**Table S2A | BRAF targeted hotspot studies**

| Reference                        | Sub-Type                  | Exon | Mutation | Mutations \((n)\) | Samples \((n)\) | Exons Sequenced |
|----------------------------------|---------------------------|------|----------|-------------------|----------------|-----------------|
| (Shim et al., 2017)              | Acral & Subungual         | 15   | V600E    | 2                 | 28             | Hotspots of 11, 15 |
| (Choi, Chun, Jin, Lee, & Yun, 2013) | Acral & Subungual         | 15   | V600E    | 2                 | 33             | 15              |
| (Zebary et al., 2013)            | Acral & Subungual         | 11   | G469A    | 1                 |                |                 |
|                                  |                           | 15   | V600E    | 13                |                |                 |
|                                  |                           | 15   | V600K    | 1                 |                |                 |
| Si, et al                        | Acral                     | 11   | G442S    | 1                 | 148            | 11, 15          |
|                                  |                           | 11   | W450stop | 1                 |                |                 |
|                                  |                           | 15   | G466R    | 1                 |                |                 |
|                                  |                           | 15   | D594G    | 1                 |                |                 |
|                                  |                           | 15   | V600E    | 18                |                |                 |
|                                  |                           | 15   | W604stop | 1                 |                |                 |
| (Colombino et al., 2013)         | Acral                     | 15   | V600E    | 2                 | 11             | 15              |
| (Jin et al., 2013)               | Acral                     | 15   | V600E    | 3                 | 110            | 11, 15          |
| (Oyama et al., 2015)             | Acral                     | 15   | V600E    | 13                | 20             | 15              |
| (Lang & MacKie, 2005)            | Acral                     | 15   | V600E    | 2                 | 13             | 15              |
| (Puig-Butille et al., 2013)      | Acral                     | None | None     | None              | 17             | 11, 15          |
| (X. Kang et al., 2018)           | Acral                     | 15   | L597Q    | 1                 | 19             | 11, 15          |
|                                  |                           | 11   | P453H    | 1                 |                |                 |
| (Moon et al., 2018)              | Acral                     | 15   | V600E    | 17                | 64             | 1 - 18          |
|                                  |                           | 11   | Y471_K472insYGT Vy | 1 | | |
|                                  |                           | 15   | K601N    | 1                 |                |                 |
|                                  |                           | 15   | D594G    | 1                 |                |                 |
|                                  |                           | 15   | G596R    | 1                 |                |                 |
|                                  |                           | 1    | D22N     | 1                 |                |                 |
| (Ashida, Takata, Murata, Kido, & Saída, 2009) | Acral | 15   | V600E    | 3                 | 22             | 15              |
| (Akslen et al., 2008)            | Acral                     | 11   | G466V    | 1                 | 24             | 11, 15          |
|                                  |                           | 15   | V600E    | 1                 | 25             |                 |
|                                  |                           |      |          |                   |                |                 |
|                                  | Acral                     | 15   | V600E    | 18                | 84             | 15              |
| Authors               | Tumor Type | Tumor Location | Mutation(s) | Children | Patients | Year(s) | Hotspots |
|-----------------------|------------|----------------|-------------|----------|----------|---------|----------|
