

## **Leica Superresolution Ground State Depletion (SR GSD)**

- Use No. 1.5 Coverslips, square 22mm. As close to coverslip as possible.
  - Fix as you normally would. Refer to GSD protocol guide for suggested fixation techniques if needed.
  - Lasers: 488, 532, 642. 405 is used for back pump GSD & TIRF mode only.
  - Recommended Fluorophores:
    - Alexa and Atto 488, Rhodamine-6G, Atto 520, Alexa and Atto 532, Alexa 532, Alexa 546, Atto 565, Alexa 568, Alexa 647, Cy5
    - YFP
  - Recommended dual labeling:
    - AlexaFluor 532 and AlexaFluor 647
    - Atto 488 or AlexaFluor 488 combined with AlexaFluor 647
  - Immunofluorescence suggestions:
    - May need to increase conc. of primary and secondary antibodies
    - May need to increase blocking time, concentration of block, and number of washes
  - Embedding:
    - See protocol guide for details\*:
      - MEA in PBS
      - Glucose-Oxidase Mix
      - PVA
      - Resin LR-White
- \*PVA and MEA should be available at demo
- Depression slides are recommended to mount on (e.g. depression slide 76x26 mm, neoLab® # 1-6293).
  - \*May be available at demo. Details to follow.
  - Coverslip can be fixed to slides via Twinsil.\* (NO Nail Polish)
  - \*Also may be available at demo. Details to follow.