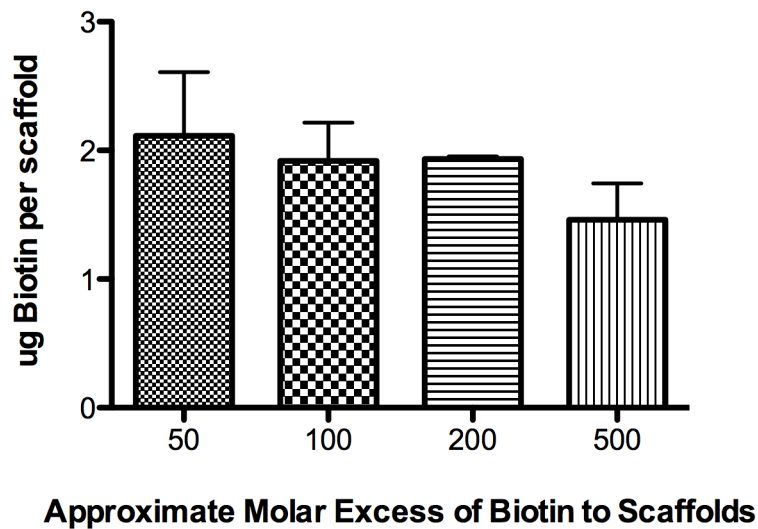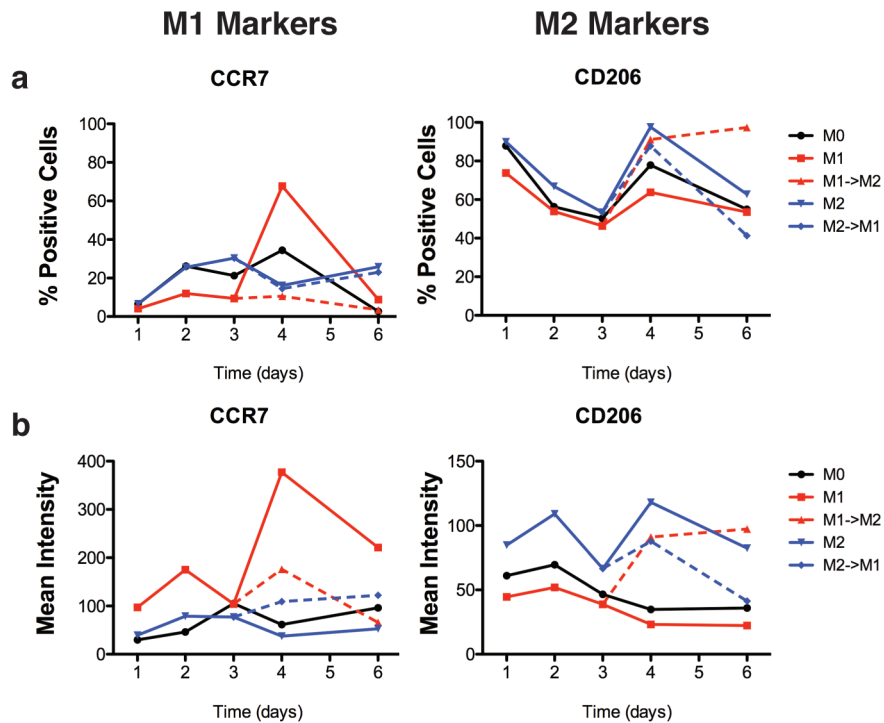