The **Ariall "Calliope"** is equipped with 4 lasers and 15 fluorescence channels.

The yellow-green laser is optimal for red fluorescent proteins like mCherry, etc..

Filters can be changed according to fluorochromes used, depending availibility.

Laser	Detector Name	fluorochrome detected (examples)	PMT	Dichroic LP Filter	BP Filter
Violet 405nm	**V450**	**BV421, PacB, V450, VioB, BFP, DAPI, CTViolet, mTurquoise**	**E**	empty	450/50
Violet 405nm	**V525**	**BV510, V500, AmCyan, PacO, DAPI, VioG, KromeO**	**D**	505LP	525/50
Violet 405nm	**V610**	**BV605**	**C**	595LP	610/20
Violet 405nm	**V710**	**BV711**	**B**	670LP	705/70
Violet 405nm	**V780**	**BV785**	**A**	740LP	780/60
Blue 488nm	**SSC**	**Side Scatter**	**C**	empty	488/10
Blue 488nm	**B525**	**FITC, Alexa488, GFP, CFSE, BB515, zsGreen, mVenus**	**B**	505LP	525/50
Blue 488nm	**B685**	**PerCP, PerCPCy5.5**, PI, PerCPVio700, PerCPeF710****	**A**	670LP	685/35
YellowGreen 561nm	**YG582**	**PE, dsRed, RFP**	**E**	empty	582/15
YellowGreen 561nm	**YG610**	**PETexRed (ECD), mCherry, PEDazzle, PECF594, mScarlet**	**D**	600LP	610/20
YellowGreen 561nm	**YG670**	**PECy5, 7-AAD, PI**	**C**	635LP	670/14
YellowGreen 561nm	**YG710**	**PECy5.5 (nicht gleichzeitig mit PECy5!)**	**B**	685LP	710/50
YellowGreen 561nm	**YG780**	**PECy7, PEVio770**	**A**	755LP	780/60
Red 640nm	**R670**	**APC, Alexa647, Cy5**	**C**	empty	670/14
Red 640nm	**R710**	**Alexa700, APCAlexa700**	**B**	685LP	710/50
Red 640nm	**R780**	**APCCy7, APCAlexa750, APCVio770, APCeF780, ZombieNIR**	**A**	755LP	780/60