Genetic and molecular markers of proteinuria and glomerulosclerosis

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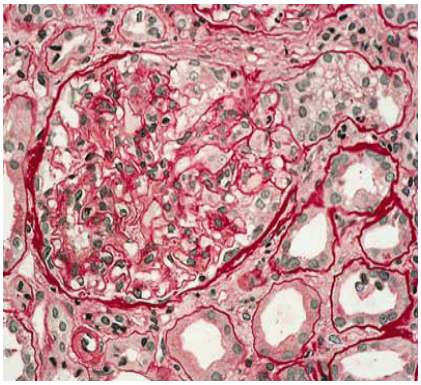
Colour figures

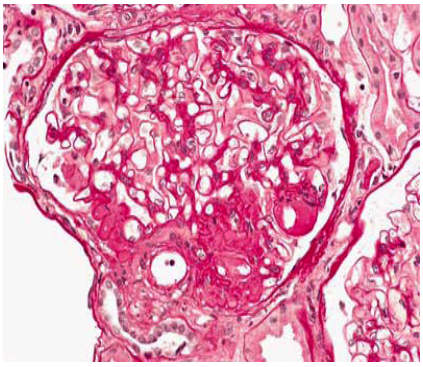
D



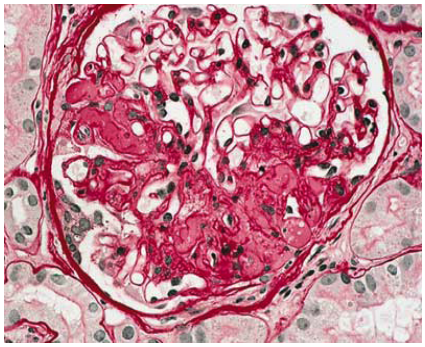
tip FSGS

cellular FSGS

collapsing FSGS

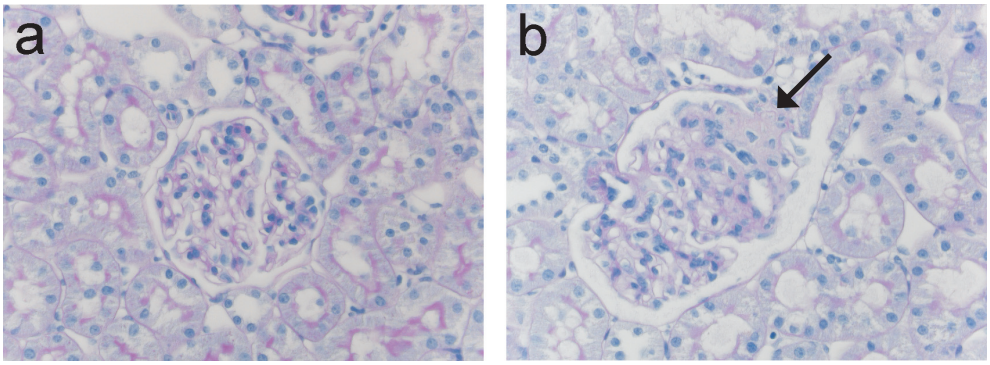


perihilar FSGS

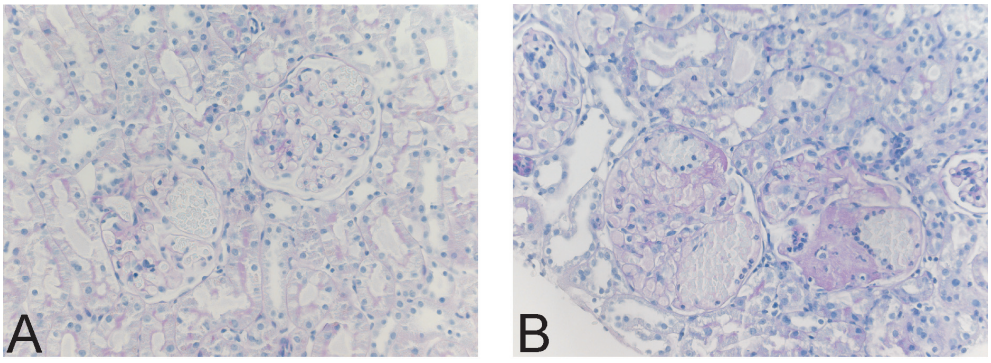


FSGS NOS

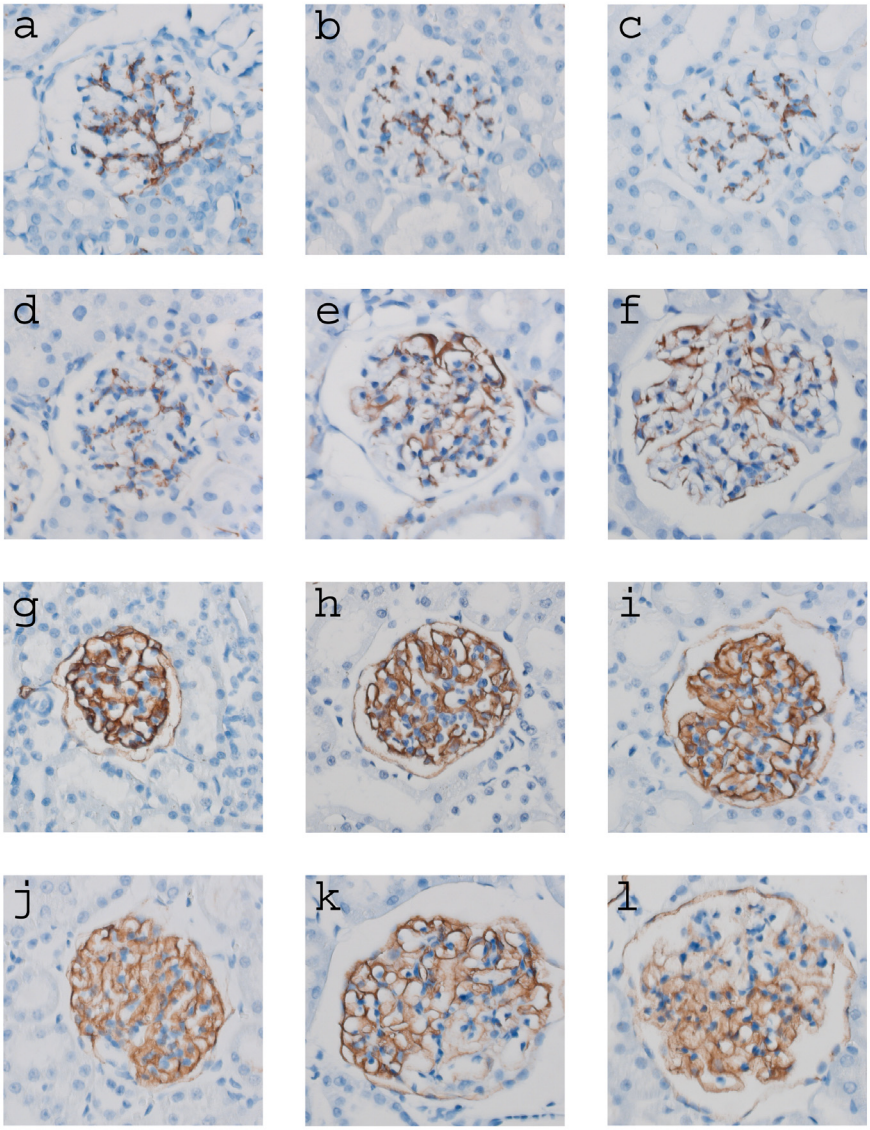
