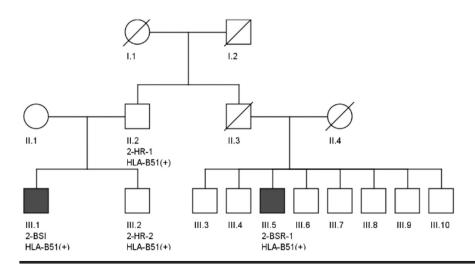
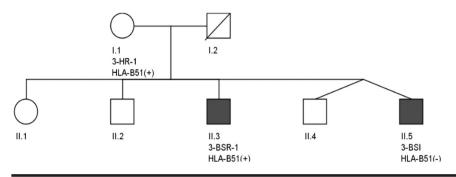


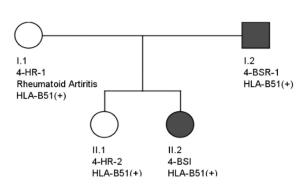
**Supplementary Fig. S1.** Pedigree of Family 1. 1-BSI: index patient; HLA-B51(+), 1-BSR-1: first degree relative with BS; HLA-B51(+), 1-HR-1: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



**Supplementary Fig. S2.** Pedigree of Family 2. 2-BSI: index patient; HLA-B51(+), 2-BSR-1: third degree relative with BS; HLA-B51(+), 2-HR-1: first degree healthy relative; HLA-B51(+), 2-HR-2: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.

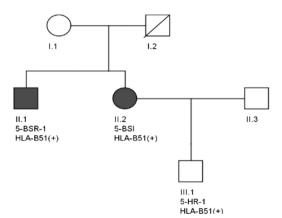


**Supplementary Fig. S3.** Pedigree of Family 3. 3-BSI: index patient; HLA-B51(-), 3-BSR-1: first degree relative with BS; HLA-B51 (+), 3-HR-1: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



#### Supplementary Fig. S4. Pedigree of Family 4.

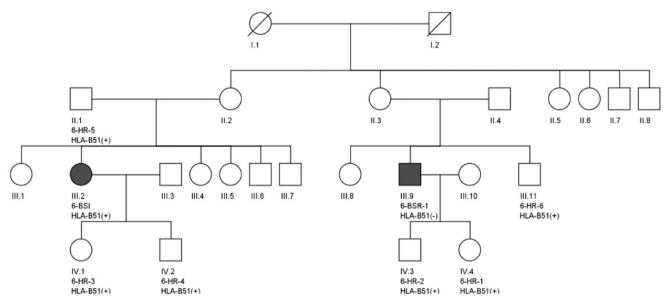
4-BSI: index patient; HLA-B51(+), 4-BSR-1: first degree relative with BS; HLA-B51(+), 4-HR-1: first degree relative with RA; HLA-B51(+), 4-HR-2: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



# Supplementary Fig. S5. Pedigree of Family 5.

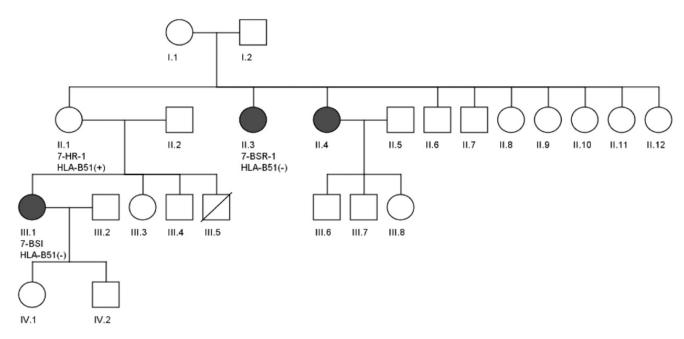
5-BSI: index patient; HLA-B51(+), 5-BSR-1: first degree relative with BS; HLA-B51(+), 5-HR-1: first degree relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.

# HLA-B gene methylation and expression in BS / M. Özkılınç Önen et al.



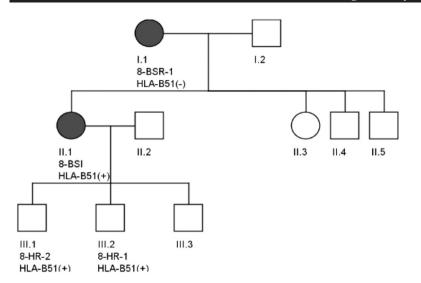
#### Supplementary Fig. S6. Pedigree of Family 6.

6-BSI: index patient; HLA-B51(+), 6-BSR-1: third degree relative with BS; HLA-B51(-), 6-HR-1; fourth degree healthy relative; HLA-B51(+), 6-HR-2; fourth degree healthy relative; HLA-B51(+), 6-HR-3: first degree healthy relative; HLA-B51(+), 6-HR-4: first degree healthy relative; HLA-B51(+), 6-HR-5: first degree healthy relative; HLA-B51(+), 6-HR-6: third degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.

