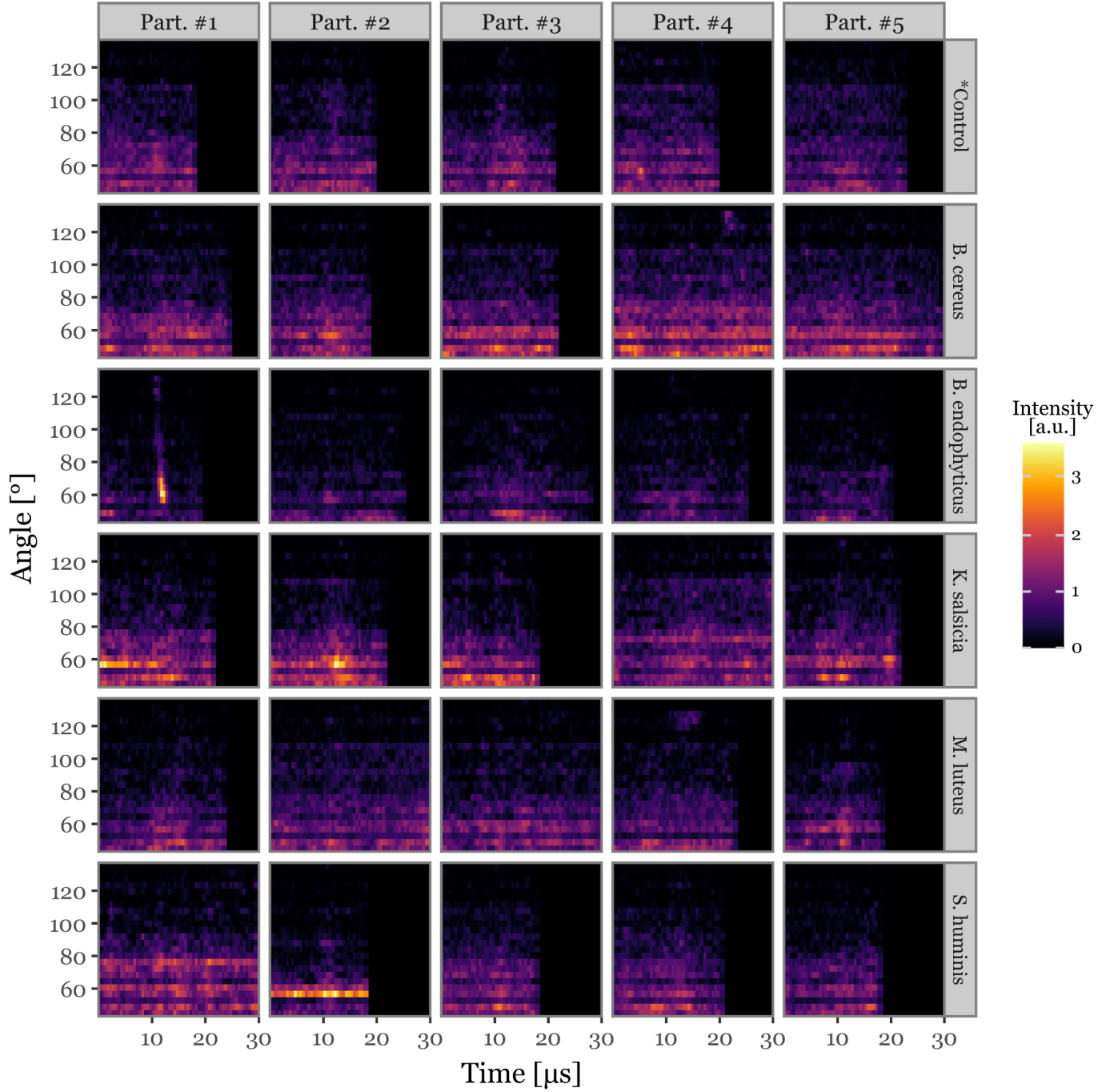
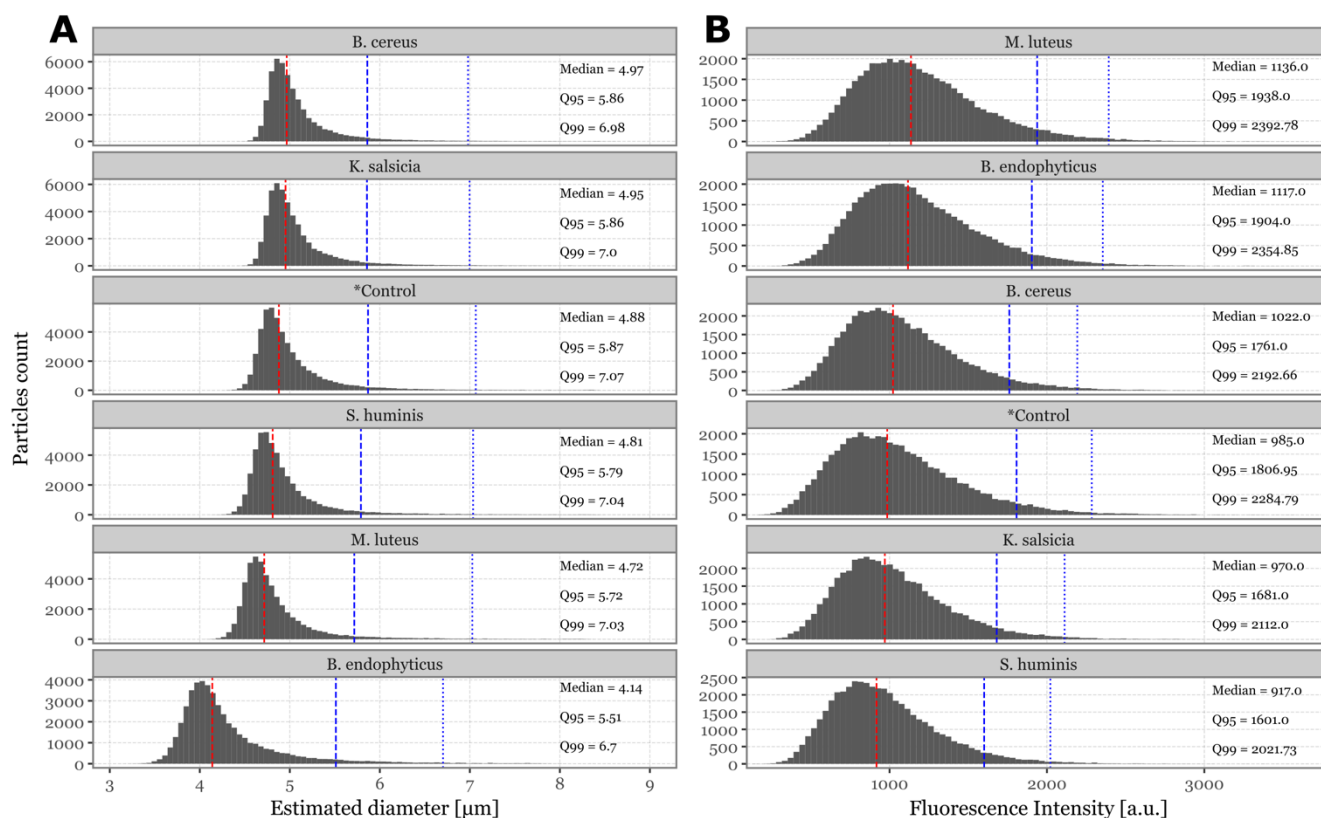


Supplementary Figures

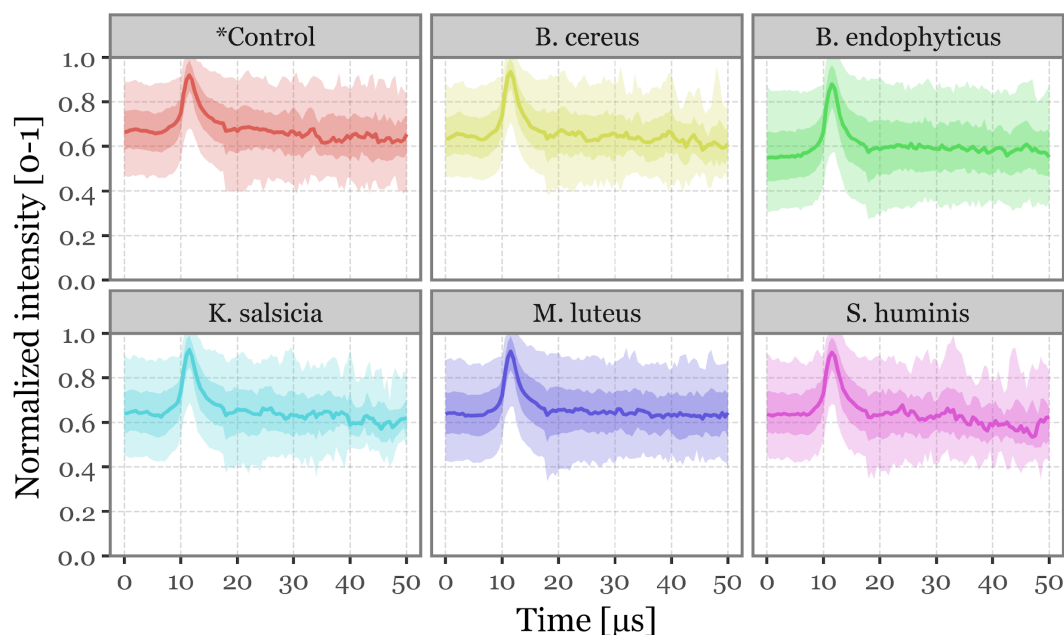
