

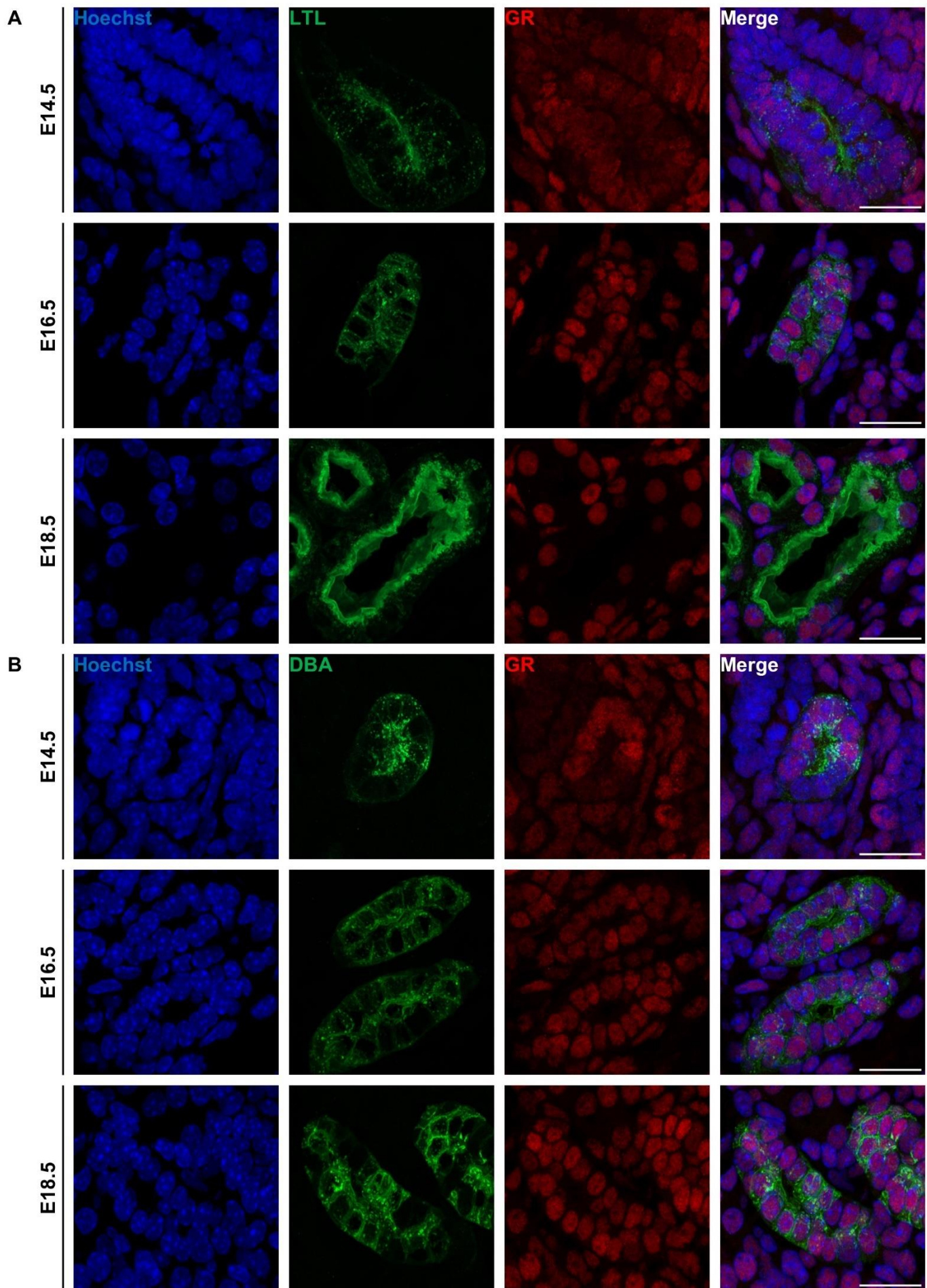
Disrupted glucocorticoid receptor cell signalling causes a ciliogenesis defect in the fetal mouse renal tubule