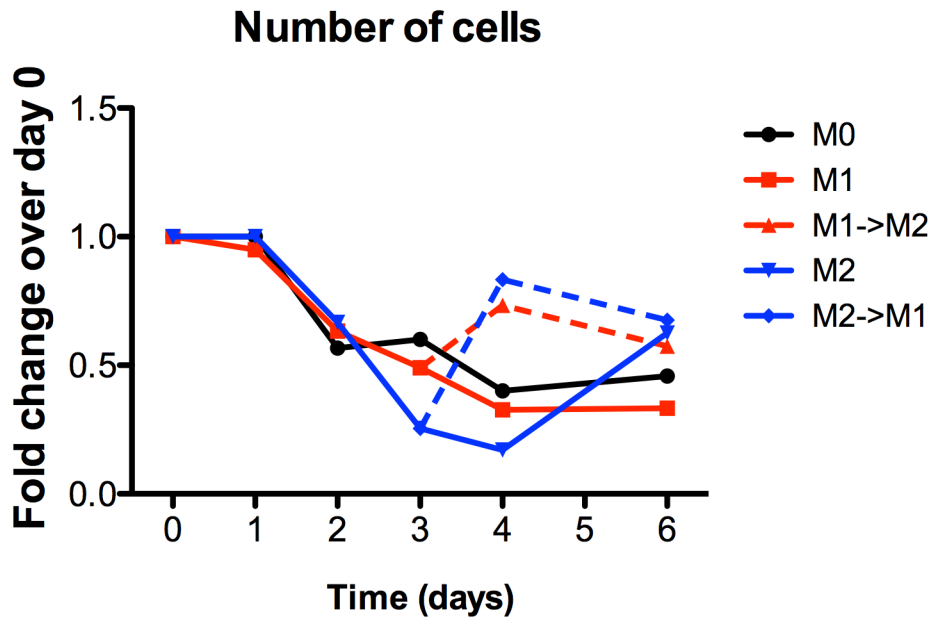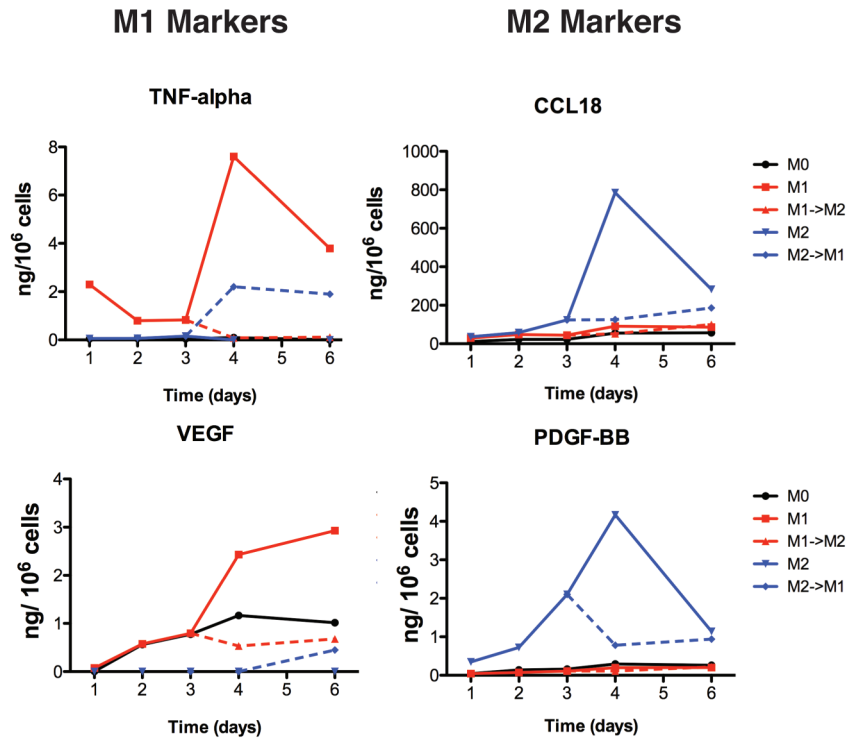**Supplemental data**