Benchmarking Laser-Induced Fluorescence and Machine Learning for real-time identification of bacteria in bioaerosols



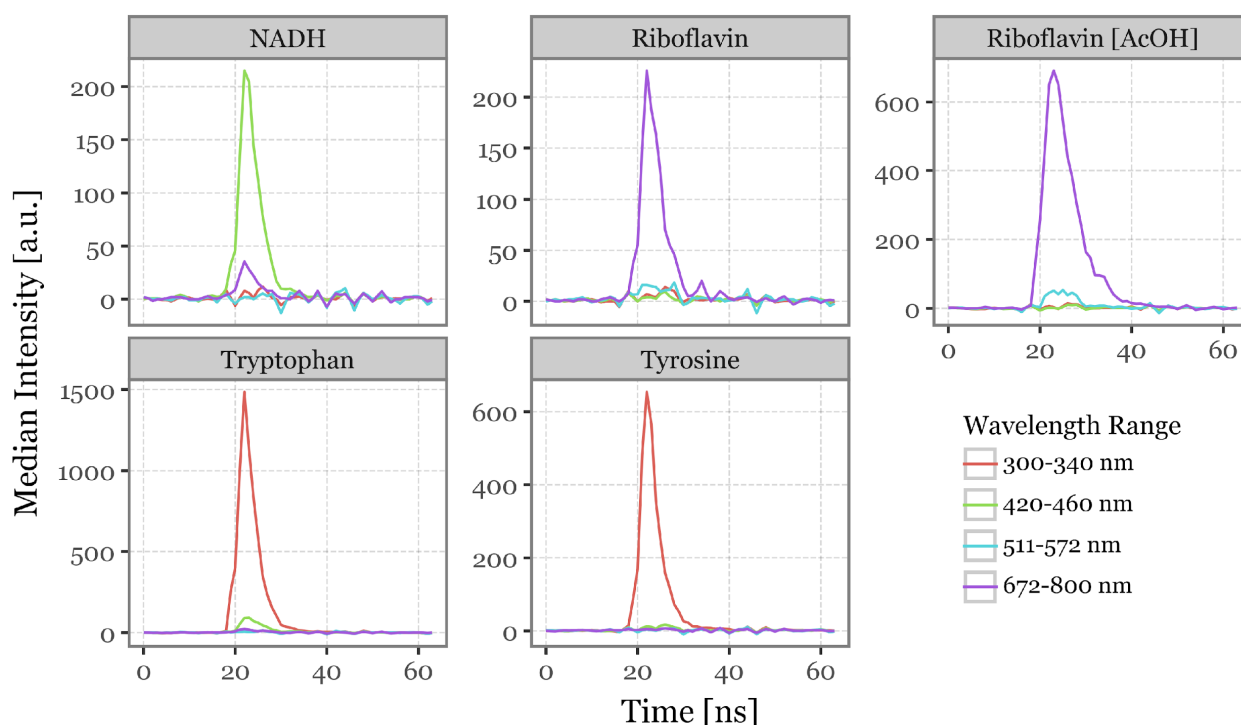
Suppl. Figure 1. Example of the scattering images of 5 particles per sample group as they are either cropped or zero padded to 60 acquisitions (30 μ s time) to be included in the models.