| Carvajal et al., 2011 | Acral & Subungual | 15 | I592del | 1 | 31 | 15 |          |
| Dika et al., 2020     | Acral & Subungual | 15 | V600E | 3 | | |          |
|                       | Acral       | 15 | K601E | 1 | | |          |
| Gao, Tsai, Perng, Wang, & Chiang, 2018 | Acral | 15 | V600E | 6 | | | 11, 15 |
|                       | Acral       | 15 | V600L | 6 | | |          |
| Yun et al., 2011      | Acral       | / | None | / | 49 | 15 |          |
| Zarembsa et al., 2019 | Acral & Subungual | 15 | V600E | 15 | 50 | 1 - 18 |          |
| Shi et al., 2019      | Acral       | 15 | V600E | 6 | | 29 | 1 - 18 |
|                       | Acral       | 15 | V600K | 1 | | |          |
|                       | Acral       | 15 | K601E | 1 | | |          |
| Yeh et al., 2019      | Acral       | 15 | V600E | 21 | | | 1 - 18 |
|                       | Acral       | 11 | G469S | 1 | | |          |
|                       | Acral       | 15 | K601E | 1 | | |          |
|                       | Acral       | 15 | V600K | 3 | | |          |
| Hilke et al., 2020    | Acral       | 15 | V600E | 1 | | 14 | 1 - 18 |
| Borkowska et al., 2020| Subungual  | 15 | V600E | 1 | | 31 | Hotspots of 11, 15 |
| Zou et al., 2020      | Acral       | 15 | V600E | 10 | | |          |
|                       | Acral       | 15 | V600E, T599R | 1 | | |          |
|                       | Acral       | 15 | L597Q, D565E | 1 | | |          |
|                       | Acral       | 11 | G466A | 1 | | |          |
|                       | Acral       | 15, 10 | V600E, S394P | 1 | | |          |
|                       | Acral       | 11 | G469A | 1 | | |          |
| Cirenajwis et al., 2017| Acral    | 15 | V600E | 1 | | 6 | 1 - 18 |
| Sheen et al., 2020    | Acral       | 15 | V600E | 3 | | 45 | 1 - 18 |
|                       | Acral       | 12 | E501K | 1 | | |          |
| Niu et al., 2013      | Acral       | 15 | V600E | 5 | | 30 | Hotspots of 11, 15 |
| Reference                  | Sub-Type          | Exon | Mutation | Mutations (n) | Samples (n) | Exons Sequenced |
|---------------------------|-------------------|------|----------|---------------|-------------|-----------------|
| (Uhara et al., 2014)      | Acral             | 3    | Q61K     | 4             | 54          | 2, 3            |
|                           |                   | 2    | G12A     | 1             |             |                 |
| (Zebary et al., 2013)     | Acral & Subungual | 2    | G12C     | 1             | 88          | 2, 3            |
|                           |                   | 2    | D33E     | 1             |             |                 |
|                           |                   | 3    | Q61R     | 8             |             |                 |
|                           |                   | 3    | Q61L     | 2             |             |                 |
|                           |                   | 3    | Q61K     | 1             |             |                 |
| (Si et al., 2012)         | Acral             | 2    | G12C     | 1             | 148         | 2, 3            |
|                           |                   | 2    | G13R     | 1             |             |                 |
|                           |                   | 3    | A59D     | 1             |             |                 |
|                           |                   | 3    | Q61K     | 1             |             |                 |
|                           |                   | 3    | Q61L     | 1             |             |                 |
|                           |                   | 3    | Q61R     | 8             |             |                 |
| (Oyama et al., 2015)      | Acral             | None | None     | None          | 20          | 2               |
| (Puig-Butille et al., 2013)| Acral          | 2    | G12V     | 2             | 17          | 2, 3            |
|                           |                   | 3    | Q61H     | 1             |             |                 |
| (Moon et al., 2018)       | Acral             | 3    | Q61R     | 4             | 64          | 1 - 7           |
|                           |                   | 2    | G12D     | 2             |             |                 |
|                           |                   | 3    | S173R    | 1             |             |                 |
|                           |                   | 2    | G13R     | 2             |             |                 |
|                           |                   | 3    | Q61K     | 3             |             |                 |
|                           |                   | 3    | Y64D     | 1             |             |                 |
|                           |                   | 3    | Q61H     | 1             |             |                 |
| (Ashida et al., 2009)     | Acral             | None | None     | None          | 22          | 3               |
| (Sheen et al., 2016)      | Acral             | 2    | G13D     | 2             | 89          | 2, 3            |
|                           |                   | 3    | Q61L     | 6             |             |                 |
|                           |                   | 3    | Q61R     | 1             |             |                 |
| (Akslen et al., 2008)     | Acral             | 2    | G12D     | 3             | 26          | 2, 3            |
|                           |                   | 3    | None     | 0             | 24          |                 |
| Study                      | Type                        | Mutation     | Frequency | Reference |
|----------------------------|-----------------------------|--------------|-----------|-----------|
| (Carvajal et al., 2011)    | Acral                       | T58I, Y64H   | 1         | 84        |
|                            |                             | Q61K         | 4         | 2, 3      |
|                            |                             | Q61H         | 2         |           |
|                            |                             | Q61R         | 1         |           |
| (Dika et al., 2020)        | Acral Melanoma and Subungual| G12C         | 3         |           |
|                            |                             | G12V         | 1         |           |
|                            |                             | G13R         | 1         |           |
| (Gao et al., 2018)         | Acral Melanoma              | G13R         | 2         | 40        |
|                            |                             | G12D         | 2         | 2, 3      |
| (Zaremba et al., 2019)     | Acral and Subungual         | Q61K         | 3         | 50        |
|                            |                             | A155V        |            | 1 - 7     |
|                            |                             | Q61R         | 6         |           |
|                            |                             | Q61H         | 1         |           |
|                            |                             | G12S         | 1         |           |
|                            |                             | G12D         | 2         |           |
| (Shi et al., 2019)         | Acral                       | G13R         | 1         | 29        |
|                            |                             | Q61R         | 2         | 1 - 7     |
| (Yeh et al., 2019)         | Acral                       | G12A         | 1         | 122       |
|                            |                             | G12C         | 3         | 1 - 7     |
|                            |                             | G13D         | 1         |           |
|                            |                             | G13R         | 3         |           |
|                            |                             | Q61H         | 2         |           |
|                            |                             | Q61K         | 7         |           |
|                            |                             | Q61R         | 17        |           |
| (Hilke et al., 2020)       | Acral                       | Q61R         | 1         | 14        |
|                            |                             | G61R         | 19        | 1 - 7     |
|                            | Subungual                   | G12C         | 1         | 31        |
|                            |                             |              |           | Hotspots of 2, 3 |
| Study                  | Location | Acral | 2 | G12C | 1 |
|-----------------------|----------|-------|---|------|---|
| (Zou et al., 2020)    | Acral    |       | 3 | G13D | 1 |
| (Cirenajwis et al., 2017) | Acral   |       | 3 | Q61R | 1 |
| (Sheen et al., 2020)  | Acral    |       | 3 | Q61K | 3 |
| (Niu et al., 2013)    | Acral    |       | 3 | Q61L | 1 |

