

Figure S1 These were the results immunohistochemistry of beclin-1 in all groups. The positive cells showed brown. The beclin-1 increased gradually on days 0, 7 and 14 in all groups. Beclin-1 expression in the N + uninfected group was significantly higher than uninfected diabetic group on days 7 and 14. Among the diabetic infected rats, the expression of beclin-1 was higher in the *P. aeruginosa*  $\Delta$ pcrV group than the *P. aeruginosa* group on day 14 (400 $\times$ ).

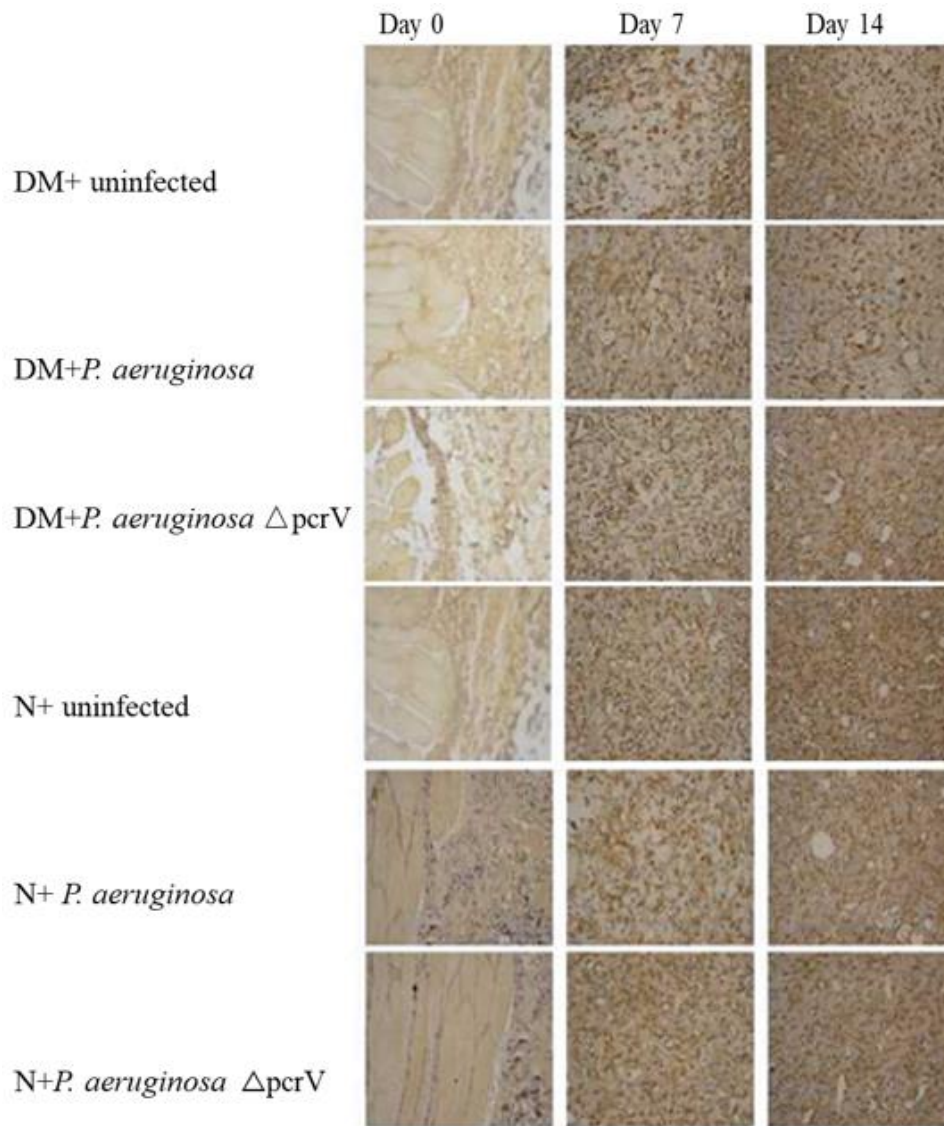


Figure S2 These were the results immunohistochemistry of LC3 in all groups. The positive cells showed brown. The LC3 increased gradually on days 0, 7 and 14 in all groups. Among the diabetic infected rats, the expression of LC3 was higher in the *P. aeruginosa*  $\Delta$  pcrV group than the *P. aeruginosa* group on day 14 (400 $\times$ ).