Figure S1: **Amount of biotin bound to each scaffold.** Data are shown as a function of the molar excess that was added, determined using the HABA/avidin binding assay.

Figure S2: **Quantitation of macrophage staining.** (a) Percentage of the population staining positively for CCR7 or CD206. (b) mean fluorescent intensity per cell of CCR7 and CD206, determined using flow cytometry.
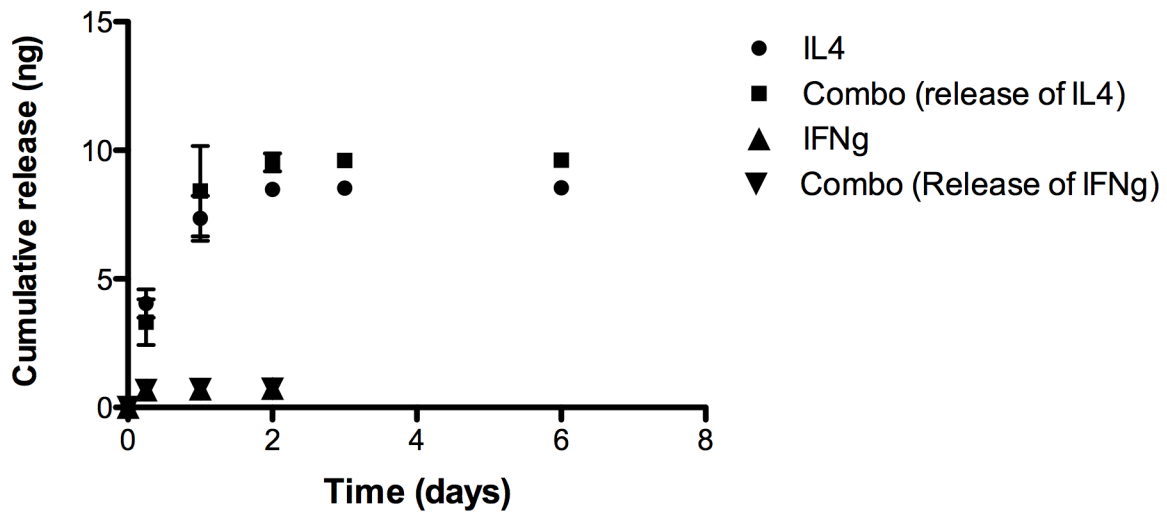
Number of cells

Figure S3: **Numbers of viable cells.** Data are shown as a function of time, and normalized to the starting numbers. Cells were counted using trypan blue exclusion.
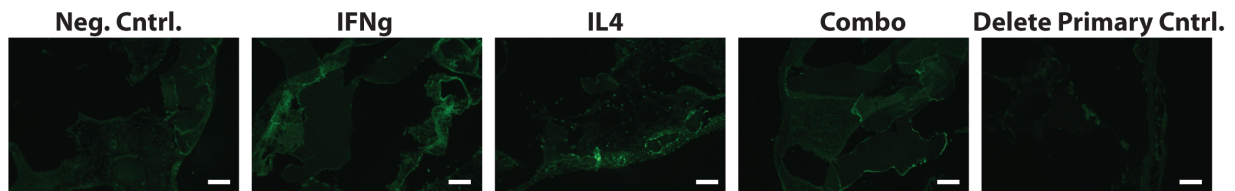
M1 Markers

TNF-alpha

VEGF

M2 Markers

CCL18

PDGF-BB

Figure S4: **Total proteins secreted into the media.** Data are normalized to the number of viable cells at each time point.

Cumulative Release of IL4 and IFN-gamma

Legend:
- ● IL4
- ■ Combo (release of IL4)
- ▲ IFNg
- ▼ Combo (Release of IFNg)

Figure S5: **Cumulative release of IFN-gamma and IL4.** Data are shown for IFNg, IL4, and Combo scaffolds. The release profiles of IFN-gamma or IL4 from the Combo scaffolds were not different from the control IFNg and IL4 scaffolds.

Neg. Cntrl. | IFNg | IL4 | Combo | Delete Primary Cntrl.

Figure S6: *In vivo* **studies.** Immunohistochemical staining for IL4 on scaffolds that were implanted subcutaneously in mice for 2 weeks.