| Study                  | Location | Acral | 3 | Q61R | 1 |
|-----------------------|----------|-------|---|------|---|
| (Zou et al., 2020)    |          |       | 6 | G13D | 1 |
| (Cirenajwis et al., 2017) |        |       | 6 | G13D | 1 |
| (Sheen et al., 2020)  |          |       | 6 | G13D | 1 |
| (Niu et al., 2013)    |          |       | 6 | G12C | 1 |

| Study                  | Location | Acral | 45| A146T| 1 |
|-----------------------|----------|-------|---|------|---|
| (Zou et al., 2020)    |          |       |   | A146T| 1 |
| (Cirenajwis et al., 2017) |        |       |   | A146T| 1 |
| (Sheen et al., 2020)  |          |       | 5 | A146T| 1 |
| (Niu et al., 2013)    |          |       | 5 | A146T| 1 |

| Study                  | Location | Acral | 30| Hotspots of 2, 3 | 1 |
|-----------------------|----------|-------|---|------------------|---|
| (Zou et al., 2020)    |          |       | 30| Hotspots of 2, 3 | 1 |
| (Cirenajwis et al., 2017) |        |       | 30| Hotspots of 2, 3 | 1 |
| (Sheen et al., 2020)  |          |       | 30| Hotspots of 2, 3 | 1 |
| (Niu et al., 2013)    |          |       | 30| Hotspots of 2, 3 | 1 |
| Reference                  | Sub-Type       | Exon | Mutation          | Mutations (n) | Samples (n) | Exons Sequenced |
|---------------------------|----------------|------|-------------------|---------------|-------------|-----------------|
| (Torres-Cabala et al., 2009) | Acral          | 11   | L576P             | 1             | 39          | 11, 13, 17      |
|                           |                | 17   | D816V             | 1             |             |                 |
|                           |                | 11   | N566-D572 del     | 1             |             |                 |
|                           |                | 13   | N655K             | 1             |             |                 |
|                           |                | 11   | V559A             | 1             |             |                 |
| (Abu-Abed et al., 2012)   | Acral          | 13   | K642E             | 1             | 24          | 11, 13          |
| (Curtin, Busam, Pinkel, & Bastian, 2006) | Acral          | 11   | Y553N             | 1             | 28          | 11, 13, 17, 18  |
|                           |                | 13   | R634W             | 1             |             |                 |
|                           |                | 13   | K642E             | 1             |             |                 |
| (Shim et al., 2017)       | Acral & Subungual | 11   | L576P             | 2             | 28          | Hotspots of 11, 13 |
|                           |                | 13   | V654A             | 1             |             |                 |
| (Dai et al., 2013)        | Acral & Subungual | 9    | A502V             | 1             | 39          | 9, 11, 13, 17   |
|                           |                | 11   | E583_F584insPYDHKWE | 1     |             |                 |
|                           |                | 9    | A507T             | 1             |             |                 |
|                           |                | 13   | V654M             | 1             |             |                 |
|                           |                | 9    | V474I             | 1             |             |                 |
|                           |                | 9    | V489I & A493T     | 1             |             |                 |
|                           |                | 17   | G803D             | 1             |             |                 |
|                           |                | 13   | K642E             | 1             |             |                 |
|                           |                | 17   | D816V             | 1             |             |                 |
| (Kong et al., 2011)       | Acral          | 11   | L576F             | 1             | 193         | 9, 11, 13, 17, 18 |
|                           |                | 11   | L576F             | 1             |             |                 |
|                           |                | 13   | E633G             | 1             |             |                 |
|                           |                | 13   | G648S             | 1             |             |                 |
|                           |                | 13   | K642E             | 1             |             |                 |
|                           |                | 17   | I817T             | 1             |             |                 |
|                           |                | 17   | N822K             | 1             |             |                 |
| Study                        | Phenotype | C844Y | W853stop | L859P | V560D | D572G | V559del | D579del | P577del | K642E | Y823C | L576P | V560D | R588K | D579G | V474I | S639P | K642E | G664S | L576P & I817L | R19H & V654A | V560D | I817L & L576P | Y823D | K642E | L576P | T632I | |
|-----------------------------|-----------|-------|----------|-------|-------|-------|---------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------------|-------|------------|-------|-------|-------|-------|---
| (Zebary et al., 2013)       | Acral & Subungual | 18    | 18       | 18    |       |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 88 | 9, 11, 13, 17, 18 |
| (X. J. Kang et al., 2016)   | Acral     | 11    |          |       | 11    |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 35 | 11, 13 |
| (Colombino et al., 2013)    | Acral     | 11    |          |       |       |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 11 | 9, 11, 13, 17, 18 |
| (Jin et al., 2013)          | Acral     | 9     |          |       | 11    |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 110| 9, 11, 13, 17 |
| (Oyama et al., 2015)        | Acral     | 9     |          |       | 11    |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 20 | 9, 11, 13, 17, 18 |
