The University of California, San Diego Center for Phage Innovation and Therapeutics (iPATH) is seeking a Postdoctoral Fellow to investigate the effects of bacteriophages in altering the human microbiome and in combating pathogens. The work will be performed under the mentorship of Dr. David Pride, MD PhD, Associate Professor of Pathology and Medicine and the leadership at iPATH. The work will focus on identifying and developing bacteriophages active against human pathogens, cultivating and quantifying bacteria and bacteriophages, microbiome and metagenomics processing and analysis, and the use of standard molecular biology techniques such as qPCR for quantification of bacteria. The fellow also will be expected to participate in clinical trial work and in working with bacteria and phages from human specimens. Salary is commensurate with the NIH salary payscale.

Duties:

- Processing of specimens for sequencing
- Use of bioinformatics techniques to characterize bacteria and viruses from microbiomes
- Cultivation of both bacteria and bacteriophages
- Quantitative PCR
- Interpretation of results and writing of manuscripts
- Presentation at lab and iPATH meetings
- Participation in other laboratory and iPATH activities

Requirements:

- **EDUCATION:** Ph.D. or M.D. in Microbiology or in a related field or expected to receive PhD by 12/1/18
- **EXPERIENCE:** No postgraduate work required; Experience with sterile technique and in interpretation of next-generation sequencing techniques desired;
- Strong knowledge of microbiology and molecular biology techniques;
- Understanding and working knowledge of research lab requirements/procedures and scientific research methodology;
- Strong scientific writing skills and demonstrated capacity to drive first author publications;
- Strong knowledge of research procedures and protocols gained through education or experience;
- Experience in a variety of research techniques/methods and follow-up data collection;
- Ability to work independently and within a team context;
- Excellent communication skills (written and verbal), including public speaking skills;
- Excellent organization skills and attention to detail;
- Proven technical and analytical skills;
- Ability to troubleshoot an experiment as necessary;
- Proficiency with Microsoft Word, Excel, Endnote and Corel Draw;
- Intermediate knowledge of math and statistics.

Environmental Conditions :

- Exposure to wet lab environment, blood borne pathogens, toxic / caustic chemicals or reagents.

How to Apply:

Please send CV and the names of 3 referees to Dr. Pride at pridedt9@gmail.com or iPATH at ipath@ucsd.edu.