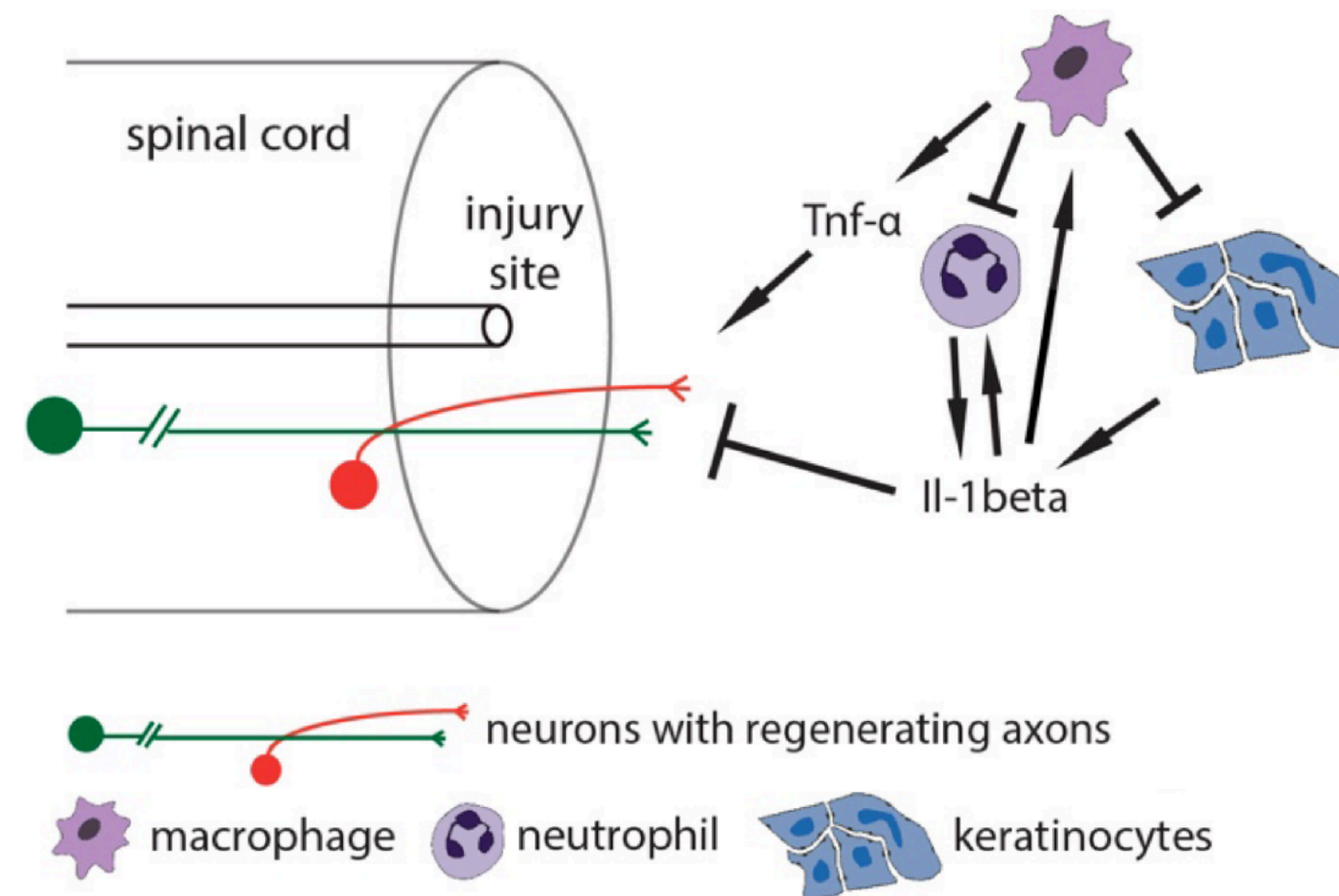
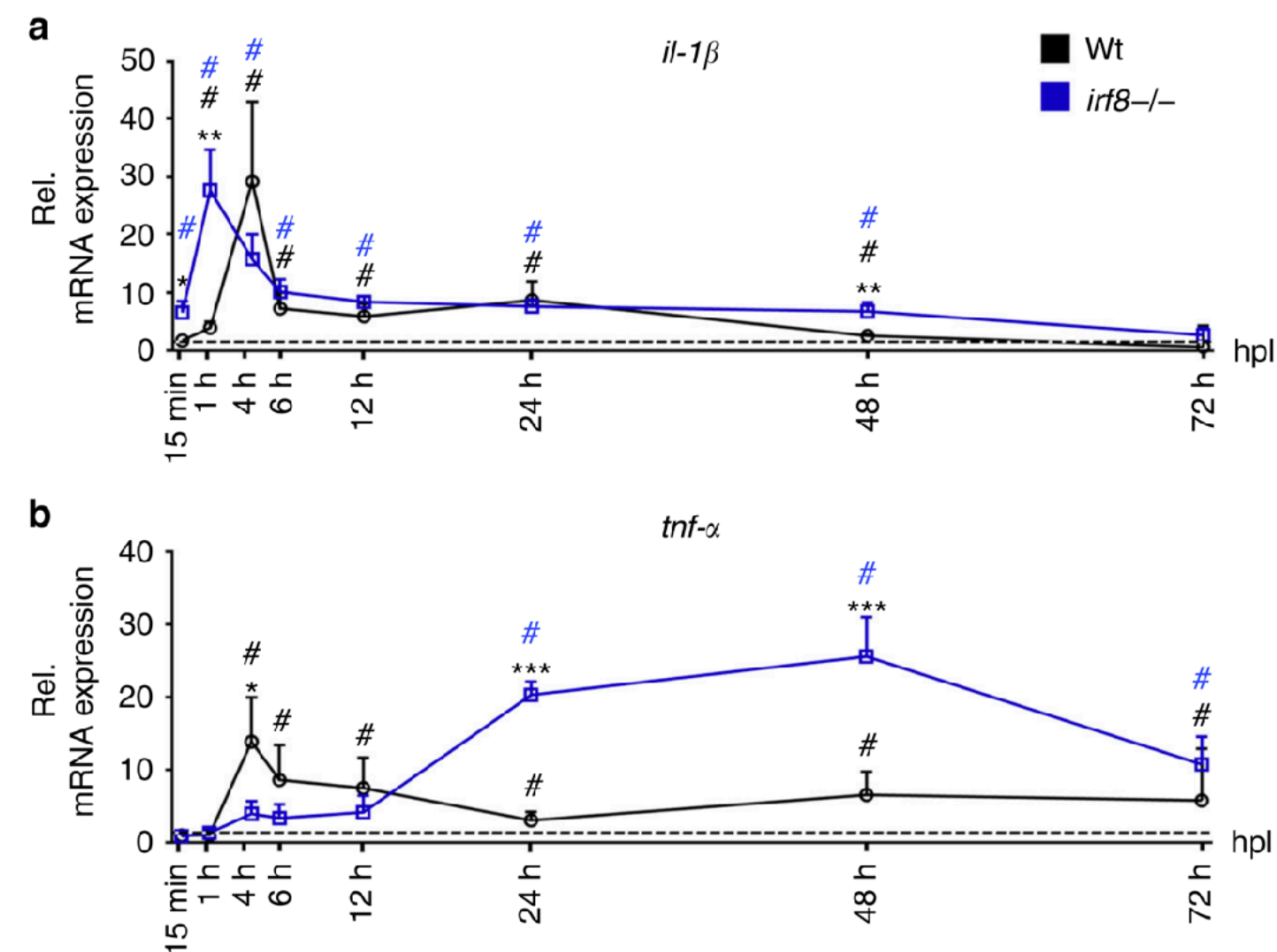
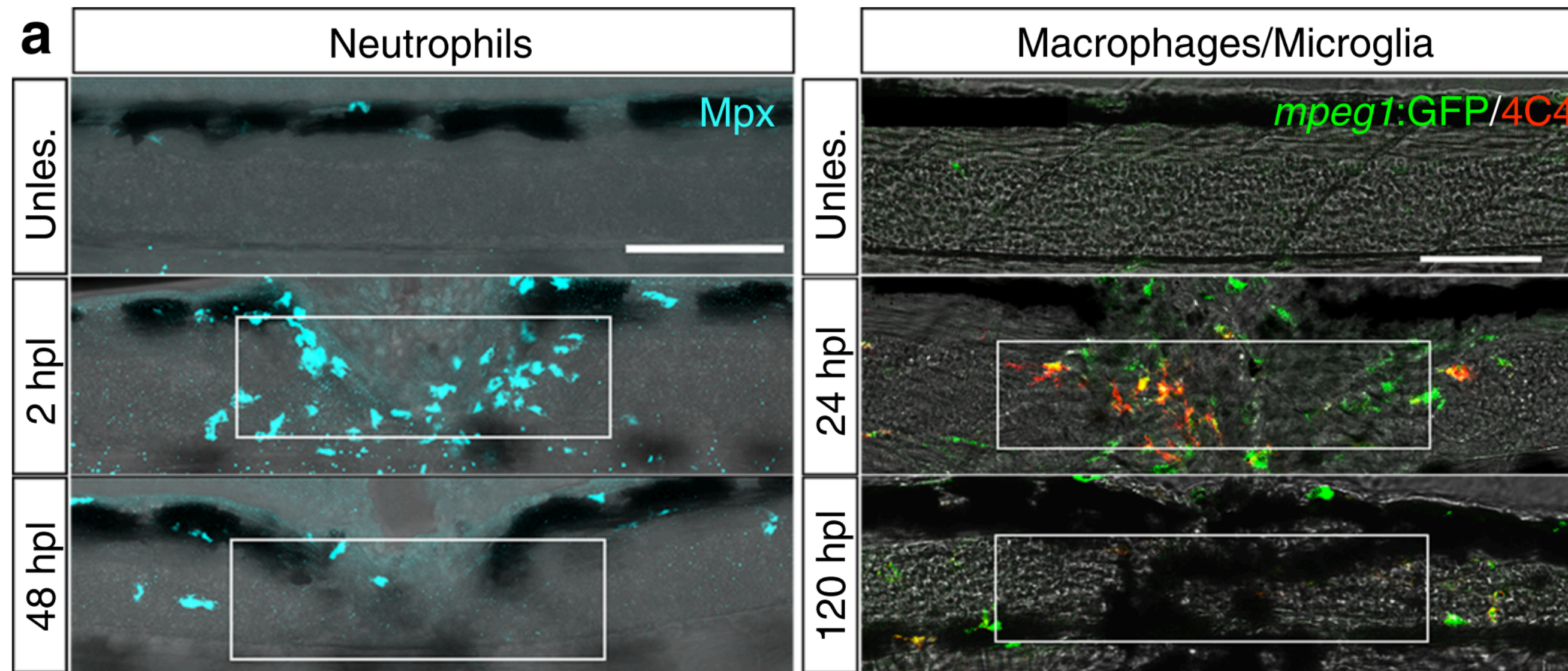


