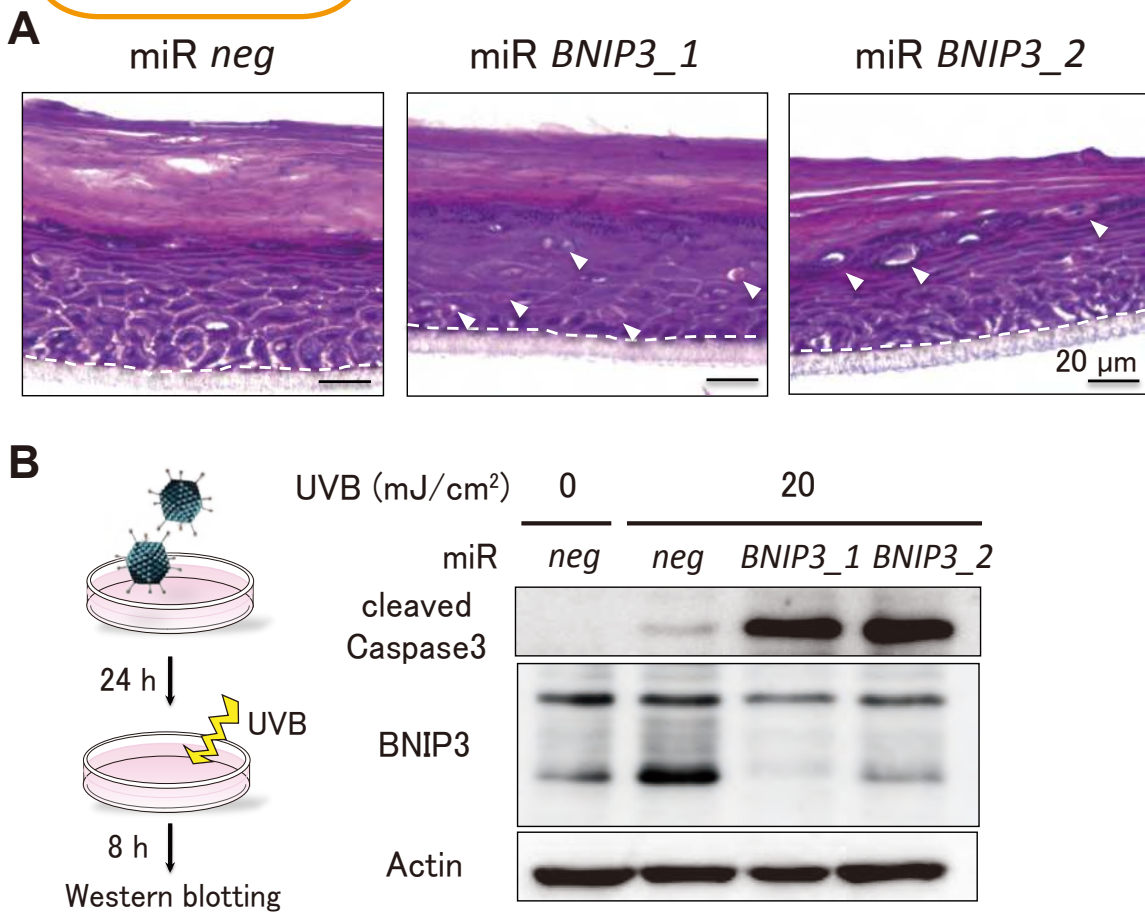


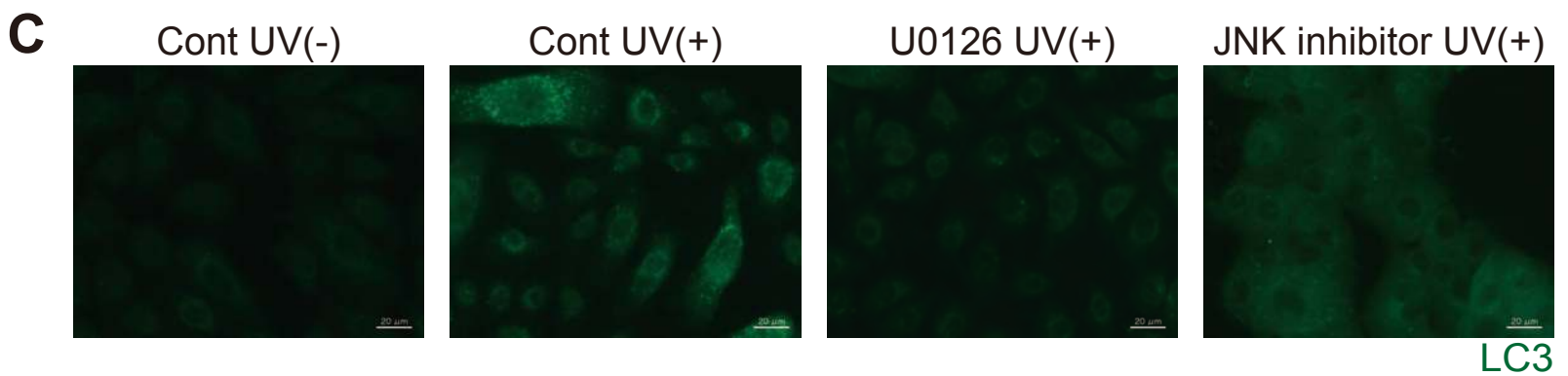
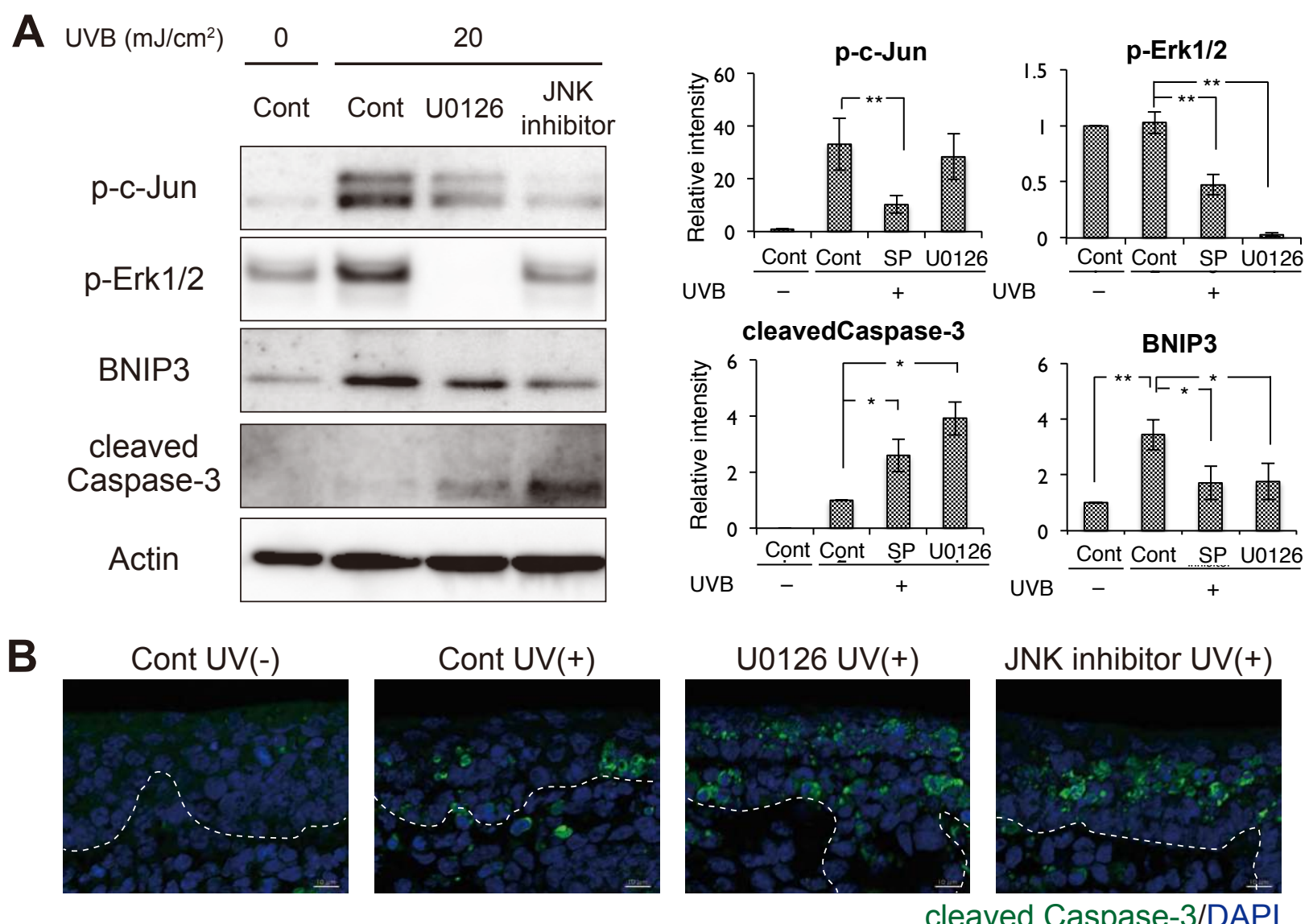
# BNIP3-induced Autophagy is Required for Maintenance of Epidermal Homeostasis

