

CELL EXCHANGE #396
FEBRUARY 8, 2017

Cells 1581-1584

The results for Cell Exchange #396 are summarized in Table 9 and Table 10. Molecular typing results for individual laboratories are listed in Ta-

bles 11 -14 for each sample and individual serological results for each sample are listed in Table 15.

Cell 1581. The reported type for this sample from a Chinese donor is A*02:06(A2)-A*11:01(A11)-B*35:05(B35)-B*46:01(B46)-C*01:02-(Cw1)-C*04:01(Cw4). Likely class I associations present in this cell are A*02:06-B*35:05-C*04:01 and A*11:01-B*46:01-C*01:02, observed in Asian populations, with respective frequencies of 0.00028 and 0.00568. A*02:06 was reported in complete consensus, with NGS assigning A*02:06:01:01. A*11:01 was also reported in complete consensus, with 4 labs assigning A*11:01:01. B*35:05 (100%) and B*46:01 (100%) were reported as the B-locus types, with B*35:05:01 and B*46:01:01 each assigned by 5 labs. The C-locus types were reported as C*01:02 (100%) and C*04:01 (100%), with 4 labs assigning C*01:02:01 and C*04:01:01. By serology, A2 (100%), A11 (100%), B35 (100%), B46 (94%), Cw1 (44%), and Cw4 (44%) were all well assigned.

Cell 1582. The reported type for this sample from a Hispanic donor is A*02:01(A2)-A*32:01(A32)-B*27:02(B27)-B*52:01(B52)-C*02:02(Cw2)-C*03:03(Cw3). The likely class I associations present in this cell are A*02:01-B*52:01-C*03:03 and A*32:01-B*27:02-C*02:02, with respective frequencies of 0.00520 and 0.00050, in Hispanics. A*02:01 and A*32:01 were each reported in complete consensus, with 5 labs assigning A*02:01:01 and A*32:01:01. B*27:02 and B*52:01 were also reported in complete consensus, with 5 labs reporting B*27:02:01 and B*52:01:02. C*02:02 (100%) and C*03:03 (100%) were reported as the C-locus types. The antigens encoded by these alleles were well detected by serology and reported as A2 (100%), A32 (100%), B27(100%), B52 (9%), Cw2(47%), and Cw3 (47%).

Cell 1583. The reported type for this sample from a donor of mixed heritage is A*02:01(A2)-A*32:01(A32)-B*27:05(B27)-B*44:02(B44)-C*02:02(Cw2)-C*05:01(Cw5). Likely class I associations in this cell are A*02:01-B*27:05-C*02:02 and A*32:01-B*44:02-C*05:01, observed across all populations, most commonly in Caucasians, with respective frequencies of 0.00706 and 0.00481. The A-locus types in this samples were reported as A*02:01 (100%) and A*32:01 (100%), with 5 labs reporting A*02:01:01 and A*32:01:01. B*27:05 and B*44:02 were each reported in complete consensus, with 4 labs assigning B*27:05:02 and B*44:02:01. C*02:02 (93%) and C*05:01 (100%) were the reported C-locus types. A2 (100%), A32 (100%), B27 (100%), B44 (100%), Cw2 (44%), and Cw5 (39%) were assigned by serology.

Cell 1584. The reported type for this sample from a donor of mixed Hispanic and Caucasian ancestry is A*02:01(A2)-A*03:02(A3)-B*27:05(B27)-B*51:02(B51)-C*01:02(Cw1)-C*15:02. Previous exchange data from family studies reveal the haplotypes in this cell to be A*02:01-B*27:05-C*01:02 and A*03:02-B*51:02-C*15:02. This sample was first typed back in 1987 as cell 538. Since then, it has been typed numerous times in the exchange as cell 996 (1999) and as extracts 38 (1998), 148 (2000), and 572 (2013). In this present retyping, A*02:01 and A*03:02 were each assigned in complete consensus, with 5 labs assigning A*02:01:01 and 6 labs assigning A*03:02:01. The B-locus types were reported as B*27:05 (93%) and B*51:02 (93%). C*01:02 (100%) and C*15:02 (100%) were the reported C-locus types. By serology, A2 (100%), A3 (100%), B27 (100%), B51 (94%), and Cw1 (50%) were all reported with good agreement.

NEXT MAILING DATE: March 8, 2017

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