Chapter 1, figure 4. Typical glomerular morphology of the five FSGS variants according to the "Columbia" classification. Published with permission from Stokes *et al.*[153]



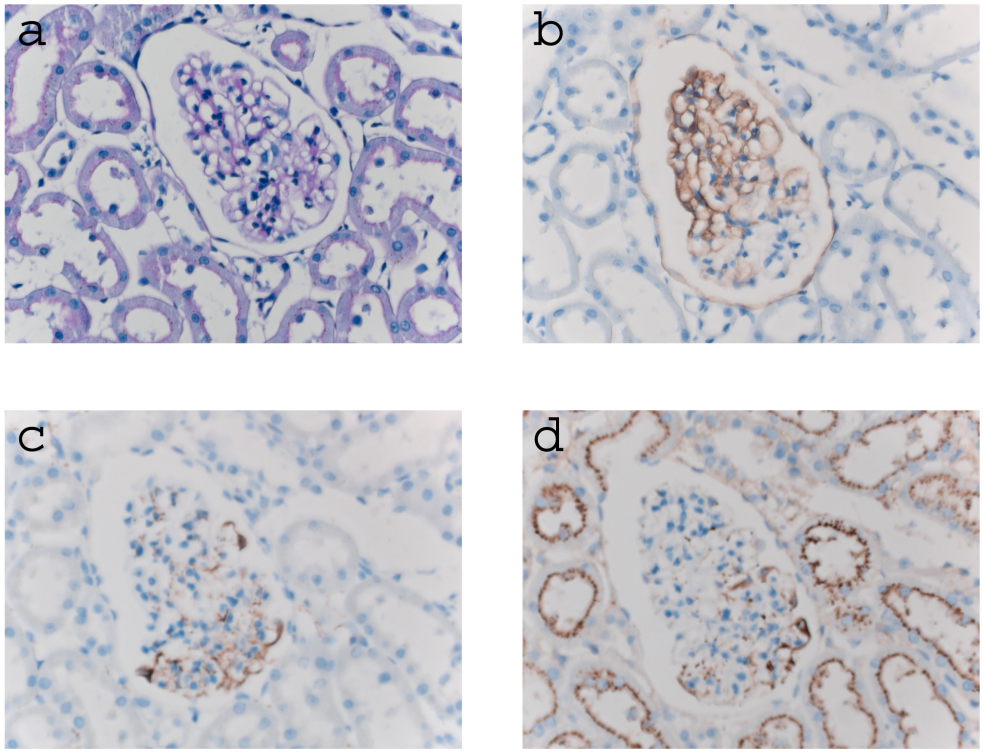
Chapter 3, figure 3. Histological images representing the range of glomerular damage at *day 21* in backcross rats. Periodic acid-Schiff staining. a) normal glomerulus; b) segmental sclerosis with adhesion of the tuft to Bowman's capsule (arrow).