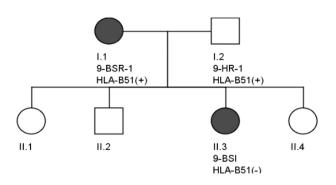


#### **Supplementary Fig. S7.** Pedigree of Family 7.

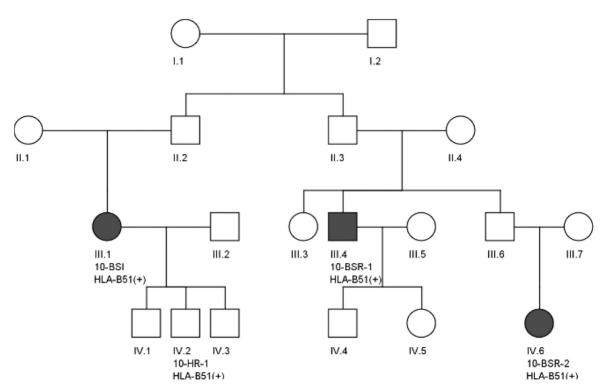
7-BSI: index patient; HLA-B51(-), 7-BSR-1; second degree relative with BS; HLA-B51(-), 7-HR-1: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



**Supplementary Fig. S8.** Pedigree of Family 8. 8-BSI: index patient; HLA-B51(+), 8-BSR-1: first degree relative with BS; HLA-B51(-), 8-HR-1; first degree healthy relative; HLA-B51(+), 8-HR-2: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.

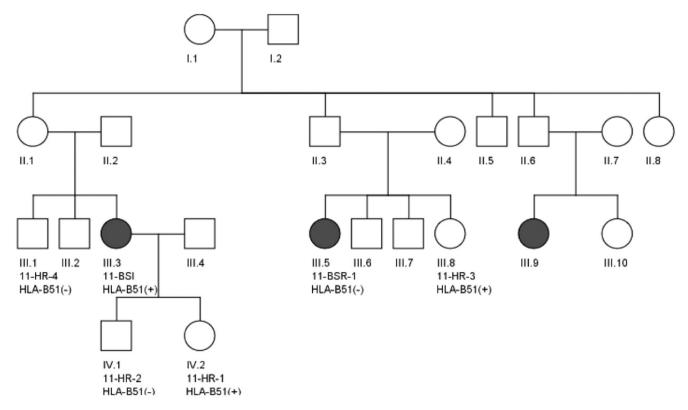


**Supplementary Fig. S9.** Pedigree of Family 9. 9-BSI: index patient; HLA-B51(-), 9-BSR-1: first degree relative with BS; HLA-B51(+), 9-HR-1: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



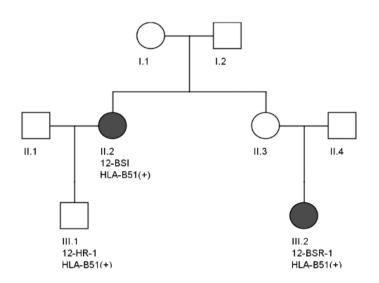
Supplementary Fig. S10. Pedigree of Family 10.

10-BSI: index patient; HLA-B51(+), 10-BSR-1: third degree relative with BS; HLA-B51(+), 10-BSR-2: third degree relative with BS; HLA-B51(+), 10-HR-1: first degree healthy relative; HLA-B51(+) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



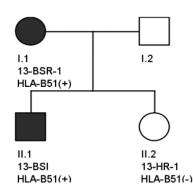
## Supplementary Fig. S11. Pedigree of Family 11.

11-BSI: index patient; HLA-B51(+), 11-BSR-1: third degree relative with BS; HLA-B51(-), 11-HR-1: first degree healthy relative; HLA-B51(-), 11-HR-2: first degree healthy relative; HLA-B51(-), 11-HR-3: third degree healthy relative; HLA-B51(+), 11-HR-4: first degree healthy relative; HLA-B51(-) Full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



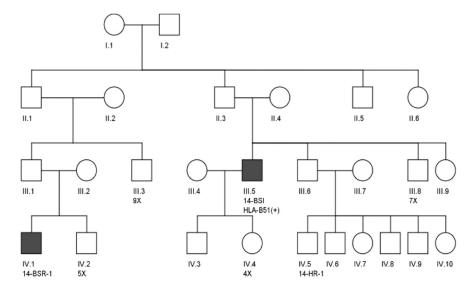
## Supplementary Fig. S12. Pedigree of Family 12.

12-BSI: index patient; HLA-B51(+), 12-BSR-1: second degree relative with; HLA-B51(+), 12-HR-1: first degree healthy relative; HLA-B51(+): full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



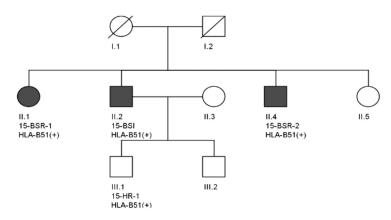
**Supplementary Fig. S13.** Pedigree of Family 13.

13-BSI: index patient; HLA-B51(+), 13-BSR-1: first degree relative with BS; HLA-B51(+), 13-HR-1: first degree healthy relative; HLA-B51(-): full black filled symbol, clinically proven BS phenotype; open symbol, non-BS.



## Supplementary Fig. S14. Pedigree of Family 14.

14-BSI: index patient; HLA-B51(+), 14-BSR-1: fourth degree relative with BS; HLA-B51(+), 14-HR-1: second degree healthy relative; HLA-B51(-) full black filled symbol: clinically proven BS phenotype; open symbol: non-BS.



# Supplementary Fig. S15. Pedigree of Family 15.

15-BSI: index patient; HLA-B51(+); 15-BSR-1: first degree relative with BS; HLA-B51(+), 15-BSR-2: first degree relative with BS; HLA-B51(+), 15-HR-1: first degree healthy relative; HLA-B51(+): full black filled symbol, clinically proven BS phenotype; open symbol: non-BS.