ash, wasp | | | |
| **20** | 38 | F | Rhinitis | birch, grass, mold, olive/ash, wasp, weed | | | |
| **21** | 46 | M | RC, sting reaction | bee, birch, cat, grass, mold, wasp | | | |
| **22** | 54 | F | Rhinitis, sting reaction | bee, birch, grass, olive/ash, peanut, wasp | | | |
| **23** | 45 | F | RC, sting reaction | bee, birch, shrimp, wasp | | |  |
| **24** | 37 | M | Sting reaction | bee, grass, wasp | |  |  |
| **25** | 45 | M | RC, sting reaction | bee, egg, olive/ash, peanut, wasp | | | |
| **26** | 51 | M | RC, sting reaction | bee, birch, mite, olive/ash, wasp | | | |
| **27** | 47 | M | Sting reaction | bee, wasp | |  |  |
| **28** | 67 | F | Sting reaction | wasp |  |  |  |
| **29** | 62 | M | Sting reaction | wasp |  |  |  |
| **30** | 36 | F | Sting reaction | bee |  |  |  |
| **31** | 44 | F | Sting reaction | wasp |  |  |  |
| **32** | 75 | M | Sting reaction | bee, peanut, wasp | |  |  |
| **33** | 55 | M | Sting reaction | bee, peanut, wasp | |  |  |
| **34** | 39 | M | Rhinitis, sting reaction | bee, olive/ash, wasp | | |  |
| **35** | 67 | F | Sting reaction | wasp |  |  |  |
| **36** | 33 | M | Sting reaction | bee, peanut, wasp | |  |  |
| **37** | 52 | M | Sting reaction | wasp |  |  |  |
| **38** | 50 | M | Sting reaction | bee, peanut, wasp | |  |  |
| **39** | 55 | F | Sting reaction | bee |  |  |  |
| **40** | 69 | M | Sting reaction | wasp |  |  |  |
| **41** | 53 | F | Sting reaction | bee, wasp | |  |  |
| **42** | 59 | F | RC, sting reaction | birch, wasp | |  |  |
| **43** | 62 | F | Asthma, sting reaction | birch, mite, wasp | |  |  |
| **44** | 33 | F | sting reaction | bee, wasp | |  |  |
| **45** | 67 | M | Sting reaction | wasp |  |  |  |
| **46** | 47 | M | Sting reaction | wasp |  |  |  |
| **47** | 41 | M | Sting reaction | wasp |  |  |  |
| **48** | 52 | M | Sting reaction | wasp |  |  |  |
| **49** | 21 | F | Sting reaction | wasp |  |  |  |
| **50** | 53 | M | Sting reaction | none |  |  |  |
| **51** | 22 | F | Sting reaction | bee |  |  |  |
| **52** | 44 | F | Sting reaction | bee |  |  |  |
| **53** | 46 | M | Sting reaction | wasp |  |  |  |
| **54** | 43 | F | Sting reaction | wasp |  |  |  |
| **55** | 78 | M | Sting reaction | wasp |  |  |  |
| **56** | 50 | F | Sting reaction | bee |  |  |  |
| **57** | 39 | F | Sting reaction | bee, mite, wasp | |  |  |
| **58** | 58 | F | Sting reaction | bee, milk, peanut, wasp | | |  |
| **59** | 53 | M | Sting reaction | wasp |  |  |  |
| **60** | 54 | F | Sting reaction | wasp |  |  |  |
| **61** | 49 | M | Sting reaction | none |  |  |  |
| **62** | 33 | M | Sting reaction | bee, wasp | |  |  |
| **63** | 45 | M | Rhinitis, sting reaction | birch, grass | |  |  |
| **64** | 53 | M | RC, sting reaction | bee, cat, grass, wasp | | |  |
| **65** | 50 | M | Pruritus, sting, reaction, rhinitis | bee, grass, mite, wasp, weed | | |  |
| **66** | 53 | F | Urticaria, pruritus, sting reaction | bee, birch, grass, mite, wasp | | |  |
| **67** | 19 | F | RC, asthma | birch, cat, dog, grass, mite, weed | | | |
| **68** | 54 | F | Urticaria, sting reaction | bee, dog, grass, mite | | |  |
| **69** | 19 | M | RC, sting reaction | bee, birch, grass, mite, wasp | | |  |
| **70** | 20 | F | Urticaria, rhinitis, sting reaction | birch, grass, mite, olive/ash | | |  |
| **71** | 36 | F | RC, sting reaction | bee, grass, mite | |  |  |
| **72** | 45 | F | Sting reaction | dog, grass, mold, wasp | | |  |
| **73** | 40 | M | Sting reaction | birch, grass, mold, wasp | | |  |

Abbreviations: M: male, F: female, AD: atopic dermatitis, RC: rhino-conjunctivitis