Molecular approach to a patient’s tailored diagnosis of the oral allergy syndrome

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### Table S1. Details on Bet v 2 homologs from different sources compared with Bet v 1.0101 (see also Figure 2a)

| Allergen       | Accession number (Uniprot) | Plant order | Source       | Tissue     | Identity with Bet v 2.0101 (%) |
|----------------|----------------------------|-------------|--------------|------------|--------------------------------|
| Bet v 2.0101   | P25816                     | Fagales     | birch        | pollen     | 100                            |
| Cor a 2        | A4KA45                     | Fagales     | hazelnut     | pollen, seed | 92                             |
| Jug r 7        | A0A2I4                     | Fagales     | walnut       | seed       | 90                             |
| Gly m 3        | I1K602                     | Fabales     | soybean      | seed       | 86                             |
| Vit v 4        | A5BLM8                     | Vitales     | grape        | fruit      | 86                             |
| Fra e 2        | W8NXD0                     | Lamiales    | ash          | pollen     | 85                             |
| Ole e 2        | A4GDU2                     | Lamiales    | olive tree   | pollen     | 85                             |
| Ole e 2        | O24169                     | Lamiales    | olive tree   | pollen     | 84                             |
| Mer a 1.0101   | O49894                     | Malpighiales| annual mercury | pollen     | 84                             |
| Jug r 7.0101   | A0A2I4DNN6                 | Fagales     | walnut       | seed       | 83                             |
| Lil l 2        | Q9SNW7                     | Liliales    | easter lily  | pollen     | 82                             |
| Mal d 4.0302   | Q84RR7                     | Rosales     | apple        | fruit      | 82                             |
| Pyr c 4.0101   | Q9XF38                     | Rosales     | pear         | fruit      | 82                             |
| Mal d 4.0301   | Q9XF40                     | Rosales     | apple        | fruit      | 81                             |
| Dau c 4.0101   | Q8SAE6                     | Apiales     | carrot       | root       | 80                             |
| Hev b 80201    | Q9M7N0                     | Malpighiales| rubber tree  | latex      | 80                             |
Table S2. Details on Bet v 1 homologs from different sources compared with Bet v 1.0101 (see Figure 2b)

| Allergen | Accession number (Uniprot) | Plant Order | Source | Tissue | identity with Bet v 1.0101 |
|----------|-----------------------------|-------------|--------|--------|---------------------------|
| Bet v 1.0101 | P15494 | Fagales | birch | pollen | 100 |
| Cor a 1.0201 | Q39453 | Fagales | hazelnut | pollen | 83 |
| Aln g 1.0101 | P38948 | Fagales | alder | pollen | 81 |
| Car b 1.0302 | Q96382 | Fagales | horbeam | pollen | 78 |
| Que su 1 | H9NJ55 | Fagales | oak | pollen | 72 |
| Cas s 1 | Q93YH9 | Fagales | chestnut | pollen | 68 |
| Cas s 1 | Q93YH9 | Fagales | chestnut | seed | 68 |
| Jug r 5.0101 | A0A1J0 | Fagales | walnut | seed | 66 |
| Fag s 1.0101 | B7TWE6 | Fagales | beech | pollen | 65 |
| Mal d 1.0401 | Q43550 | Rosales | apple | fruit | 65 |
| Vit v 8 | D7SY82 | Vitales | grape | fruit | 62 |
| Pru du 1 | B6CQS6 | Rosales | almond | seed | 61 |
| Pru p 1 | B6CQS6 | Rosales | peach | fruit | 60 |
| Pru ar 1.0101 | O50001 | Rosales | apricot | fruit | 60 |
| Pru av 1.0101 | O24248 | Rosales | cherry | fruit | 59 |
Table S3. Details on a selection of Bet v 1 isoallergens and isoforms, found in birch pollen and compared with Bet v 1.0101 (see also Figure 2c)

| Allergen  | Accession number (Uniprot) | Source | Tissue | Identity with Bet v 1.0101 (%) |
|-----------|---------------------------|--------|--------|------------------------------|
| Bet v 1.0101 | P15494              | birch  | pollen | 100                          |
| Bet v 1.0109 | Q96366               |        |        | 99                           |
| Bet v 1.0113 | Q96370               |        |        | 98                           |
| Bet v 1.0108 | Q96365               |        |        | 97                           |
| Bet v 1.0119 | Q0QLS9              |        |        | 96                           |
| Bet v 1.0102 | P43177               |        |        | 95                           |
| Bet v 1.0103 | P43178               |        |        | 95                           |
| Bet v 1.0118 | Q9SCH6              |        |        | 94                           |
| Bet v 1.2001 | Q39429               |        |        | 90                           |
| Bet v 1.0204 | Q39429               |        |        | 89                           |
| Bet v 1.0205 | Q39427               |        |        | 88                           |
| Bet v 1.0207 | Q0QLV2              |        |        | 88                           |
| Bet v 1.0202 | P43176              |        |        | 87                           |
| Bet v 1.0301 | Q39415              |        |        | 72                           |
Table S4. Details on GRP homologs from different sources compared with Cry j GRP (see also Figure 2d)

| Allergen | Accession number (Uniprot or GenBank) | Plant Order | Source | Tissue | identity with Cry j GRP |
|----------|--------------------------------------|-------------|--------|--------|-------------------------|
| Cry j GRP | GenBank: BY902962.1                   | Cupressales | cedar  | pollen | 100                     |
| Pru av 7.0101 | GenBank: XP_021820299.1             | Rosales     | cherry | fruit  | 79                      |
| Pru m 7.0101 | GenBank: XP_016648029.1             | Rosales     | japanese apricot | fruit | 78                      |
| Pru p 7.0101 | P86888                                | Rosales     | peach  | fruit  | 78                      |
| Pun g 7    | A0A218X6T8                            | Myrtales    | pomegranate | fruit | 78                      |
| Cit s 7    | A0A067GPB8                            | Sapindales  | sweet orange | fruit | 75                      |