

Tony Hong Wei Chang

Casual - Non-Exempt, Orthopaedic Surgery

Publications

PUBLICATIONS

- **Total hip arthroplasty for diffuse skeletal fluorosis.** *BMJ case reports*
Chang, T., Steven, K. J., Charville, G., Amanatullah, D. F.
2025; 18 (10)
- **Circulating Bacteriophage DNA Distinguishes Staphylococcal Infection from Commensal Colonization.** *The Journal of arthroplasty*
Manasherob, R., Furukawa, D., Haddock, N. L., Chang, T. H., Hargil, A., Arora, P., Banaei, N., Maloney, W. J., Bollyky, P. L., Amanatullah, D. F.
2025
- **High Prophage Count in Staphylococcus Periprosthetic Joint Infection is Associated with an Increase in Antibiotic Resistance Genes.** *The Journal of arthroplasty*
Chang, T. H., Manasherob, R., Mrutyunjaya, S., Pourtois, J. D., Hargil, A., Hong, T. S., Arora, P., Haddock, N. L., Furkuawa, D., Amanatullah, D. F.
2025
- **New Pseudomonas infections drive Pf phage transmission in CF airways.** *JCI insight*
Pourtois, J. D., Haddock, N. L., Gupta, A., Khosravi, A., Martinez, H. A., Schmidt, A. K., Prakash, P. S., Jain, R., Fleming, P., Chang, T. H., Milla, C., Secor, P. R., De Leo, et al
2025
- **Optimized Dosing and Delivery of Bacteriophage Therapy for Chronic Wound Infections**
Lin, Y., Dharmaraj, T., Chen, Q., Echterhof, A., Zhang, L. J., Chang, T., Pourtois, J., Liuw, C., Li, Z., Hajfathalian, M., Blankenberg, F. G., Amanatullah, D., Chaudhuri, et al
WILEY.2025
- **Prophages are infrequently associated with antibiotic resistance in Pseudomonas aeruginosa clinical isolates.** *mSphere*
Chang, T. H., Pourtois, J. D., Haddock, N. L., Furukawa, D., Kelly, K. E., Amanatullah, D. F., Burgener, E., Milla, C., Banaei, N., Bollyky, P. L.
2025: e0090424
- **Pseudomonas superinfection drives Pf phage transmission within airway infections in patients with cystic fibrosis.** *bioRxiv : the preprint server for biology*
Pourtois, J. D., Haddock, N. L., Gupta, A., Khosravi, A., Martinez, H., Schmidt, A. K., Prakash, P. S., Jain, R., Fleming, P., Chang, T. H., Milla, C., Secor, P. R., De Leo, et al
2025
- **Bacteriophage therapy for multidrug-resistant infections: current technologies and therapeutic approaches** *The Journal of Clinical Investigation*
Kim, M., Suh, G. A., Cullen, G. D., Rodriguez, S. P., Dharmaraj, T., Chang, T. H., Li, Z., Chen, Q., Green, S. I., Lavigne, R., Pirnay, J., Bollyky, P. L., Sacher, et al
2025
- **Feasibility and Methodology of a Pilot Free Blood Pressure Monitoring and Follow-Up Program at Two Free Clinics.** *Journal of primary care & community health*
Mikos, G., Yu, B., Balbin, J., Martinez-Reyes, L., Tang, J. M., Lieu, B. N., Tran, E., Xue, A., Lee, J., Wary, N., Franke, C., Panyanouvong, N., Chaclan, et al
2024; 15: 21501319241278836
- **Pf bacteriophages hinder sputum antibiotic diffusion via electrostatic binding.** *Science advances*

Chen, Q., Cai, P., Chang, T. H., Burgener, E., Kratochvil, M. J., Gupta, A., Hargill, A., Secor, P. R., Nielsen, J. E., Barron, A. E., Milla, C., Heilshorn, S. C., Spakowitz, et al
2024; 10 (22): ead15576

- **Hydrogels for Local and Sustained Delivery of Bacteriophages to Treat Multidrug-Resistant Wound Infections.** *bioRxiv : the preprint server for biology*
Lin, Y. H., Dharmaraj, T., Chen, Q., Echterhof, A., Manasherob, R., Zheng, L. J., de Leeuw, C., Peterson, N. A., Stannard, W., Li, Z., Hajfathalian, M., Hargil, A., Martinez, et al
2024
- **Pf bacteriophages hinder sputum antibiotic diffusion via electrostatic binding.** *bioRxiv : the preprint server for biology*
Chen, Q., Cai, P., Chang, T. H., Burgener, E., Kratochvil, M. J., Gupta, A., Hargil, A., Secor, P. R., Nielsen, J. E., Barron, A. E., Milla, C., Heilshorn, S. C., Spakowitz, et al
2024
- **13 Pseudomonas transmission dynamics revealed by prophage barcoding** *Journal of Cystic Fibrosis*
Pourtois, J., Haddock, N., Martinez, H., Schmidt, A., Gupta, A., Prakash, P., Chang, T., Amantullah, D., Milla, C., Secor, P., DeLeo, G., Bollyky, P., Burgener, et al
2024; 23
- **Rapid assessment of changes in phage bioactivity using dynamic light scattering.** *PNAS nexus*
Dharmaraj, T., Kratochvil, M. J., Pourtois, J. D., Chen, Q., Hajfathalian, M., Hargil, A., Lin, Y. H., Evans, Z., Oromí-Bosch, A., Berry, J. D., McBride, R., Haddock, N. L., Holman, et al
2023; 2 (12): pgad406
- **The Environmental Impact of Orthopaedic Surgery.** *The Journal of bone and joint surgery. American volume*
Saleh, J. R., Mitchell, A., Kha, S. T., Outtersson, R., Choi, A., Allen, L., Chang, T., Ladd, A. L., Goodman, S. B., Fox, P., Chou, L.
2022