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Crystal Salvaging Efforts at SECSG. Jeff Habel, Ashit Shah, Zhi-Jie Liu, Jessie Chang, Sue Chang, Peter Horanyi, Angela Yang, Lisa Huang, John Rose, Bi-Cheng Wang, Biochemistry & Molecular Biology, Univ. of Georgia, B212a Life Science Bldg, Athens, GA 30602 USA.

We define crystal salvaging as efforts beyond additional crystallization screening to produce high quality diffraction crystals. If routine screening either fails to crystallize the protein target or the crystal quality prevents X-ray analysis, these proteins are diverted to the crystallomics group of SECSG (Southeast Collaboratory for Structural Genomics). A variety of salvaging pathways are employed including reductive methylation of surface lysine residues and alternative expression/purification approaches. The crystallomics group is a newly established unit within SECSG. A description of these pathways and other salvaging methods used by this crystallomics group will be presented.

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