

Supplementary Figure 1.

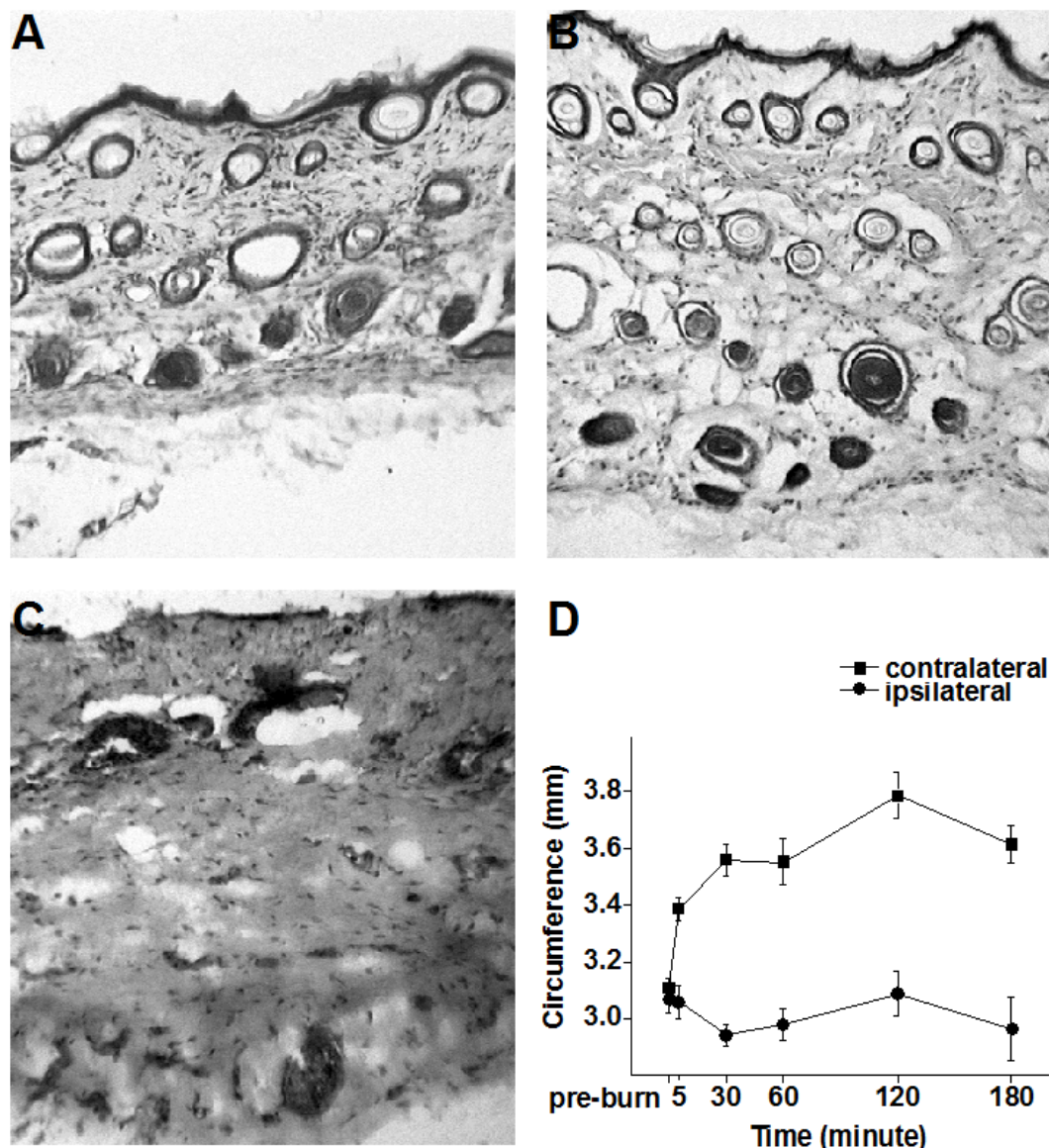


Figure S1. Our burn injury model is associated with the disruption of the skin structure and the development of oedema

(A) Microphotograph of a section cut from the dorsal aspect of a naive rat paw and stained with haematoxylin-eosin. The image shows the normal structure of the skin. (B) Microphotograph of a section cut from the dorsal aspect of a rat paw 5 minutes after the burn injury. The section was then stained with haematoxylin-eosin. Note that the skin became oedematous and nuclei appear shrunken at this time point. However the structure (epidermis, dermis, hair follicles, etc) is still recognisable (C) Microphotograph of a section cut from the dorsal aspect of a rat paw three hours after burn injury. The section was stained with haematoxylin-eosin. Note that the structure of the skin (both the epidermis and dermis) is destroyed; the basal layer of the epidermis is visible only in islands, blood vessels and hair follicles not recognisable, the entire tissue is filled with an eosinophilic material. Nuclei are pyknotic and karyorrhexis is evident. (D) The line chart shows the development of oedema following the burn injury.

Supplementary Figure 2

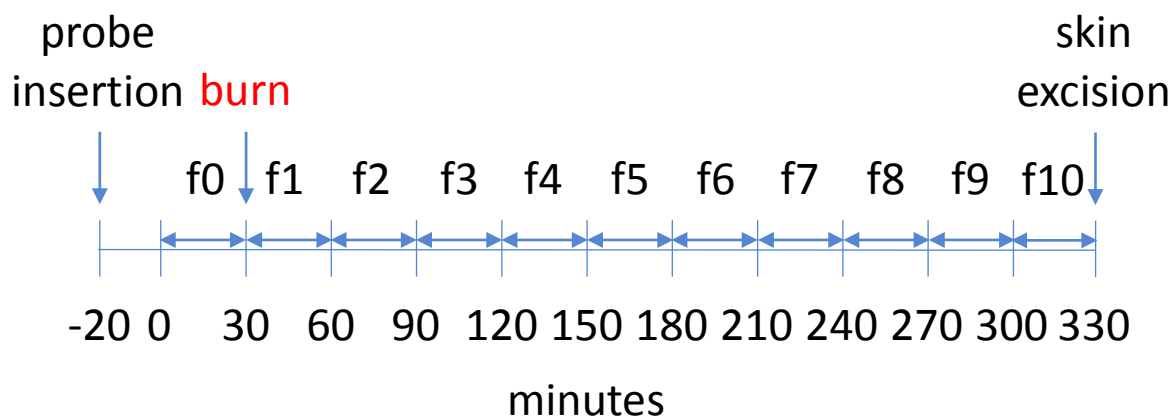


Figure S2. Time-course of the experiment

Sterile microdialysis probes were inserted into subcutaneous tissue of the dorsal aspects of the both hind paws 20 minutes before starting perfusion at 0 minutes. The first microdialysate fractions (f0) were collected between 0 and 30 minutes from both sides. At 30 minutes timepoint, burn injury was induced by immersing one of the paws into 60°C water for 2 minutes. After the injury, microdialysate fractions 1-10 (f1-10) were collected at 30 minutes interval again from both sides. Three hours after the injury the microdialysis was stopped and the skin was excised from both paws.

Table S1. Differentially expressed genes in the skin three hours following burn injury.

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Table S2. GO terms involving or indirectly related to cytokine function in gene sequencing comparison of burn and control tissue.

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