

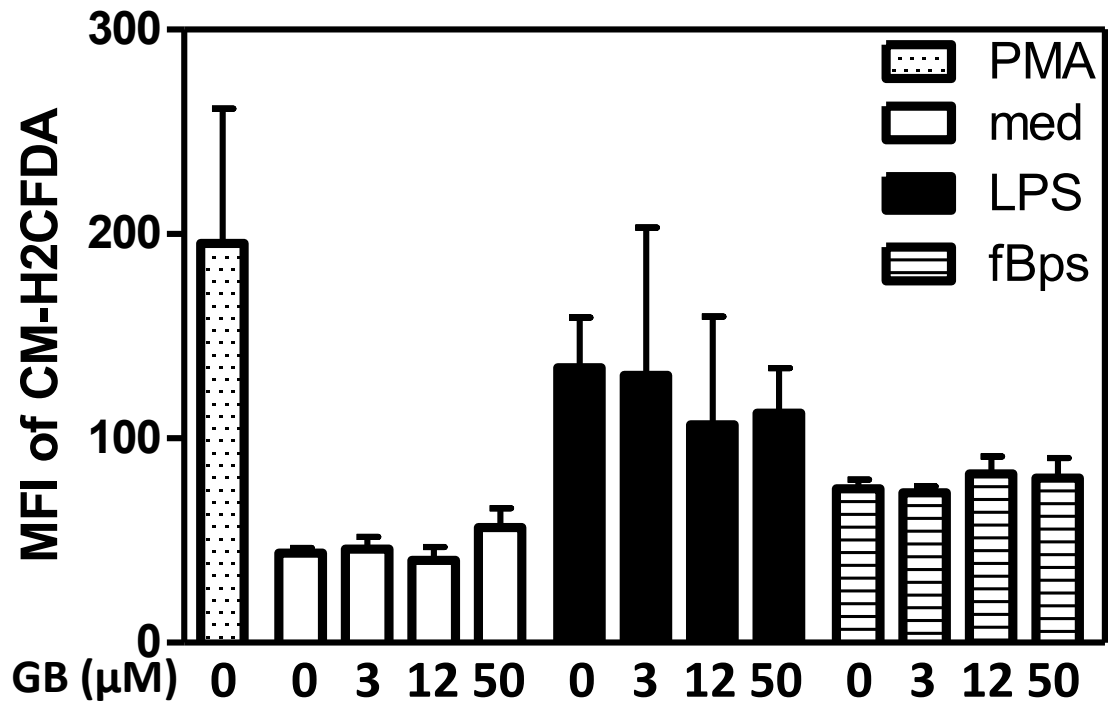
Supplementary information

Glibenclamide impairs responses of neutrophils against *Burkholderia pseudomallei* by reduction of intracellular glutathione