| (Moon et al., 2018)         | Acral     | 1     |          |       | 11    |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 64 | 1 - 21 |
| (Lin et al., 2013)          | Acral     | none  |          |       |       |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 20 | 11, 13, 17, 18 |
| (Ashida et al., 2009)       | Acral     | 13    |          |       | 17    |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 16 | 11, 13, 17, 18 |
| (Schoenewolf et al., 2012)  | Acral     | 11    |          |       | 13    |       |         |         |         |       |       |       |       |       |       |       |       |       |       |             |             |       |             |       |       |       |       | 41 | 9, 11, 13, 17, 18 |
| Study                                    | Tissue          | Acral | 11 | 13 | 17 | 18 | Other   | Count | Cases          |
|-----------------------------------------|-----------------|-------|----|----|----|----|---------|-------|----------------|
| (Handolias et al., 2010)                | Acral           | 17    |    |    |    |    |         | 16    | 11, 13, 17     |
| (Puntervoll, Molven, & Akslen, 2014)    | Acral Acral     | 11    |    |    |    |    |         | 36    | 9, 11, 13, 17, 18 |
| (Carvajal et al., 2011)                | Acral           | 11    |    |    |    |    |         | 84    | 9, 11, 13, 17, 18 |
| (Comodo-Navarro et al., 2020)          | Acral           | 11    |    |    |    |    |         | 25    | 11, 13         |
| (Dika et al., 2020)                    | Acral Subungual | 13    |    |    |    |    |         | 29    | 9, 11, 13, 17 |
| (Terada, 2010)                         | Acral           | 11    |    |    |    |    |         | 2     | 9, 11, 13, 17 |
| (Yun et al., 2011)                     | Acral           | 11    |    |    |    |    |         | 92    | 11, 13, 17, 18 |
| Study                          | Location | Position | Mutation | Frequency | Hotspots |
|-------------------------------|----------|----------|----------|-----------|----------|
| (Minor et al., 2012)          | Acral    | 13       | N655K    | 1         | 22, 9, 11, 13, 17, 18 |
|                               |          | 11       | E635G    | 1         |          |
|                               |          | 11       | W557R, G565E | 1 |          |
|                               |          | 11       | L576P    | 1         |          |
| (Zaremba et al., 2019)        | Acral and Subungual | 11       | L576P    | 1         | 50, 1 - 21 |
|                               |          | 13       | K642E    | 1         |          |
|                               |          | 18       | A829P    | 1         |          |
| (Shi et al., 2019)            | Acral    | 11       | L576P    | 1         | 29, 1 - 21 |
|                               |          | 11       | Y578C    | 1         |          |
|                               |          | 17       | D820Y    | 1         |          |
|                               |          | 16       | E761stop | 1         |          |
| (Yeh et al., 2019)            | Acral    | 17       | D816V    | 1         | 122, 1 - 21 |
|                               |          | 17       | D820G    | 1         |          |
|                               |          | 17       | D820Y    | 1         |          |
|                               |          | 13       | K642E    | 3         |          |
|                               |          | 11       | L576P    | 4         |          |
|                               |          | 17       | N822K    | 1         |          |
|                               |          | 11       | T574delinsTQLPYDQT | 1 |          |
|                               |          | 11       | V559D    | 1         |          |
|                               |          | 11       | W557R    | 1         |          |
| (Hilke et al., 2020)          | Acral    | 13       | K642E    | 1         | 14, 1 - 21 |
|                               |          | 13       | S628G    | 1         |          |
|                               |          | 8        | C443S    | 1         |          |
| (Borkowska et al., 2020)      | Subungual| 11       | Gln575_Pro577del | 1 | 31, Hotspots of 11, 13 |
|                               |          | 11       | L576P    | 1         |          |
|                               |          | 11       | L576P, V559D | 1 |          |
|                               |          | 11       | Asp579del | 1         |          |
| (Zou et al., 2020)            | Acral    | 17       | D816H    | 1         | 54, 1 - 21 |
|                               |          | 11       | V559D    | 1         |          |
|                               |          | 11       | P573_D579dup | 1 |          |
|                               |          | 17       | S840N, D820V | 1 |          |
|                               |          | 11       | L576P    | 2         |          |
|                               |          | 17       | A829P    | 1         |          |
|                               |          | 13       | K642E    | 1         |          |
| (Cirenajwis et al., 2017)     | Acral    | 13       | K642E    | 1         | 6, 1 - 21 |
|                               |          | 17       | N822K    | 1         |          |
| Study (Sheen et al., 2020) | Acral | 17 | N822K | 2 | 13 | K642E | 2 | 45 | 1 - 21 |
|---------------------------|-------|----|--------|----|----|--------|----|-----|-------|
|                           |       | 17 | D820Y  | 1 | 3  | T84M   | 1 |     |       |
|                           |       | 11 | L576P  | 4 |    |        |   |     |       |
|                           |       | 11 | D572G  | 1 |    |        |   |     |       |
| Study (Niu et al., 2013)  | Acral | 13 | K642E  | 1 | 11 | L576P  | 1 | 30  | Hotspots of 11, 13 |
Abu-Abed, S., Pennell, N., Petrella, T., Wright, F., Seth, A., & Hanna, W. (2012). KIT gene mutations and patterns of protein expression in mucosal and acral melanoma. *J Cutan Med Surg, 16*(2), 135-142. doi:10.2310/7750.2011.11064

