

SOUTH DAKOTA BOARD OF REGENTS

Budget and Finance
Consent

AGENDA ITEM: 8 – N
DATE: June 26-28, 2018

SUBJECT

Capital Asset Purchase Greater than \$500,000 – USD SSOM Microscope

CONTROLLING STATUTE, RULE, OR POLICY

[SDCL 13-49-15](#)

[BOR Policy 5:4 - Purchasing](#)

BACKGROUND / DISCUSSION

The Board has delegated authority to enter into contracts for the purchase of equipment, supplies, and services by the institution. Purchases of capital assets with a per-unit cost exceeding \$500,000 must be approved by the Board of Regents prior to a purchase order being issued.

IMPACT AND RECOMMENDATIONS

University of South Dakota’s Sanford School of Medicine requests to purchase a Sp8 confocal microscope with STED 3X super resolution technology at an estimated cost of \$650,000. This new microscope system will update and revolutionize USD’s imaging capacity. The microscope will function 50 times faster than its current system. It is equipped with specialized equipment for tunable excitation and emission which will allow USD to perform ten (10) new types of imaging assays. The STEP 3X technology, which merited a Nobel Prize in 2014, will allow USD to do nanoscopic imaging less than 20 nm. This is more than 10-fold smaller than USD could image previously. USD will also be able to do live cell imaging due to the speed from the resonant scanner and incubation system. Lastly, this system is outfitted with a number of state-of-the-art analytical software modules for optimizing and quantifying images. This piece of equipment will be paid for using SSOM Basic Biomedical Sciences departmental funds.

ATTACHMENTS

None

DRAFT MOTION 20180626_8-N:

I move to approve the purchase of a Sp8 confocal microscope with STED 3X super resolution technology requested by USD SSOM’s Basic Biomedical Sciences department at an estimated cost of \$650,000. Departmental funds will be used to pay for this piece of equipment.