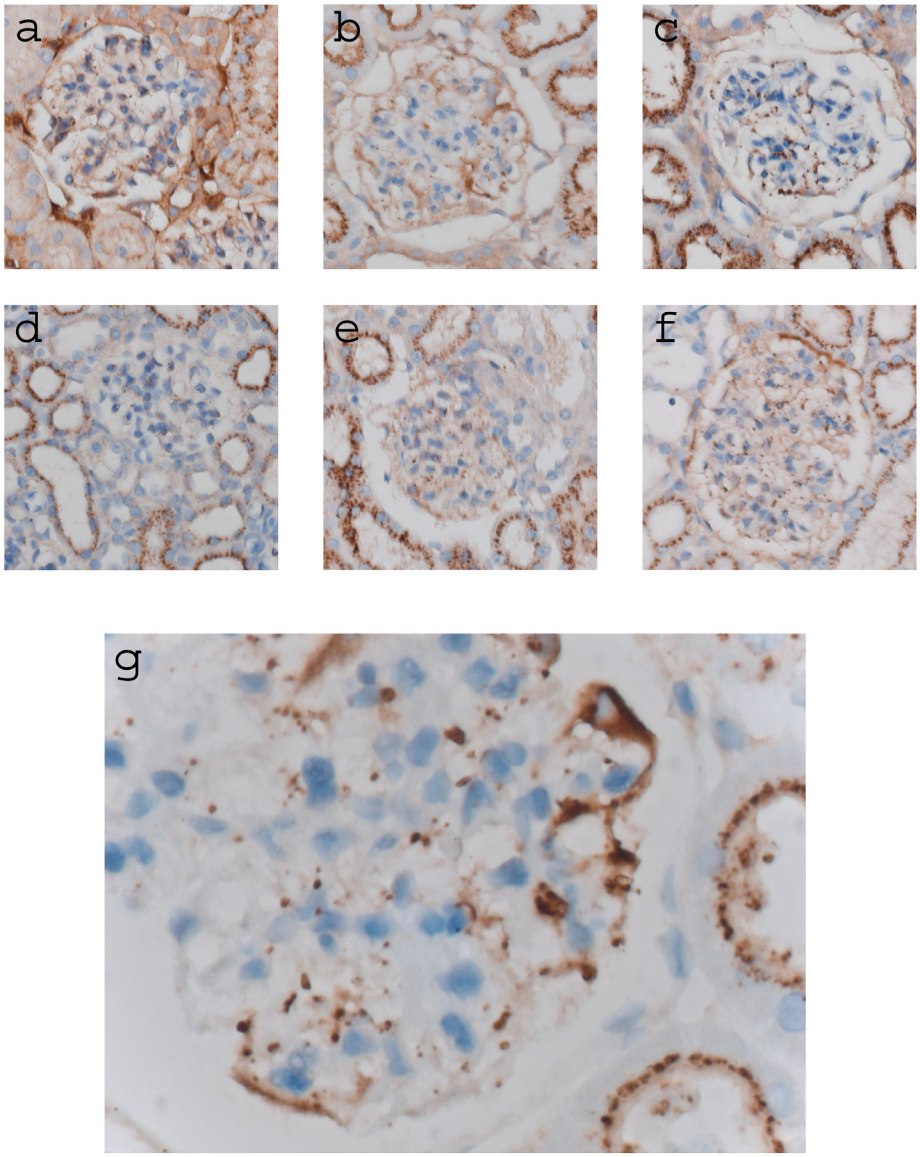
Chapter 4, figure 4. Examples of glomeruli with microaneurysms in Lew/Maa bone marrow chimeras. Fewer microaneurysms were found in the kidneys of Lew/Maa rats with bone marrow from Lew/Moll (B) compared to the kidneys of Lew/Maa rats with bone marrow from Lew/Maa (A).



