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Kort præsentation

Understanding bacteria and the viruses that infect them
My research interests lie in understanding the interactions between bacteria and their bacteriophages - viruses that only infect bacteria. These 'phages' can either kill their bacterial hosts or change them by facilitating horizontal transfer of genes to nearby bacteria. Some recent projects have focused on new routes of horizontal gene transfer by staphylococcal phages (phages that only infect staphylococci) and how lytic phages can overcome anti-phage defense systems like CRISPR-Cas in *S. aureus*.

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Publikationer

An Endogenous *Staphylococcus aureus* CRISPR-Cas System Limits Phage Proliferation and Is Efficiently Excised from the Genome as Part of the SCC*mec* Cassette
Mikkelsen, K., Bowring, Janine Zara, Ng, Y. K., Svanberg Frisinger, Frida, Maglegaard, J. K., Li, Q., Sieber, R. N., Petersen, A., Andersen, P. S., Rostøl, J. T., Høyland-Kroghsbo, Nina Molin & Ingmer, Hanne, 2023, I: Microbiology Spectrum. 11, 4, e01277-23.

Cross-species communication via agr controls phage susceptibility in Staphylococcus aureus
Yang, Jingxian, Bowring, Janine Zara, Krusche, J., Lehmann, