Up-regulation of pro-angiogenic pathways and induction of neovascularization by an acute retinal light damage

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SUPPLEMENTARY FIGURES

Supplementary Figure S1

Supplementary Figure S1: Original whole western blot shown. For the final figure, photoshop was used to flip the western blot horizontally and crop the horizontal line of VEGFA/Tubulin bands indicated by the arrows. They were then placed in the Figure 2A.

Supplementary Figure S2:

Supplementary Figure S2: Original whole western blot shown. For the final figure, photoshop was used to flip the western blot horizontally and crop the horizontal line of VEGFR2/Tubulin bands indicated by the arrows. They were then placed in the Figure 3A.

Supplementary Figure S3:

Supplementary Figure S3 A: Original whole western blot shown. For the final figure, photoshop was used to flip the western blot horizontally and crop the horizontal line of bFGF/Tubulin bands indicated by the arrows. They were then placed in the Figure 4A.

Supplementary Figure S3 B: Original whole western blot shown. For the final figure, photoshop was used to flip the western blot horizontally and crop the horizontal line of FGFR1/Tubulin bands indicated by the arrows. They were then placed in the Figure 4A.
Supplementary Figure S4: Left: representative confocal image of anti-vWF immunostaining (red) 7 days after light damage, acquired with both 594 and 488 excitation wavelengths to discriminate vessels (red arrow) from autofluorescent debris (white arrow). Right: Negative control without primary antibody.

Supplementary Figure S5: microglia surrounding the retinal vessels. Representative image of a whole mount retina from LD+7rec group stained with Isolectin B4 (IB4) (green). The white arrow indicates activated microglia binding IB4.

Supplementary Table S1: Summary of the antibodies used in this paper

| Antibody | Species | Company, Catalog#          | Use   |
|----------|---------|----------------------------|-------|
| VEGFA    | mouse   | Santa Cruz, sc-7269        | IF, WB|
| VEGFR2   | mouse   | Invitrogen, AHR5102        | IF, WB|
| bFGF     | mouse   | Millipore, 2718303         | IF    |
| bFGF     | mouse   | Merck, 05-117              | WB    |
| FGFR1    | rabbit  | OriGene TA324059           | IF, WB|
| IBA-1    | rabbit  | Wako Pure Chemical industries, 019-19741 | IF |
| Tubulin  | mouse   | Thermo scientific, 62204   | WB    |
| vWF      | rabbit  | Chemicon, AB7356           | IF    |