○Mariko Moriyama, Hirokazu Kubo, Takashi Morita, Takao Hayakawa, Hiroyuki Moriyama  
Pharmaceutical Research and Technology Institute, Kindai University JAPAN

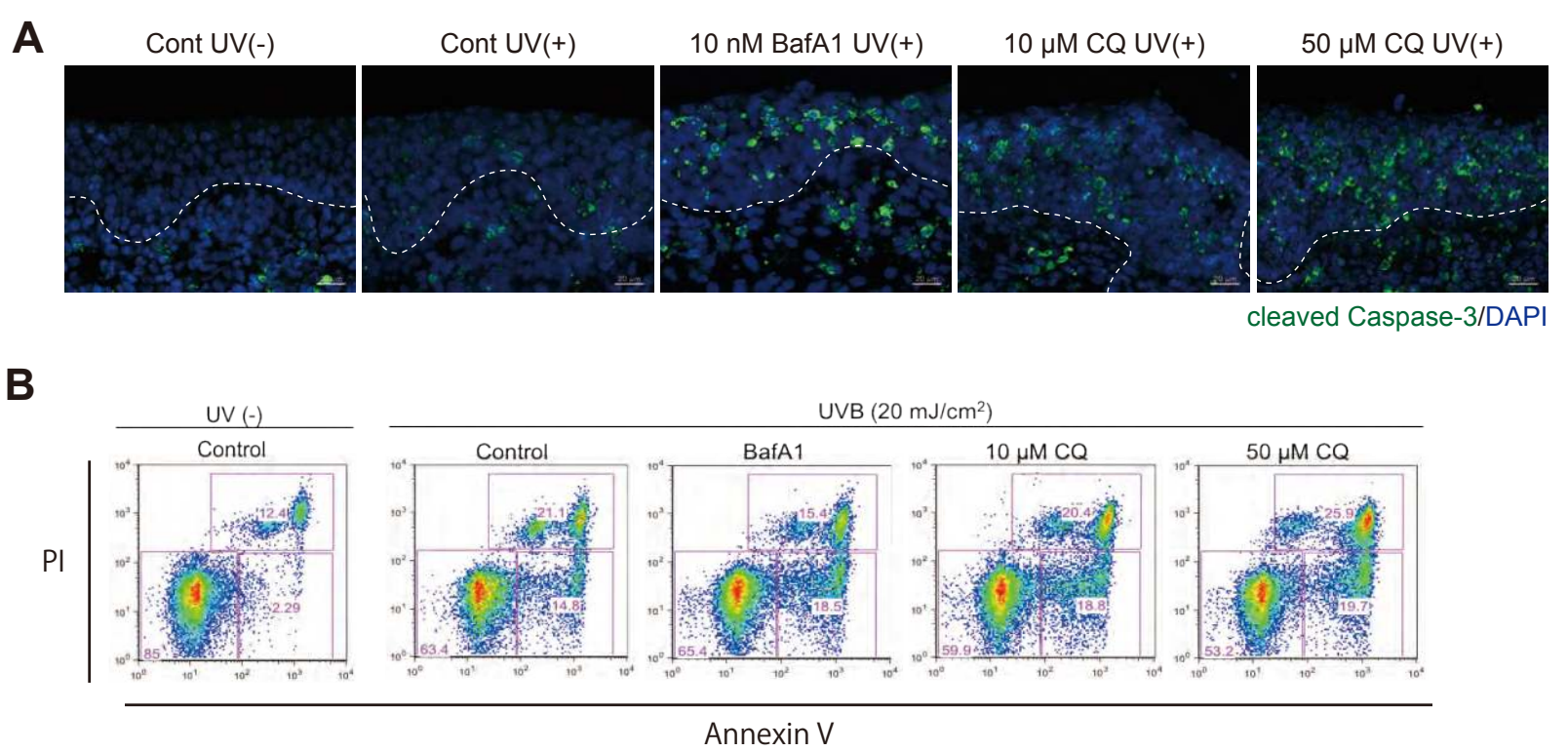
