

Student Free Design Activities (One Health on-site Training)
 申請書 Application

報告者 [Reporter]

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活動報告 [Activity Report]

※活動内容が判る様な写真や図表を加えて下さい。 / Provide photos, tables and figures that clearly show the activities during the period.

タイトル [Course Title]	ASM Microbe 2023
実施期間 [Periods]	14 - 21 June 2023
共同実施者 [Other participant s]	No
言語 [Language]	English
実施場所 [Location]	George R. Brown Convention Center, Houston, Texas, USA
申請時計画の実施報告 [Report how you carried out your plan in the application form]	
<p>During the conference, I had the opportunity to attend a wide range of seminars and workshop sessions, which enriched my knowledge and provided valuable insights in the field of microbiology. Additionally, I had the privilege of presenting my research work in both a poster and oral presentation during the poster spotlight session.</p> <p>The poster spotlight session was a particularly engaging experience, as it allowed me to summarize the key findings of my research within a 10-minute talk. It was a platform for me to showcase the significance of my work titled "WQ-3034 & WQ-3154: The New Fluoroquinolones with High Inhibitory Effect against Quinolone-Resistant <i>Salmonella</i> Typhimurium DNA Gyrase." The audience was captivated by the interesting discovery of the superior inhibitory effect exhibited by these new fluoroquinolones, WQ-3034 and WQ-3154, compared to ciprofloxacin, a well-known fluoroquinolone.</p> <p>During the 5-minute Q&A session that followed my presentation, I had the opportunity to engage with the audience and address their questions and inquiries regarding my research. In addition to the poster spotlight session, I had the pleasure of engaging with curious individuals who visited my poster stand. This allowed me to have meaningful discussions, explaining my research in more detail. The positive feedback and interest expressed by the audience were truly rewarding and encouraging.</p> <p>Overall, I am pleased to say that my presentation went smoothly and was met with success. The attention garnered by my research work during the conference has further motivated me to continue my endeavors in exploring and developing effective treatments against quinolone-resistant <i>Salmonella</i>. I am grateful for the platform provided by the conference to share my findings and contribute to the scientific community.</p>	
目的達成状況報告 [Report how you achieved your goal/objectives listed in the application form]	

Initially, when I set out to attend ASM Microbe 2023, I had four distinct objectives in mind, each contributing to my overall professional growth and development. Firstly, I aimed to present my research work to a diverse audience, showcasing my findings and insights. This objective was successfully achieved as I had the opportunity to share my work with a wide range of attendees. The positive feedback and encouragement I received not only boosted my confidence but also provided valuable validation for my future research endeavors. Through this experience, I honed my presentation skills and improved my ability to effectively communicate complex scientific concepts to others.

Secondly, I sought to immerse myself in the latest research and advancements in the field of microbiology. ASM Microbe 2023 proved to be a treasure trove of knowledge, offering a plethora of seminars, workshops, and sessions on various topics. I seized the opportunity to expand my understanding of diverse areas within microbiology, such as the innovative approaches to developing new antibiotics, the exploration of bacterial communities in different environments, and the intriguing subject of "The Microbiology of Human Spaceflight." These enlightening sessions broadened my horizons and deepened my appreciation for the ever-evolving landscape of microbiological research.

Building a robust professional network constituted my third objective. I actively engaged with fellow graduate students from different universities, fostering connections that extend beyond the confines of the conference. It was particularly fortuitous to meet an alumnus from Hokkaido University who now works in the United States, as we shared common academic roots and could exchange valuable insights. Furthermore, I seized the opportunity to connect with esteemed professors from renowned universities and researchers working in industry and healthcare settings. These connections have the potential to open doors for collaboration, mentorship, and future career prospects.

Lastly, the exhibitions at ASM Microbe 2023 provided me with invaluable exposure to cutting-edge technologies and tools in the field of microbiology. I discovered the latest applications of next-generation sequencing in various research domains, which highlighted the transformative impact of these advancements on our understanding of microbial ecosystems. Additionally, I familiarized myself with the Automated Plate Reading System, a technological marvel that streamlines laboratory workflows and enhances efficiency. The access to these resources and tools was both enlightening and inspiring, propelling me to explore novel avenues within my own research endeavors.

In summary, ASM Microbe 2023 exceeded my expectations in terms of achieving my objectives. I successfully presented my research, expanded my knowledge base, established a robust professional network, and gained exposure to cutting-edge technologies. This comprehensive experience has left an indelible mark on my career trajectory, motivating me to continue pushing boundaries, embracing innovation, and contributing to the ever-advancing field of microbiology.

One Health Approach実践報告 [Report how your activity could link to One Health Approach]

This conference, ASM Microbe 2023, aligns directly with the One Health Approach, which emphasizes the interconnectedness of human, animal, and environmental health. The conference covers a diverse range of microbiology tracks, spanning multiple disciplines and addressing various aspects of the field. These tracks include Antimicrobial Agents and Resistance, Applied and Environmental Science, Climate Change and Microbes, Clinical Infections and Vaccines, Clinical and Public Health Microbiology, Ecology, Evolution and Biodiversity, Host-Microbe Biology, Molecular Biology and Physiology, and Profession of Microbiology. The comprehensive coverage of these tracks reflects the conference's commitment to exploring microbiological research from different perspectives and its implications for human, animal, and environmental health.

Attending ASM Microbe 2023 provided me with a unique opportunity to engage with students, professors, and researchers from diverse research fields. This interdisciplinary environment fosters collaboration and the exchange of ideas, opening doors for potential future collaborations. Interacting with individuals who possess expertise in different areas of microbiology expands my own knowledge base and widens the scope of possibilities for future research endeavors. The connections established during the conference have the potential to contribute to the One Health Approach, as they facilitate interdisciplinary collaborations and the integration of different perspectives and expertise.

For example, in addition to the research I presented at the conference, I also have another ongoing project involving the study of *Salmonella* isolated from canal water. Attending ASM Microbe 2023 provided a valuable opportunity to discuss my research with experts in the field of environmental microbiology. I had the privilege of engaging in a discussion with a researcher who specializes in studying water and air in wastewater treatment plants. During our conversation, he recommended exploring the environmental samples using metagenomic techniques to obtain a broader and more comprehensive dataset. This suggestion opens up new avenues for my research, highlighting the potential benefits of employing advanced genomic approaches in environmental microbiology studies. The insights gained from this interaction have the potential to enhance the scope and impact of my research, contributing to a deeper understanding of the ecological dynamics of *Salmonella* in canal water and its implications for public health.

In conclusion, ASM Microbe 2023 not only offers a platform for presenting and discussing research but also promotes the One Health Approach by covering various tracks of microbiology. Engaging with students, professors, and researchers from different fields fosters interdisciplinary collaborations and expands the possibilities for future research endeavors. Furthermore, the conference provided valuable insights and recommendations for my ongoing research on *Salmonella* in canal water, encouraging the exploration of metagenomic techniques to obtain more comprehensive data. This conference experience has broadened my perspectives, enriched my knowledge, and furthered my commitment to contributing to the One Health approach through microbiological research.

備考 [Remarks]

- ※ 報告書を作成後、担当教員に確認をお願いし署名をもらってください。PDFファイルとしてVetLog上の提出書類「Student Free Design Activities報告書」としてアップロードして下さい。
- ※ **Please ask your instructor to check this report and get his/her signature before you submit to WISE Office. The scanned report is to be submitted strictly through VetLog.**