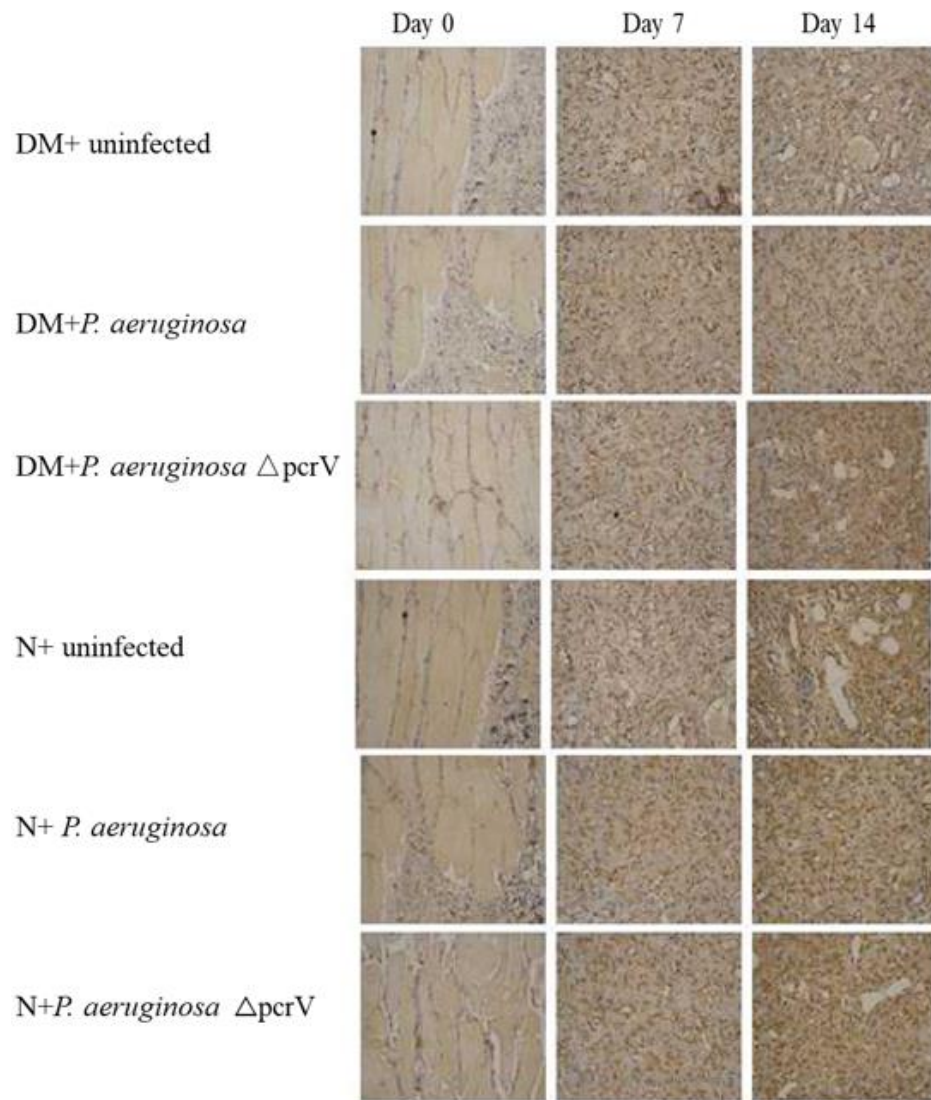


Figure S3 These were the results immunohistochemistry of p62 in all groups. The positive cells showed brown. The expression of p62 decreased gradually on days 7 and 14. Compared with the N + *P. aeruginosa* group, the expression of p62 expression was higher on day 14 (400 $\times$ ).