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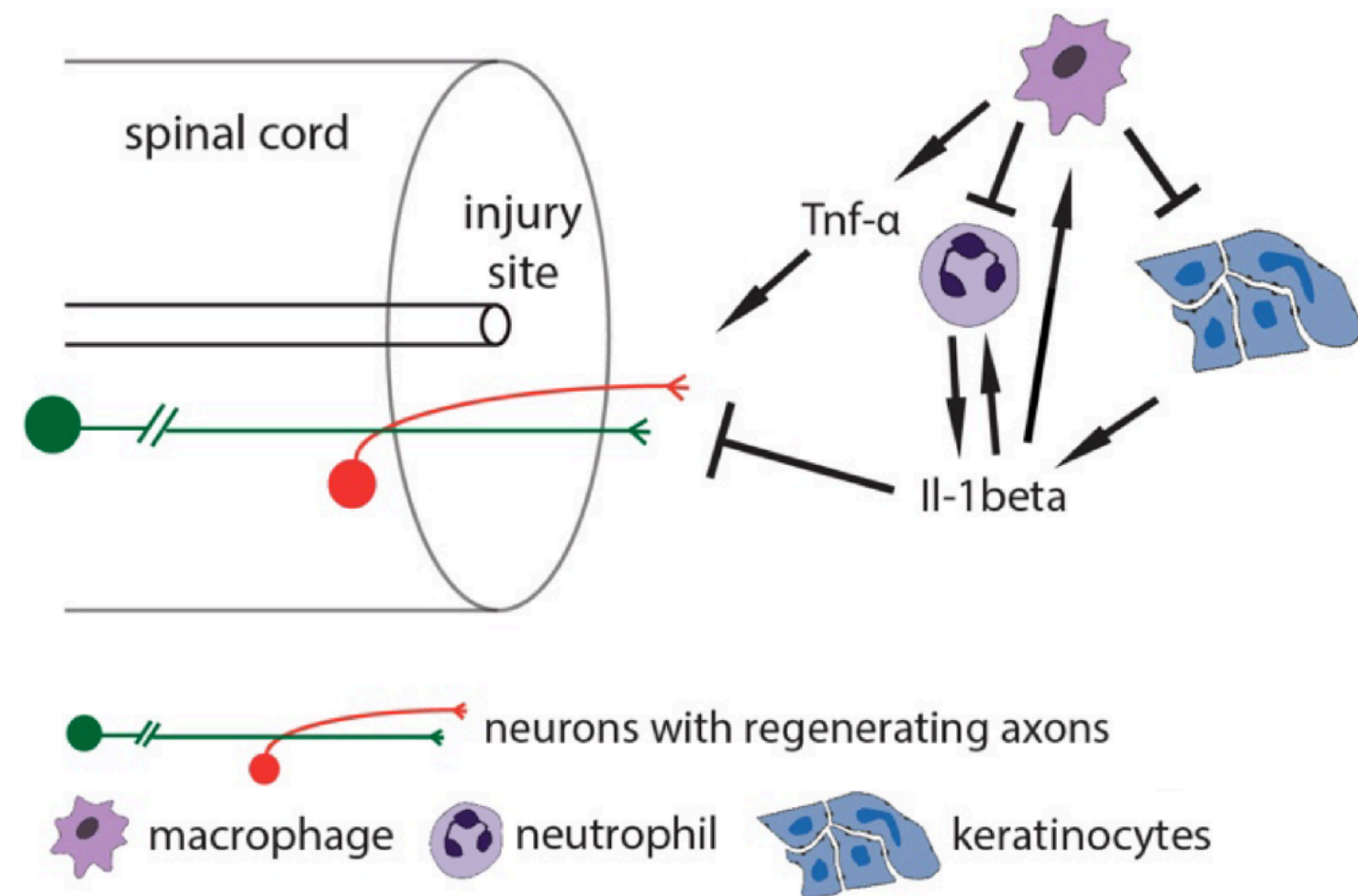


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