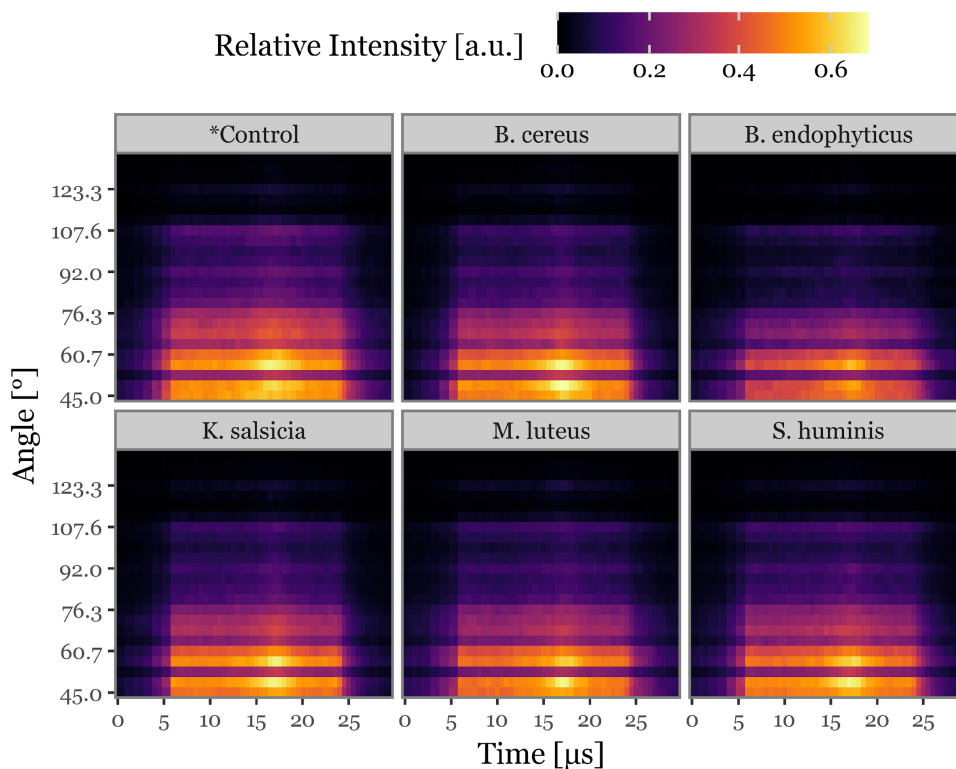
Suppl. Figure 2. Size and fluorescence intensity distribution for bacterial samples. Panel A (left) depicts the distributions of estimated diameters per sample group, and panel B (right) depicts the distribution of maximum recorded fluorescence intensities per sample group. Red vertical line indicates the median, with the blue dashed line indicating the 95th percentile and the blue dotted line indicating the 99th percentile.