Akslen, L. A., Puntervoll, H., Bachmann, I. M., Straume, O., Vuhahula, E., Kumar, R., & Molven, A. (2008). Mutation analysis of the EGFR-NRAS-BRAF pathway in melanomas from black Africans and other subgroups of cutaneous melanoma. *Melanoma Res, 18*(1), 29-35. doi:10.1097/CMR.0b013e3282f32517

Ashida, A., Takata, M., Murata, H., Kido, K., & Saida, T. (2009). Pathological activation of KIT in metastatic tumors of acral and mucosal melanomas. *Int J Cancer, 124*(4), 862-868. doi:10.1002/ijc.24048

Borkowska, A., Szumera-Cieckiewicz, A., Spalek, M., Teterycz, P., Czarnecka, A., Kowalik, A., & Rutkowski, P. (2020). Mutation profile of primary subungual melanomas in Caucasians. *Oncotarget, 11*(25), 2404-2413. doi:10.18632/oncotarget.27642

Carvajal, R. D., Antonescu, C. R., Wolchok, J. D., Chapman, P. B., Roman, R. A., Teitcher, J., . . . Schwartz, G. K. (2011). KIT as a therapeutic target in metastatic melanoma. *JAMA, 305*(22), 2327-2334. doi:10.1001/jama.2011.746

Choi, Y. D., Chun, S. M., Jin, S. A., Lee, J. B., & Yun, S. J. (2013). Amelanotic acral melanomas: clinicopathological, BRAF mutation, and KIT aberration analyses. *J Am Acad Dermatol, 69*(5), 700-707. doi:10.1016/j.jaad.2013.06.035

Cirenajwis, H., Lauss, M., Ekedahl, H., Torngren, T., Kvist, A., Saal, L. H., . . . Jonsson, G. (2017). NF1-mutated melanoma tumors harbor distinct clinical and biological characteristics. *Mol Oncol, 11*(4), 438-451. doi:10.1002/1878-0261.12050

Colombino, M., Lissia, A., Franco, R., Botti, G., Ascierto, P. A., Manca, A., . . . Cosso, U. (2013). Unexpected distribution of cKIT and BRAF mutations among southern Italian patients with sinonasal melanoma. *Dermatology, 226*(3), 279-284. doi:10.1159/000350683

Dai, B., Cai, X., Kong, Y. Y., Yang, F., Shen, X. X., Wang, L. W., & Kong, J. C. (2013). Analysis of KIT expression and gene mutation in human acral melanoma: with a comparison between primary tumors and corresponding metastases/recurrences. *Hum Pathol, 44*(8), 1472-1478. doi:10.1016/j.humpath.2013.01.007

Dika, E., Veronesi, G., Altimari, A., Riefolo, M., Ravaiol, G. M., Piraccini, B. M., . . . Patrizi, A. (2020). BRAF, KIT, and NRAS Mutations of Acral Melanoma in White Patients. *Am J Clin Pathol, 153*(5), 664-671. doi:10.1093/ajcp/azp209

Handolias, D., Hamilton, A. L., Salemi, R., Tan, A., Moodie, K., Kerr, L., . . . McArthur, G. A. (2010). Clinical responses observed with imatinib or sorafenib in melanoma patients expressing mutations in KIT. *Br J Cancer, 102*(8), 1219-1223. doi:10.1038/sj.bjc.6605635

Hilke, F. J., Sinnberg, T., Gschwind, A., Niessner, H., Demidov, G., Amaral, T., . . . Forschner, A. (2020). Distinct Mutation Patterns Reveal Melanoma Subtypes and Influence Immunotherapy Response in Advanced Melanoma Patients. *Cancers (Basel), 12*(9). doi:10.3390/cancers12092359

Jin, S. A., Chun, S. M., Choi, Y. D., Kweon, S. S., Jung, S. T., Shim, H. J., & Yun, S. J. (2013). BRAF mutations and KIT aberrations and their clinicopathological correlation in 202 Korean melanomas. *J Invest Dermatol, 133*(2), 579-582. doi:10.1038/jid.2012.338

Kang, X., Zeng, Y., Liang, J., Li, J., Ren, D., Chai, L., . . . Wang, W. (2018). Aberrations and clinical significance of BRAF in malignant melanoma: A series of 60 cases in Chinese Uyghur. *Medicine (Baltimore), 97*(1), e9509. doi:10.1097/MD.0000000000009509

Kang, X. J., Shi, X. H., Chen, W. J., Pu, X. M., Sun, Z. Z., Halifu, Y., . . . Ren, D. Y. (2016). Analysis of KIT mutations and c-KIT expression in Chinese Uyghur and Han patients with melanoma. *Clin Exp Dermatol, 41*(1), 81-87. doi:10.1111/ced.12659

References
Zebary, A., Omholt, K., Vassilaki, I., Hoiom, V., Linden, D., Viberg, L., . . . Hansson, J. (2013). KIT, NRAS, BRAF and PTEN mutations in a sample of Swedish patients with acral lentiginous melanoma. *J Dermatol Sci, 72*(3), 284-289. doi:10.1016/j.jdermsci.2013.07.013

Zou, Z., Ou, Q., Ren, Y., Lv, Q., Qin, L., Zhao, L., . . . Liu, B. (2020). Distinct genomic traits of acral and mucosal melanomas revealed by targeted mutational profiling. *Pigment Cell Melanoma Res, 33*(4), 601-611. doi:10.1111/pcmr.12865