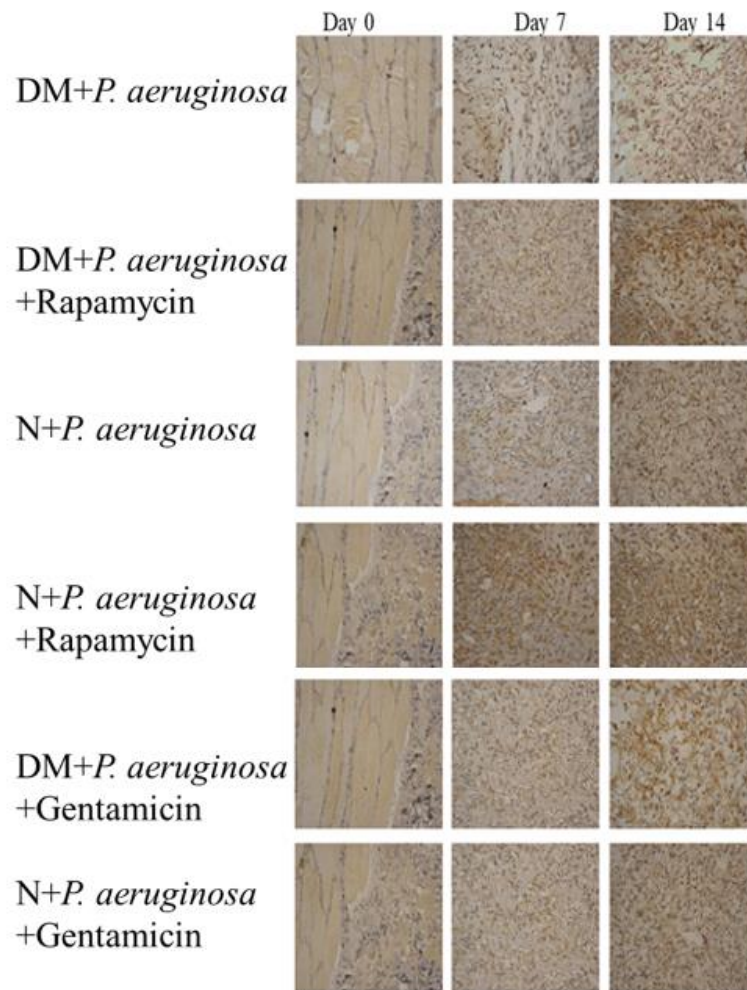


Figure S4 These were the results immunohistochemistry of beclin-1 in all groups. The positive cells showed brown. Among the diabetic groups, in the DM + *P. aeruginosa* + Rapamycin group the expression of beclin-1 was higher on day 14 than others. There was no significant difference in the expression of beclin-1, between the DM + *P. aeruginosa* + Gentamicin and DM + *P. aeruginosa* groups at any time point. Among the normal groups, in the normal + *P. aeruginosa* + Rapamycin group, the expression of beclin-1 was higher on day 7, compared with the N + *P. aeruginosa* group. The expression of beclin-1 was higher in the N + *P. aeruginosa* + Rapamycin group compared with the DM + *P. aeruginosa* + Rapamycin group (400x).