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Appendix

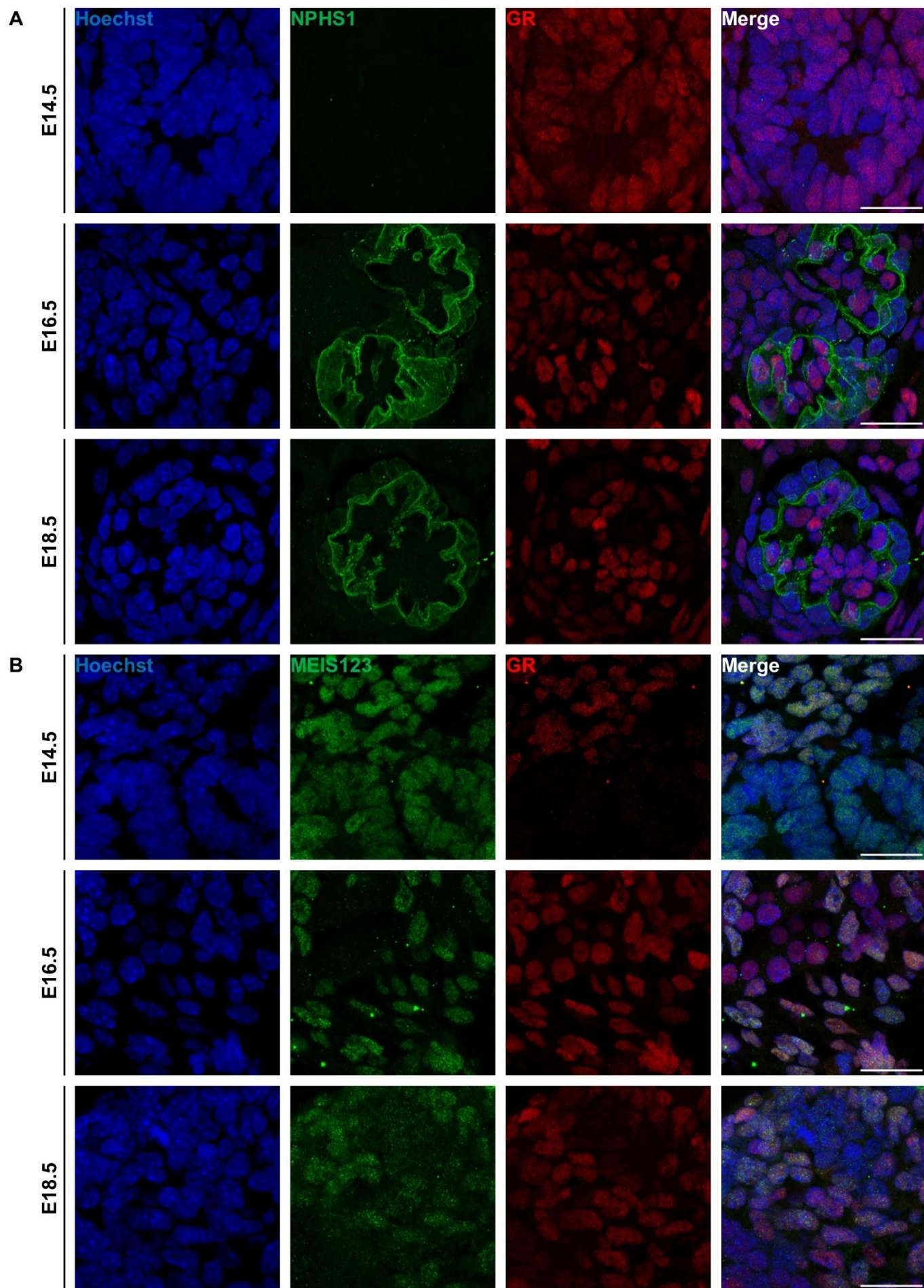
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Appendix Figure S1: Glucocorticoid localisation in fetal mouse kidney proximal tubule and collecting duct cells at E14.5, E16.5 and E18.5

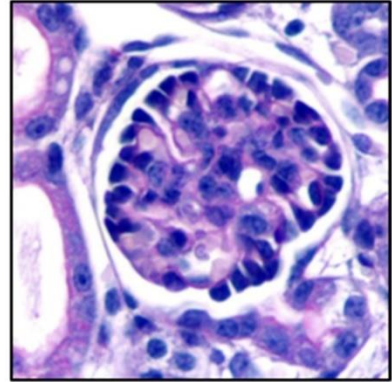
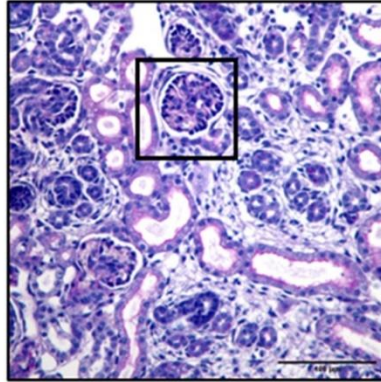
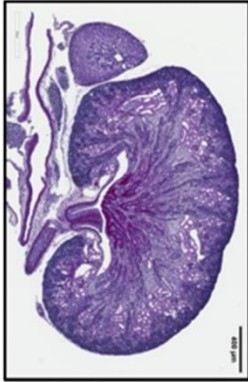
- A. Immunofluorescence of glucocorticoid receptor (GR) in fetal kidney proximal tubule cells at E14.5, E16.5 and E18.5. Sections were stained with Hoechst (blue, nucleus), Lotus Tetragonolobus Lectin (LTL) (green, proximal tubule) and GR (red, GR). Slides were imaged with a Zeiss LSM 980 confocal microscope (63x objective, 2x digital zoom). Scale bar represents 20 μm . All images are representative of E14.5 (n=3), E16.5 (n=4), E18.5 (n=4) animals per age group.
- B. Immunofluorescence of glucocorticoid receptor (GR) in fetal kidney collecting duct cells at E14.5, E16.5 and E18.5. Sections were stained with Hoechst (blue, nucleus), Dolichos Biflorus Agglutinin (DBA) (green, collecting duct) and GR (red, GR). Slides were imaged with a Zeiss LSM 980 confocal microscope (63x objective, 2x digital zoom). Scale bar represents 20 μm . All images are representative of E14.5 (n=3), E16.5 (n=4), E18.5 (n=4) animals per age group.



