

**Table SII. Characteristics associated to familial melanoma CDKN2A<sup>-</sup> vs. sporadic melanoma**

|                                     | Familial melanoma CDKN2A <sup>-</sup> vs. sporadic melanoma |          |         |
|-------------------------------------|---|----------|---------|
|                                     | Univariate  |          |         |
|                                     | OR  | 95% CI   | p-value |
| Sex                                 |   |          |         |
| Man                                 | Ref.  | Ref.     | 0.022   |
| Woman                               | 1.7   | 1.1–2.6  |         |
| Age at diagnosis                    |   |          |         |
| ≤ 50 years                          | 2.3   | 1.5–3.6  | <0.001  |
| > 50 years                          | Ref.  | Ref.     |         |
| Eye colour                          |   |          |         |
| Dark (brown/black)                  | Ref.  | Ref.     | 0.675   |
| Fair (blue/green)                   | 1.1   | 0.7–1.7  |         |
| Hair colour                         |   |          |         |
| Black/brown                         | Ref.  | Ref.     | 0.009   |
| Blonde                              | 1.7   | 1.0–2.8  |         |
| Red                                 | 2.9   | 1.3–6.4  |         |
| Phototype                           |   |          |         |
| I–II                                | 1.1   | 0.7–1.7  | 0.688   |
| III–V                               | Ref.  | Ref.     |         |
| Lifetime severe sunburns            |   |          |         |
| ≤ 5                                 | Ref.  | Ref.     | 0.426   |
| > 5                                 | 1.2   | 0.7–2.1  |         |
| Outdoor worker                      |   |          |         |
| No                                  | 1.9   | 1.1–3.4  | 0.030   |
| Yes                                 | Ref.  | Ref.     |         |
| Freckling in childhood              |   |          |         |
| No                                  | Ref.  | Ref.     | 0.040   |
| Yes                                 | 1.6   | 1.0–2.6  |         |
| Solar lentigines                    |   |          |         |
| No                                  | Ref.  | Ref.     | 0.249   |
| Yes                                 | 0.7   | 0.4–1.3  |         |
| Solar lentigines at melanoma site   |   |          |         |
| No                                  | Ref.  | Ref.     | 0.584   |
| Yes                                 | 0.9   | 0.6–1.4  |         |
| Actinic keratosis                   |   |          |         |
| No                                  | Ref.  | Ref.     | 0.050   |
| Yes                                 | 0.4   | 0.2–1.0  |         |
| Second non-cutaneous neoplasia      |   |          |         |
| No                                  | Ref.  | Ref.     | 0.467   |
| Yes                                 | 1.3   | 0.7–2.3  |         |
| Personal history of BCC             |   |          |         |
| No                                  | Ref.  | Ref.     | 0.406   |
| Yes                                 | 0.7   | 0.2–1.8  |         |
| Personal history of SCC             |   |          |         |
| No                                  | Ref.  | Ref.     | 0.002   |
| Yes                                 | 4.4   | 1.8–11.2 |         |
| Common melanocytic naevi            |   |          |         |
| < 20                                | Ref.  | Ref.     | 0.001   |
| ≥ 20                                | 2.2   | 1.4–3.3  |         |
| Atypical melanocytic naevus         |   |          |         |
| No                                  | Ref.  | Ref.     | <0.001  |
| Yes                                 | 2.8   | 1.8–4.5  |         |
| Multiple primary melanomas          |   |          |         |
| No                                  | Ref.  | Ref.     | 0.012   |
| Yes                                 | 2.6   | 1.2–5.4  |         |
| Family history of pancreatic cancer |   |          |         |
| No                                  | Ref.  | Ref.     | 0.422   |
| Yes                                 | 1.5   | 0.5–4.4  |         |
| Family history of cancer            |   |          |         |
| No                                  | Ref.  | Ref.     | 0.920   |
| Yes                                 | 1.0   | 0.6–1.5  |         |
| Site of first primary melanoma      |   |          |         |
| Head/neck                           | Ref.  | Ref.     | 0.001   |
| Upper extremity (hand excluded)     | 3.0   | 1.1–8.1  |         |
| Trunk                               | 5.1   | 2.2–12.1 |         |
| Lower extremity (foot excluded)     | 2.7   | 1.0–6.9  |         |
| Acral (hand/foot)                   | 1.7   | 0.5–6.2  |         |
| Stage at diagnosis                  |   |          |         |
| <i>In situ</i>                      | Ref.  | Ref.     | 0.143   |
| Localized disease (stage I/II)      | 0.6   | 0.3–0.9  |         |
| Locoregional (stage III)            | 0.5   | 0.2–1.1  |         |
| Distant metastases (stage IV)       | N.C.  | N.C.     |         |
| Histological type                   |   |          |         |
| Lentigo maligno melanoma            | Ref.  | Ref.     | 0.014   |
| Superficial spreading melanoma      | 2.3   | 1.0–5.3  |         |
| Nodular melanoma                    | 0.7   | 0.2–2.1  |         |
| Acral lentiginous melanoma          | 0.8   | 0.2–4.2  |         |
| Other/non-specified                 | 2.0   | 0.6–6.4  |         |
| Solar elastosis                     |   |          |         |
| No                                  | Ref.  | Ref.     | 0.137   |
| Yes                                 | 0.3   | 0.1–1.4  |         |
| R variants in MC1R                  |   |          |         |
| No                                  | Ref.  | Ref.     | 0.821   |
| Yes                                 | 0.9   | 0.6–1.6  |         |

Ref.: reference category; N.C.: not calculable; BCC: basal cell carcinoma; SCC: squamous cell carcinoma.