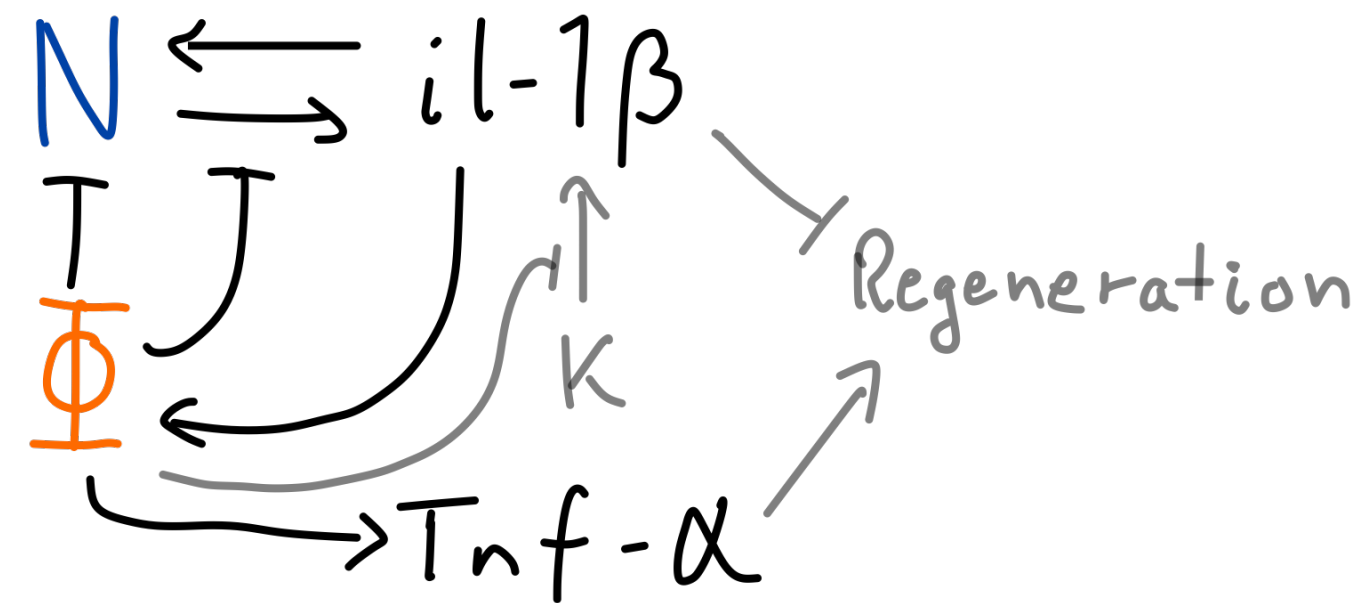
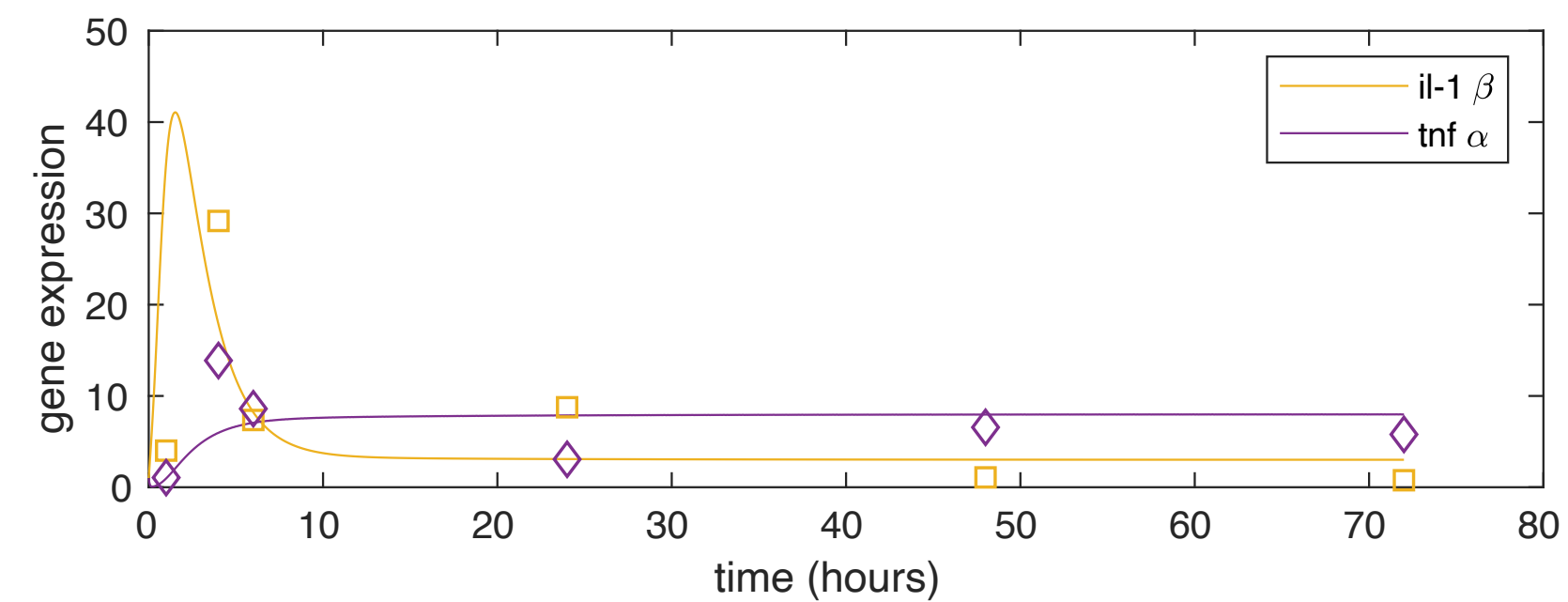
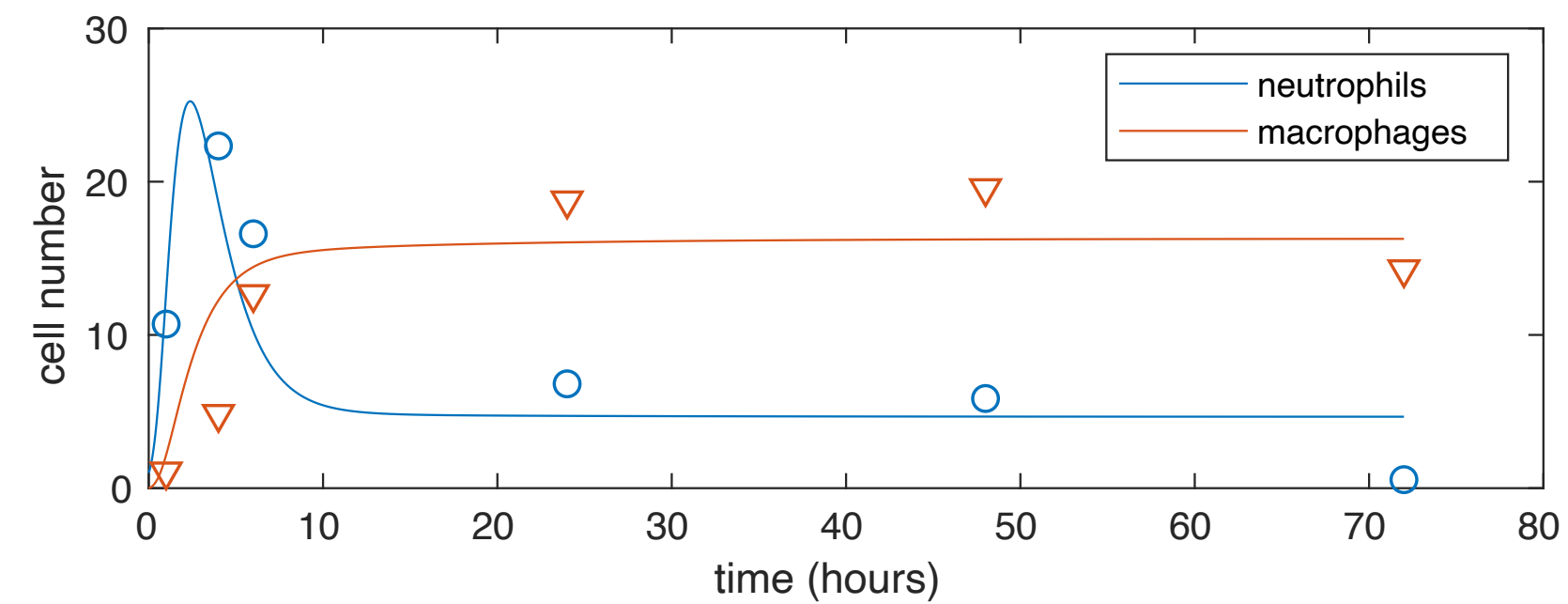


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$$\frac{dN}{dt} = \lambda_N + \kappa_{N\beta}\beta - \mu_N N - \nu_{N\Phi} N \Phi$$

$$\frac{d\Phi}{dt} = \lambda_{\Phi} + \kappa_{\Phi\beta}\beta - \mu_{\Phi}\Phi$$

$$\frac{d\beta}{dt} = \frac{s_{\beta N} N}{1 + i_{\beta \Phi}} - \mu_{\beta} \beta$$

$$\frac{d\alpha}{dt} = s_{\alpha\Phi}\Phi - \mu_{\alpha}\alpha$$