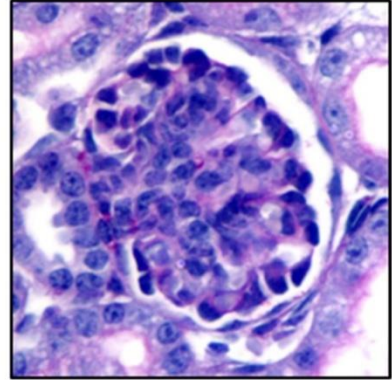
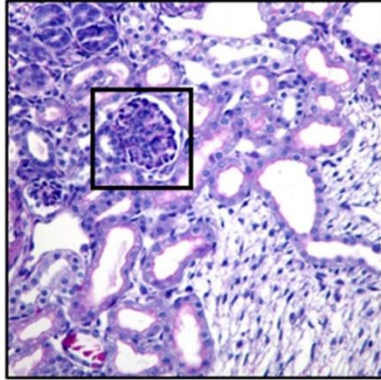
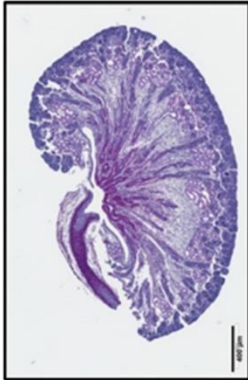
Appendix Figure S2: Glucocorticoid localisation in fetal mouse kidney podocytes and stroma cells at E14.5, E16.5 and E18.5

- A. Immunofluorescence of glucocorticoid receptor (GR) in fetal kidney podocyte cells at E14.5, E16.5 and E18.5. Sections were stained with Hoechst (blue, nucleus), nephrin (NPHS1) (green, podocyte) and GR (red, GR). Slides were imaged with a Zeiss LSM 980 confocal microscope (63x objective, 2x digital zoom). Scale bar represents 20 μ m. All images are representative of E14.5 (n=3), E16.5 (n=4), E18.5 (n=4) animals per age group.
- B. Immunofluorescence of glucocorticoid receptor (GR) in fetal kidney stroma cells at E14.5, E16.5 and E18.5. Sections were stained with Hoechst (blue, nucleus), MEIS123 (green, stroma) and GR (red, GR). Slides were imaged with a Zeiss LSM 980 confocal microscope (63x objective, 2x digital zoom). Scale bar represents 20 μ m. All images are representative of E14.5 (n=3), E16.5 (n=4), E18.5 (n=4) animals per age group.

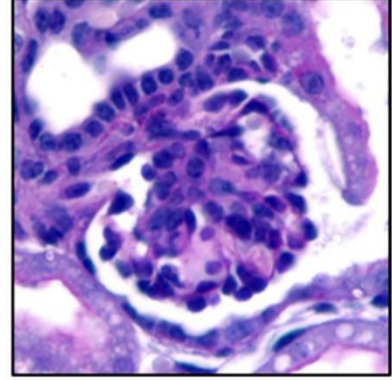
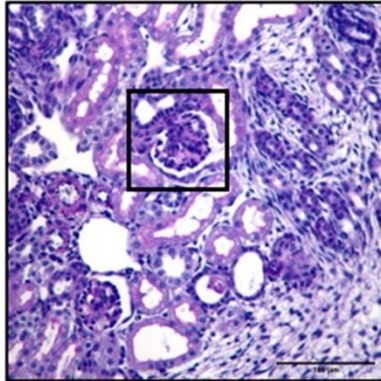
Control



GR-null



GRcdKO



Appendix Figure S3: PAS staining of E18.5 fetal kidneys from conditional GR-null mice

Histological section of E18.5 fetal mouse kidneys were PAS stained for control, GR-null and HoxB7Cre-GR flox (GRcdKO) mice. Images are shown 10x, 20x and 100x magnification, scale bar represents 400 μm .