Supplementary Figure 1 - Does the organization of the cortico-thalamic feedback pathway mirror that of the feed-forward geniculo-cortical projection?

The orientation and receptive field “on” and “off” zones of layer 4 simple cells link to the spatial alignment and properties of the LGN cells providing their input. “On” center LGN cells (red) provide excitatory input to the central “on” subregion (red) of the cortical simple cell, “off” center LGN cells (blue) provide excitatory input to the flanking “off” subregions (blue) of the cortical cell. Are the “on” and “off” zones of the feedback simple cells spatially aligned with the “on” and “off” center LGN cells they influence and is there any specificity in the pattern of influence linked to this?