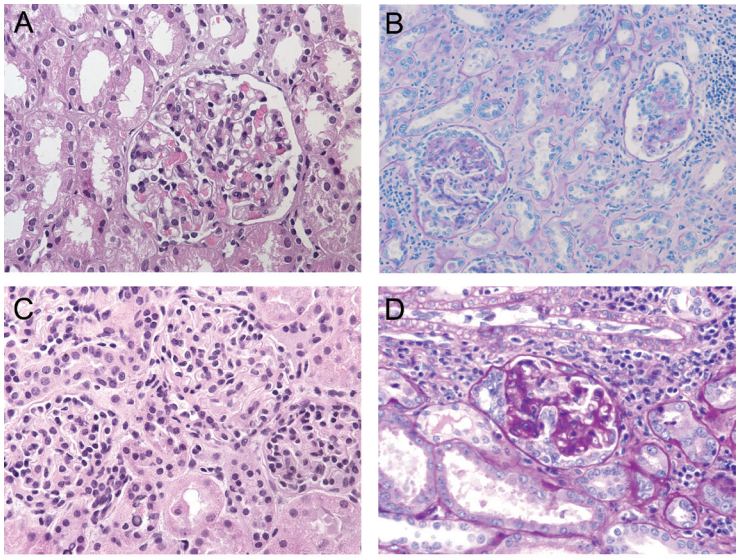
Chapter 5, figure 3. Expression of desmin and podoplanin proteins in male MWF and male SHR. Representative photographs are of desmin staining in SHR (a-c) and MWF rats (d-f) at 4 weeks (a and d), 6 weeks (b and e), and 8 weeks (c and f) of age. At 6 and 8 weeks of age, MWF rats exhibited focal and segmental expression of desmin protein in podocytes. Protein expression in SHR did not change. Representative photographs of podoplanin staining in SHR (g-i) and MWF rats (j-l) at 4 weeks (g and j), 6 weeks (h and k), and 8 weeks (i and l) of age. At 6 and 8 weeks of age, MWF rats exhibited focal and segmental loss of podoplanin protein expression in podocytes. Protein expression in SHR did not change.



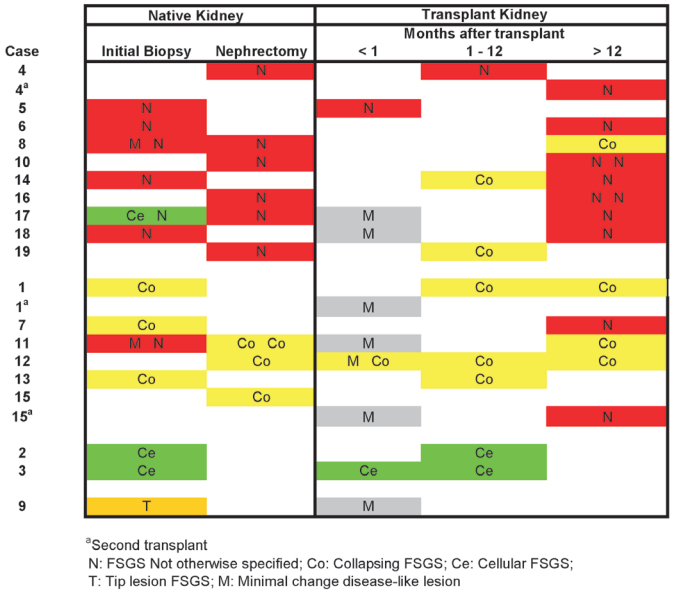
Chapter 5, figure 4. Sequential kidney sections from an 8-week-old male MWF rat showing staining for periodic acid-Schiff (a), podoplanin (b), desmin (c), and albumin (d).



Chapter 5, figure 5. Expression of albumin protein in male and female MWF rats and male SHR. a-f: Representative photographs of albumin expression in MWF (a-c) and SHR (d-f) at 4 weeks (a and d), at 6 weeks (b and e), and 8 weeks (c and f) of age. Albumin droplets were present in podocytes of 6- and 8-week-old male and female MWF rats. g: higher magnification of a glomerulus of a male MWF rat showing albumin droplets in podocytes.



Chapter 6, figure 1. Representative histologic pictures of renal biopsies of patient 11. Both in native and transplant kidney, minimal change-like lesions are present in the first biopsy, followed by development of collapsing FSGS at a later time point. (A) Minimal change-like lesion in native kidney. (B) Collapsing FSGS in nephrectomy of native kidney. (C) Minimal change-like lesion a few days after renal transplantation. (D) Collapsing FSGS in renal allograft nephrectomy.



Chapter 6, figure 2. FSGS variants in patients' native and transplant kidneys. For each patient, the FSGS variant and time to biopsy after transplantation are shown.