Checklist for image publishing

Image format

	Minimal	Recommended	Ideal
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	☐	☐	☐

Image colors and channels

|	Minimal	Recommended	Ideal
Annotation of channels (staining, marker etc.) visible	☐	☐	☐
Adjust brightness/contrast, report adjustments, use uniform color-scales	☐	☐	☐
Image comparison: use same adjustments	☐	☐	☐
Multi-color images: accessible to color blind	☐	☐	☐
Channel color high visibility on background	☐	☐	☐
Provide grey-scale for each color channel		☐	☐
Provide color scales for intensity values (greyscale, color, pseudo color…)		☐	☐
Pseudo-colored images: additionally provide greyscale version for comparison.			☐
Gamma adjustments: additionally provide linear-adjusted image for comparison			☐

Image annotation

	Minimal	Recommended	Ideal
Add scale information (scale bar, image length)	☐	☐	☐
Explain all annotations	☐	☐	☐
Legible annotations (point size, color)	☐	☐	☐
Annotations should not obscure key data	☐	☐	☐
Annotate image dimensions (z-distance in image stacks), image pixel size, imaging intervals (time-lapse in movies)		☐	☐
Annotate imaging details e.g., exposure time			☐

Image availability

	Minimal	Recommended	Ideal
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)			☐