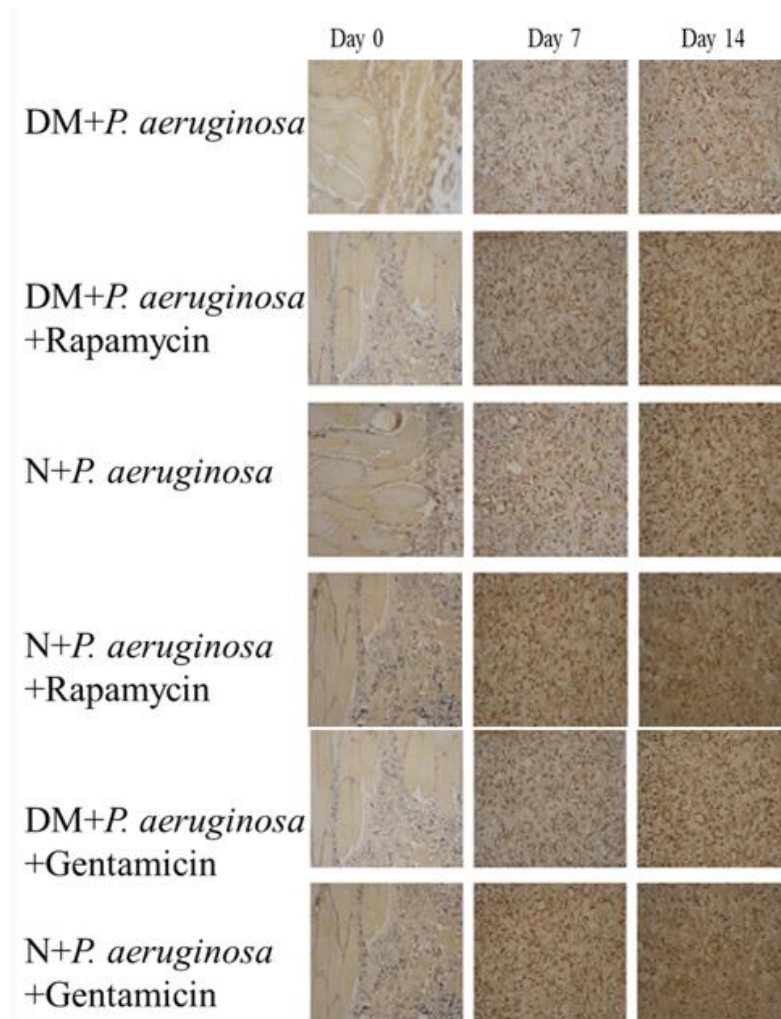


Figure S5 These were the results of immunohistochemistry for LC3 in all groups. Positive cells are shown in brown. In the diabetic groups, the DM + *P. aeruginosa* + Rapamycin group showed higher expression of beclin-1 on day 14 compared to the DM + *P. aeruginosa* group. There was no significant difference in LC3 expression between the DM + *P. aeruginosa* + Gentamicin and DM + *P. aeruginosa* groups at any time point. LC3 expression was higher on days 7 and 14 in the N + *P. aeruginosa* + Rapamycin group compared to the DM + *P. aeruginosa* + Rapamycin group (400 $\times$ ).

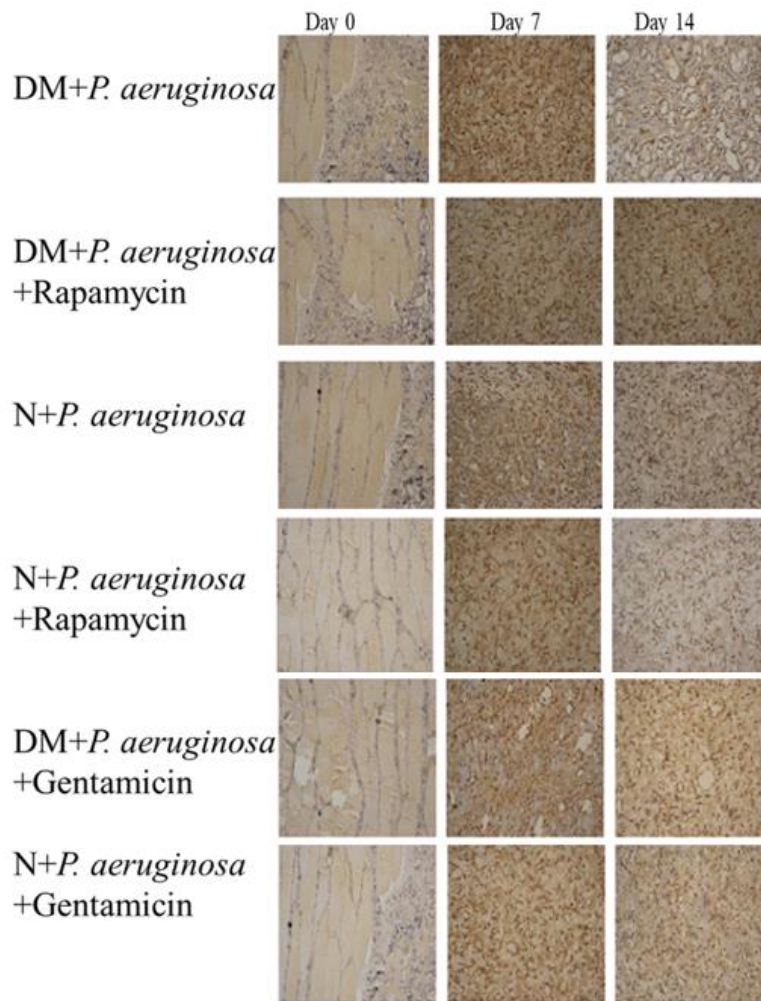


Figure S6 These were the results of immunohistochemistry for p62 in all groups. Positive cells are shown in brown. In the DM + *P. aeruginosa* + Rapamycin group, p62 expression was lower on days 7 and 14 compared to the DM + *P. aeruginosa* group. There was no significant difference in p62 expression between the DM + *P. aeruginosa* + Gentamicin and DM + *P. aeruginosa* groups at any time point. p62 expression was lower on days 7 and 14 in the N + *P. aeruginosa* + Rapamycin group compared to the DM + *P. aeruginosa* + Rapamycin group (400 $\times$ ).