

Post-doctoral and staff positions are open for structural studies of AAV, the gene therapy vector, and its host cell interactions, and separately, for computer methods development. Adeno-associated virus is the leading vector for human gene therapy and was recently approved in treatments of SMA and hemophilia A & B. Our studies of AAV entry and trafficking advance fundamental virology and lay a key foundation for further development of gene therapies. Following our X-ray structure of AAV and identification of host factor dependencies through genome-wide screens, we have solved cryo-EM structures of complexes with the entry receptor. The focus is now on the trafficking of AAV into the nucleus. Those with training in any area of structural biophysics or molecular biology are welcome to apply. Those with experience in software engineering can be considered for separate research into cryo-EM structure refinement methods. Appointments at the University of Missouri can be as post-doctoral fellows or as research staff with a supervisory role, depending on experience. Applicants should visit <https://chapman.missouri.edu/openings/> and apply to the position of interest using the link provided. A CV should be uploaded with a cover letter briefly summarizing research experience and interests, and with the contact details for three referees. Applications will be reviewed until the positions are filled. Inquiries should be directed to Michael Chapman (biochemchair@missouri.edu).