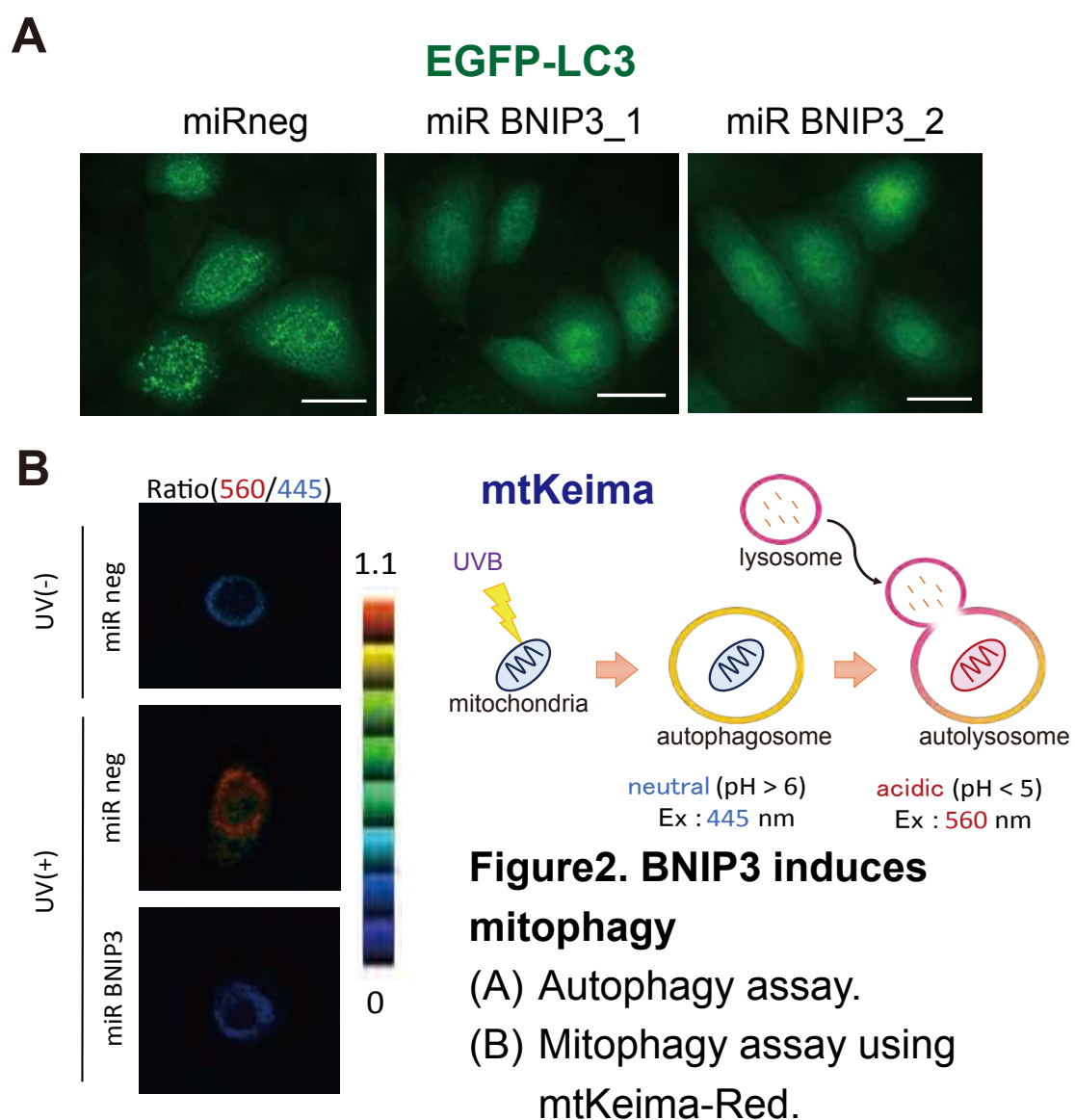
## Results



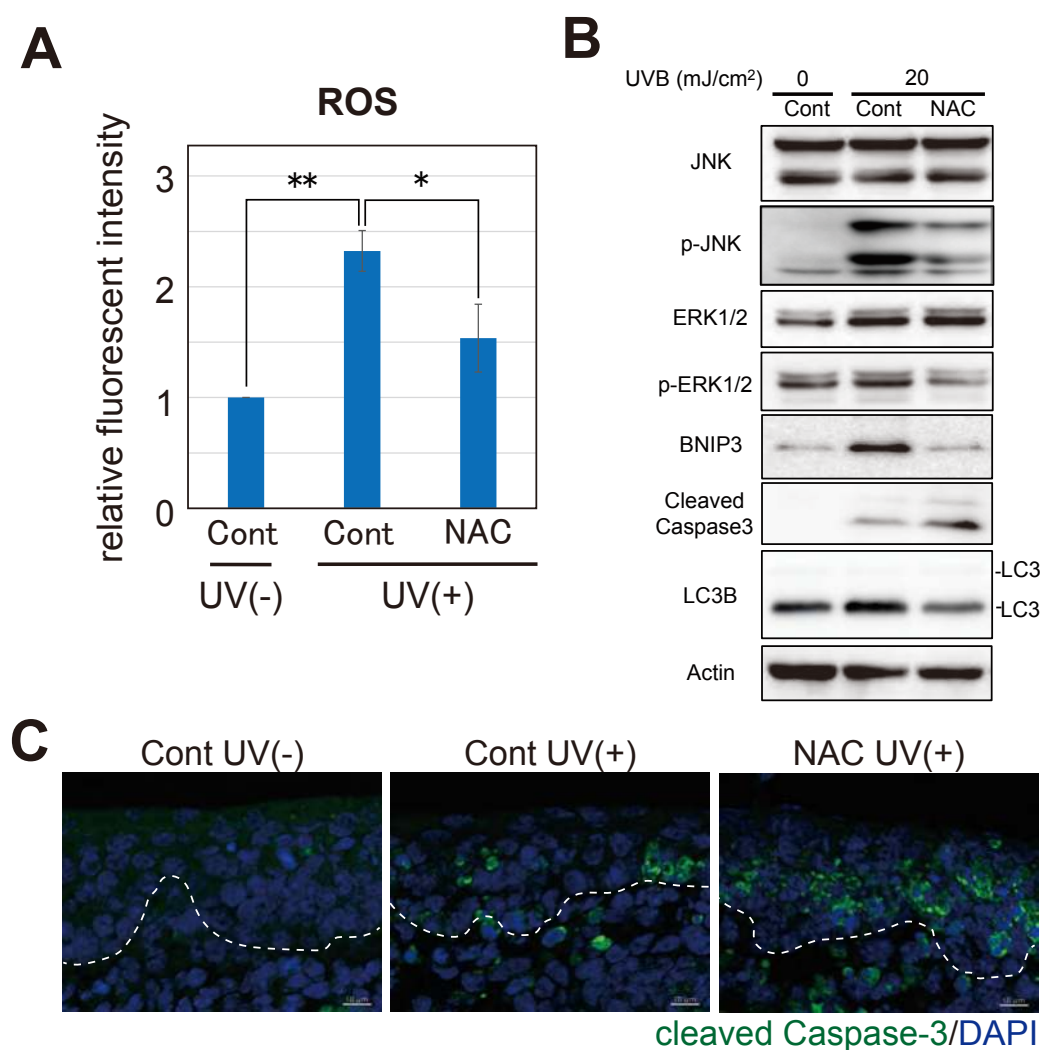
**Figure1. BNIP3 promotes cell survival in keratinocytes**  
(A) Epidermal equivalent models.  
(B) Western blot analysis of epidermal keratinocytes.



**Figure4. BNIP3 is induced by ROS-activated MAP kinases.**  
(A) Western blot analysis of keratinocytes. (B) Immunostaining of mouse organ cultured skin. (C) Autophagy assay in keratinocytes.



**Figure4. Autophagy suppresses UVB-induced apoptosis.**  
(A) Immunostaining of mouse organ cultured skin. (B) Annexin V-PI staining.



**Figure3. BNIP3 is induced by ROS.**

## Conclusion

