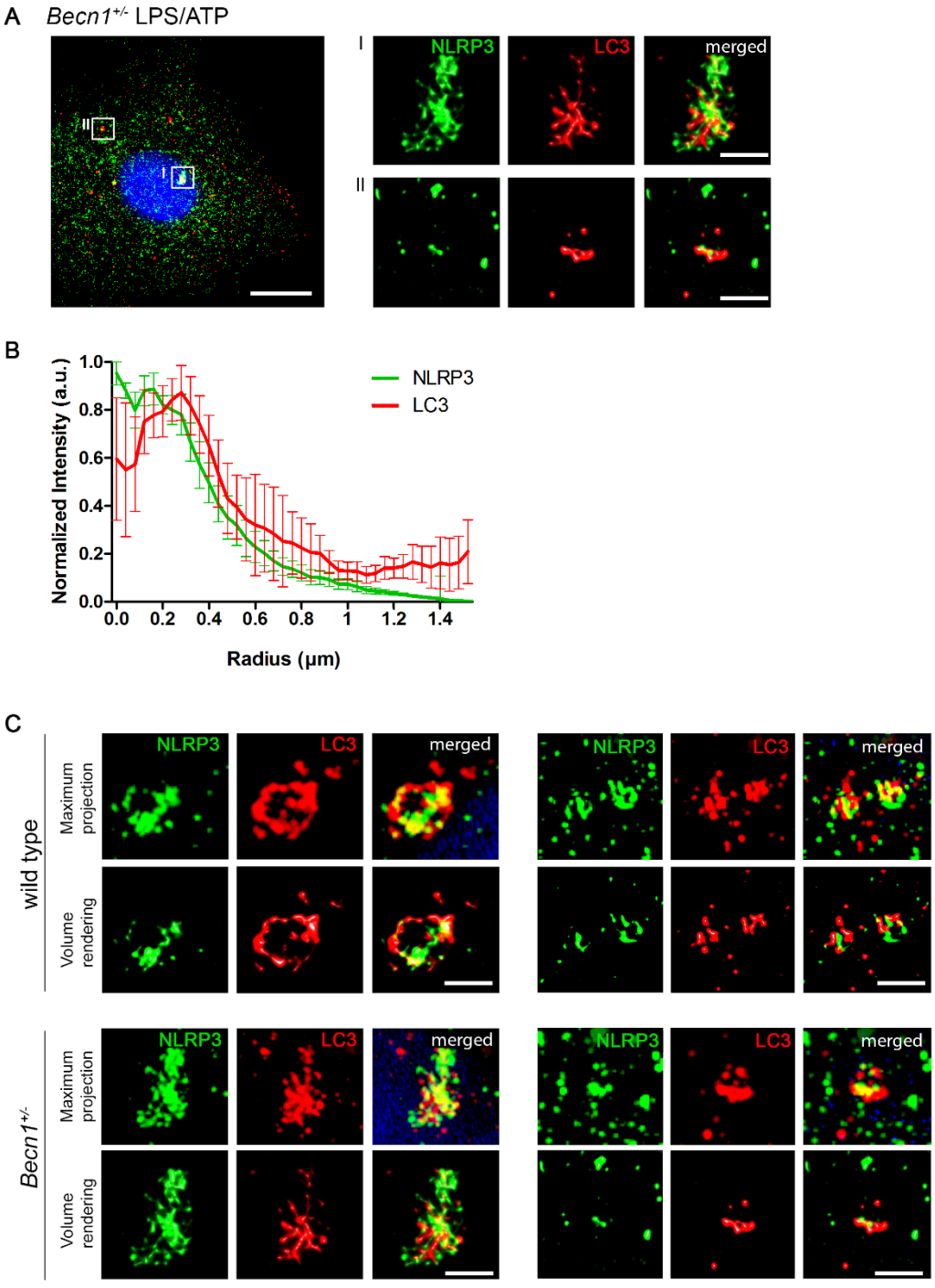
Appendix – Table of contents

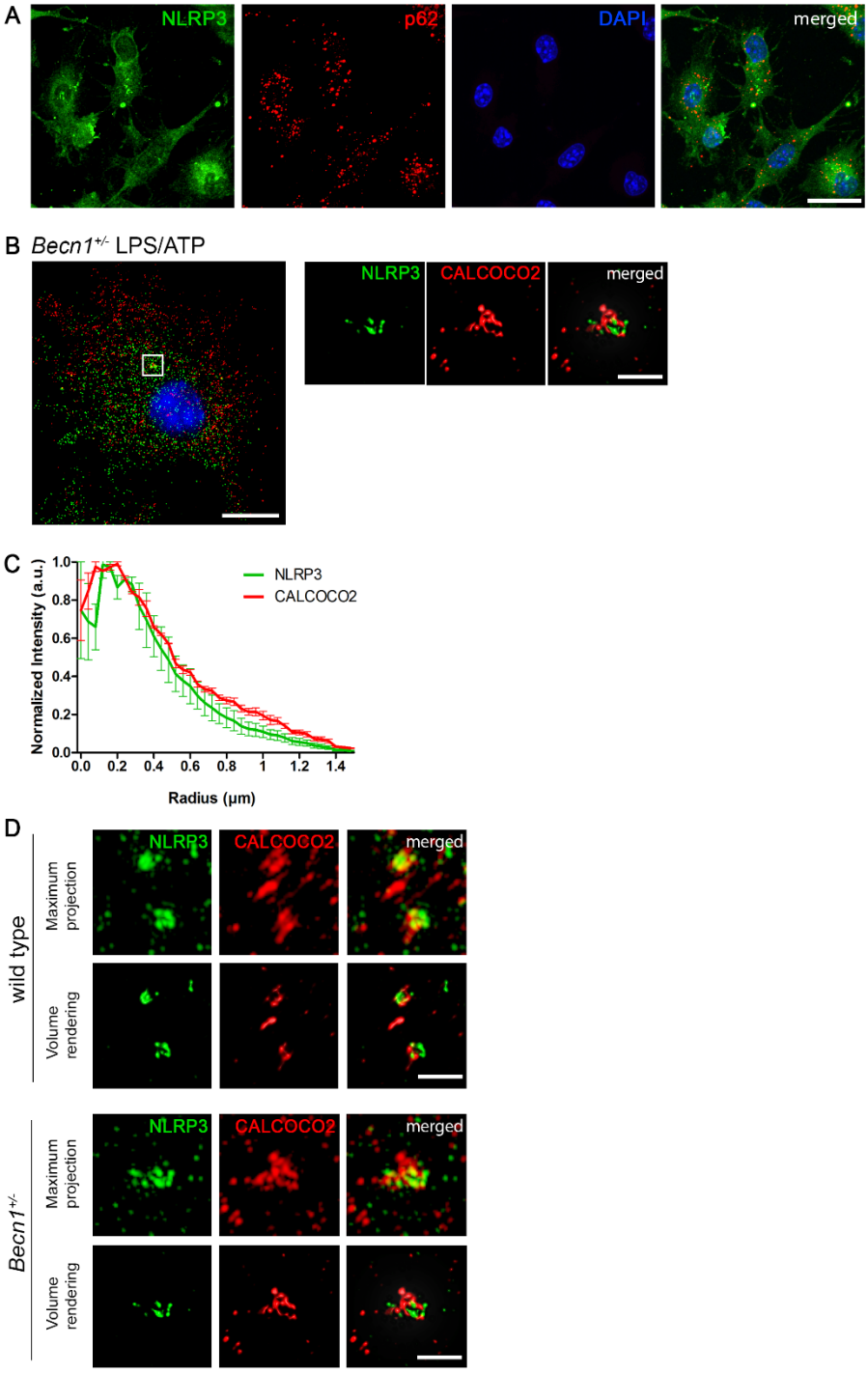
Appendix Figure S1



Appendix Figure S1.

(**A**) LPS/ATP treated *Becn1*$^{+/-}$ microglia were stained for NLRP3 (green) and LC3 (red) and analysed by super resolution microscopy (SIM). LC3-positive autophagosomes clustering around NLRP3 aggregates of different sizes are visible. 3D volume rendering of large (**I**) and small (**II**) NLRP3 aggregates in the magnified ROIs showed indeed engulfment of NLRP3 by autophagosomes; scale bar: 10 µm; magnified ROIs: 1 µm.
(**B**) 3D Radial intensity profiles of NLRP3 and LC3 signals in *Becn1*$^{+/-}$ microglia centerd on the maxima of NLRP3 clusters. Radial profiles show that both proteins colocalize, n = 3.
(**C**) Maximum projection of the ROIs used for the volume rendering shown in Fig 4B (wild type) and Fig EV5A (*Becn1*$^{+/-}$); scale bar: 1 µm.

Appendix Figure S2



Appendix Figure S2.

(**A**) LPS/ATP treated wild type microglia were stained for NLRP3 (green) and p62/SQSTM1 (red) and analysed by confocal microscopy. No colocalization of the two proteins became apparent; scale bar: 20 µm.

(**B**) LPS/ATP treated *Becn1*$^{+/-}$ microglia were stained for NLRP3 (green) and CALCOCO2 (red) and analysed by super resolution microscopy (SIM). NLRP3 aggregates of different sizes coclustering with CALCOCO2-positive signals are visible. 3D volume rendering of a NLRP3 aggregate from the magnified ROI showed close contact of NLRP3 with the autophagic receptor; scale bar: 10 µm; magnified ROI: 1 µm.

(**C**) 3D Radial intensity profiles of NLRP3 and CALCOCO2 signals derived from SIM images in *Becn1*$^{+/-}$ microglia, centerd on the maxima of NLRP3 clusters. The radial profiles confirm that both proteins colocalize, n = 2.

(**D**) Maximum projection of the ROIs used for the volume rendering shown in Fig 5B (wild type) and Fig EV5B (*Becn1*$^{+/-}$); scale bar: 1 µm.