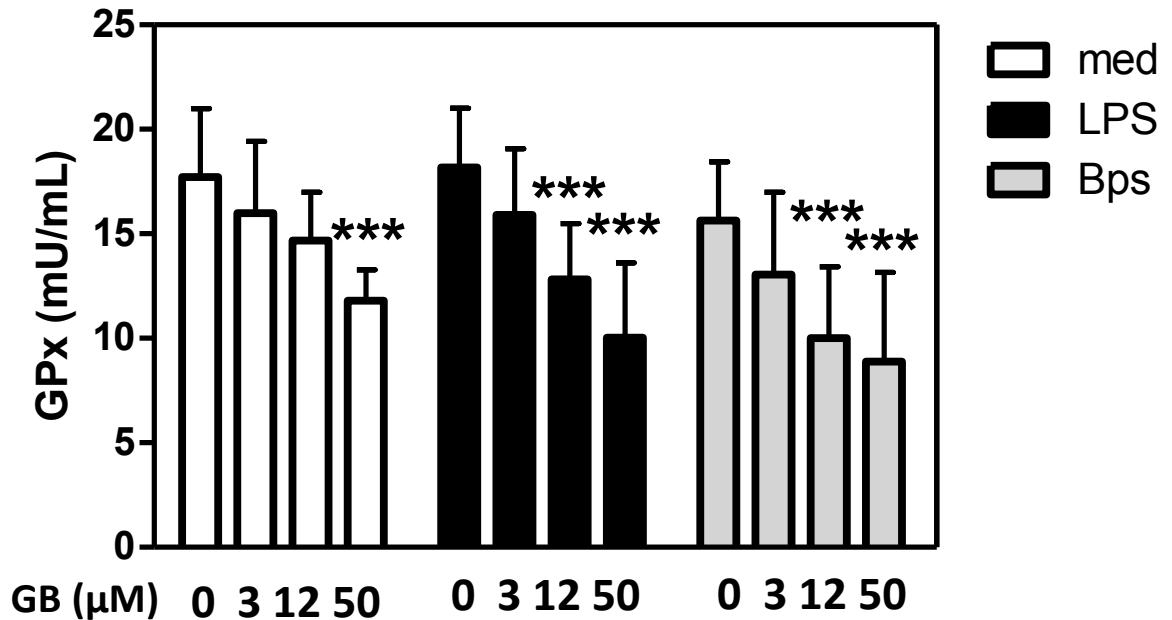
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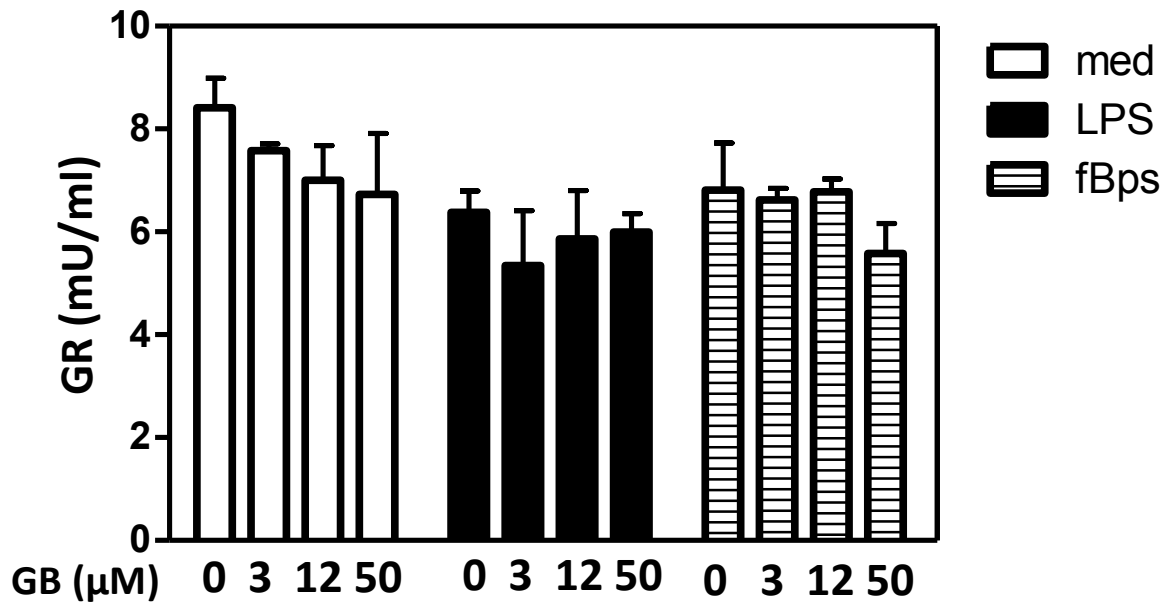
Supplementary Figures S1-S3



Supplementary Figure S1: Glibenclamide does not affect reactive oxygen species (ROS) production by PMNs. Purified PMNs from healthy individuals were treated with glibenclamide (GB, 3, 12 and 50 μ M) for 1 h. After treatment PMNs were incubated with 1 μ g/ml LPS or fixed *B. pseudomallei* killed by 1% paraformaldehyde (ratio 1:10) for 1 h and then the PMNs were collected for detection of CM-H2CFDA (General oxidative stress indicator) by flow cytometry. Statistical analysis was performed using Two Way ANOVA comparing each bar of GSH treatment group with no GB of each GB treatment group. The results are expressed as mean \pm s.d. from 1 of 2 independent experiments. No asterisk, non significant.



Supplementary Figure S2: Glibenclamide inhibits glutathione peroxidase (GPx) activity of PMNs. Purified PMNs from healthy individuals were treated with glibenclamide (GB, 3, 12 and 50 μM) for 1 h. After treatment PMNs were incubated with 1 μg/ml LPS or live *B. pseudomallei* (MOI 1:1) for 1 h and then the PMNs were collected for detection of glutathione peroxidase (GPx) activity. Statistical analysis was performed using Two Way ANOVA comparing each bar of GSH treatment group with no GB of each GB treatment group. The results are expressed by mean ± s.d. from 3 independent experiments, and samples were assayed in duplicated. *** $P < 0.001$. No asterisk, non significant.



Supplementary Figure S3: Glibenclamide does not affect glutathione reductase (GR) activity of PMNs. Purified PMNs from healthy individuals were treated with glibenclamide (GB, 3, 12 and 50 μM) for 1 h. After treatment PMNs were incubated with 1 μg/ml LPS or fixed *B. pseudomallei* (MOI 10) for 1 h and then the PMNs were collected for detection of glutathione reductase (GR) activity. Statistical analysis was performed using Two Way ANOVA comparing each bar of GSH treatment group with no GB of each GB treatment group. The results are expressed as mean ± s.d. from 2 independent experiments. No asterisk, non significant.