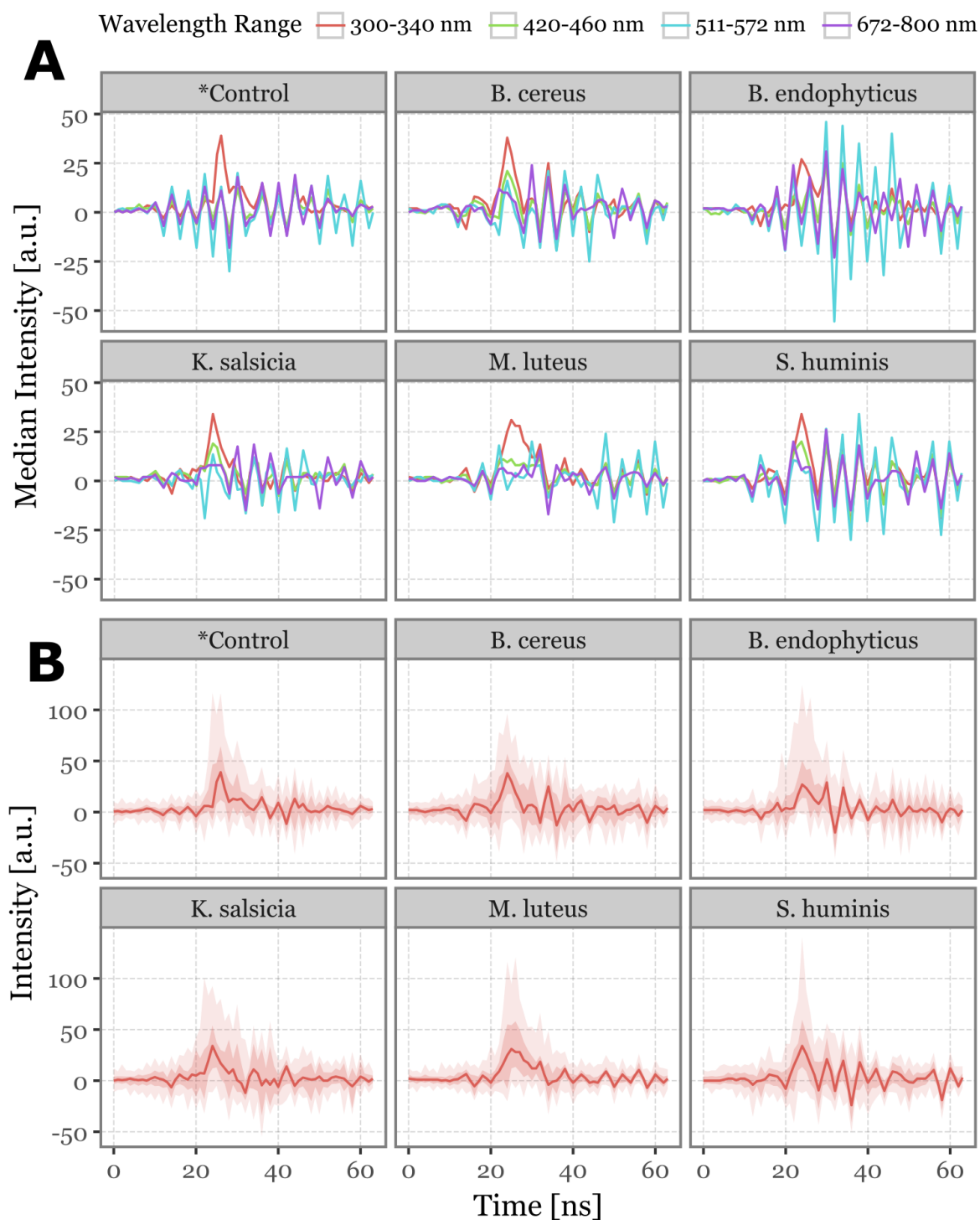
Suppl. Figure 3. Distribution of scattering intensity across all angles as a function of acquisition time. The solid line represents the median value for all particles within each group. The darker shaded area indicates the interquartile range (25th to 75th), while the lighter shaded area represents the 5th to 95th percentile range.



Suppl. Figure 4. Fluorescence lifetimes for aerosolized fluorophores. Median fluorescence intensity as a function of time (in ns) for the 4 specified wavelength ranges across the 100 most fluorescent particles for each of the aerosolized fluorophores.



Suppl. Figure 5. Average scattering images for bacterial aerosols. Heatmaps depicting the average relative light intensity for each combination of time acquisition (x-axis) and angle (y-axis) and group of aerosolized particles.



Suppl. Figure 6. Fluorescence lifetimes for bacterial aerosols. On panel A (top), the median fluorescence intensity as a function of time (in ns) for the 4 specified wavelength ranges across the 100 most fluorescent particles for each of the bacterial groups. On panel B (bottom), the same but focusing only on the 300-340 nm wavelength range, with the dark shaded area representing the interquartile range (25th to 75th percentiles) and the lighter shaded area representing the 5th to 95th percentiles.

