**Nikon A1 Optical Configurations**

**4CH: Standard Blue, Green, Red and Far Red Fluorochromes** (405/488/561/647 excitation dichroic)

CH1 – Blue 450/50, 425-475nm Band Pass (a)

CH2 – Green 525/50, 500-550nm Band Pass (c)

CH3 – Red 595/50, 570-620nm Band Pass (f)

CH4 – Far Red 700/75, 662-737nm Band Pass (f)

**CY: Standard CFP, YFP** (400-457/514 excitation dichroic) (yellow intensity = moderate 2)

CH2 – CFP 485/35, 467-502nm Band Pass (d)

CH3 – YFP 545/40, 525-565nm Band Pass (h)

**CYR: Standard CFP, YFP, RFP** (440/514/560 excitation dichroic) (yellow intensity = poor 3)

CH2 – CFP 485/35, 467-502nm Band Pass (d)

CH3 – YFP 538/33, 521-554nm Band Pass (j)

CH4 – RFP 605/50, 580-630nm Band Pass (j)

**CYFR: CFP, YFP, Chlorophyll (**440/514/560 excitation dichroic) (yellow intensity = best 1)

CH2 – CFP 485/35, 467-502nm Band Pass (d)

CH3 –YFP 565/70, 530-600nm Band Pass (g)

CH4 – Chlorophyll 660nm Long Pass Filter (g)

**COFR: CFP, Orange-shifted YFP, Chlorophyll (**440/514/560 exc dichroic) (yellow intensity = best 1)

CH2 – CFP 485/35, 467-502nm Band Pass (d)

CH3 – Orange-shifted YFP 595/50, 570-620nm Band Pass (f)

CH4 – Chlorophyll 700/75, 662-737nm Band Pass (f)

**BOFR: Blue-shifted GFP, Orange-shifted YFP, Chlorophyll (**440/514/560 exc DM) (yellow = best 1)

CH2 – Blue-shifted GFP 510/50, 485-535nm Band Pass (e)

CH3 – Orange-shifted YFP 595/50, 570-620nm Band Pass (f)

CH4 – Chlorophyll 700/75, 662-737nm Band Pass (f)

**BOFR2: Blue-shifted GFP, Orange-shifted YFP, Chlorophyll (**440/514/560 exc DM) (yellow = poor 3)

CH2 – Blue-shifted GFP 510/50, 485-535nm Band Pass (e)

CH3 – Orange-shifted YFP 580/40, 560-600nm Band Pass (i)

CH4 – Chlorophyll 700/75, 662-737nm Band Pass (i)