
Article:
Gibson, J.F., Prajsnar, T.K., Hill, C.J. et al. (2021) Neutrophils use selective autophagy receptor Sqstm1/p62 to target Staphylococcus aureus for degradation in vivo in zebrafish. Autophagy, 17 (6). pp. 1448-1457. ISSN: 1554-8627

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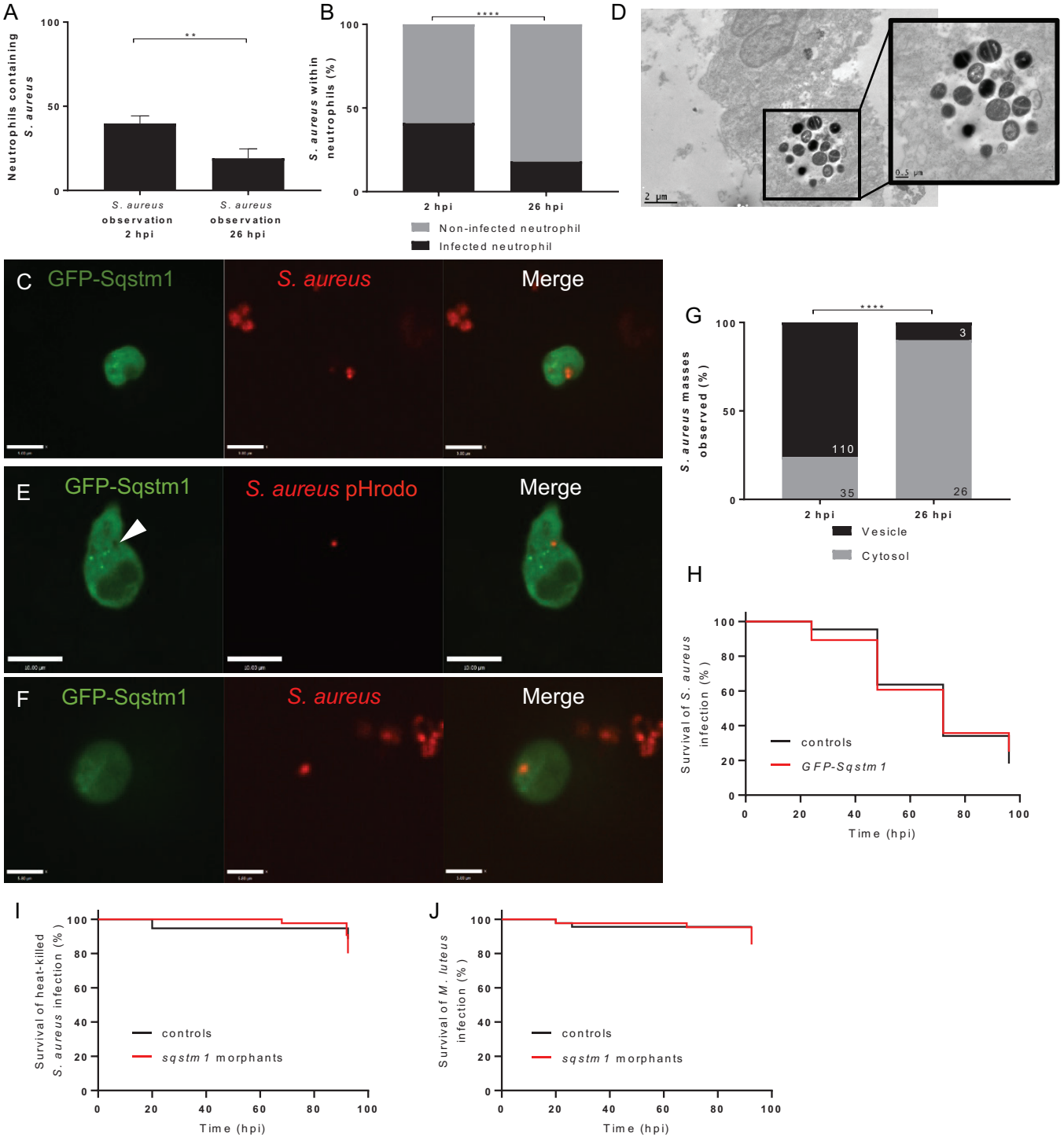
A
Neutrophils containing S. aureus
100
50
0
**
S. aureus observation 2 hpi
S. aureus observation 26 hpi
B
S. aureus within neutrophils (%)
100
50
0
****
2 hpi
26 hpi
Non-infected neutrophil
Infected neutrophil
D
2 µm
0.5 µm
C
GFP-Sqstm1
S. aureus
Merge
E
GFP-Sqstm1
S. aureus pHrodo
Merge
F
GFP-Sqstm1
S. aureus
Merge
G
S. aureus masses observed (%)
100
50
0
****
110
35
3
26
2 hpi
26 hpi
Vesicle
Cytosol
H
Survival of S. aureus infection (%)
100
80
60
40
20
0
controls
GFP-Sqstm1
0
20
40
60
80
100
Time (hpi)
I
Survival of heat-killed S. aureus infection (%)
100
80
60
40
20
0
controls
sqstm1 morphants
0
20
40
60
80
100
Time (hpi)
J
Survival of M. luteus infection (%)
100
80
60
40
20
0
controls
sqstm1 morphants
0
20
40
60
80
100
Time (hpi)