

# Community-developed checklists for publishing images and image analysis



QUAREP-LiMi

## Checklist for image publishing

### Image format

|  |   |
|--|---|
|  | Focus on relevant image content (e.g. crop, rotate, resize)       |
|  | Separate individual images  |
|  | Show example image used for quantifications                       |
|  | Indicate position of zoom-view/inset in full-view/ original image |
|  | Show images of the range of described phenotype                   |

Minimal





### Image colors and channels

|  |  |
|--|--|
|  | Annotation of channels (staining, marker etc.) visible                           |
|  | Adjust brightness/contrast, report adjustments, use uniform color-scales         |
|  | Image comparison: use same adjustments   |
|  | Channel colors: high visibility on the background<br>Best visibility: grayscale  |
|  | Multi-colors: provide grayscale for each color channel                           |
|  | Multi-color: if channels are merged, make accessible to color blind              |
|  | Provide intensity scales (calibration bar) for greyscale, color, pseudo color... |
|  | Pseudo-colored images: additionally provide grayscale version for comparison.    |
|  | Gamma adjustments: additionally provide linear-adjusted image for comparison     |

Minimal







Recommended

Ideal

### Image annotation

|  |   |
|--|---|
|  | Add scale information (scale bar, image length; in figure/figure legend)  |
|  | Explain all annotations (in figure/figure legend)   |
|  | Annotations should be legible (line width, size/point size, color)  |
|  | Annotations should not obscure key data   |
|  | Annotate imaging details important for interpreting the figure.<br><i>Depending on the main message and imaging technique this may be e.g., image pixel size, imaging intervals (time-lapse in movies), exposure time, or anatomical section.</i> |

Minimal





Recommended

### Image availability

|  |   |
|--|---|
|  | Images are shared (lossless compression/microscope images)                          |
|  | Image files are freely downloadable (public database)                               |
|  | Image files are in dedicated image database (added value database or image archive) |

Minimal

Recommended

Ideal

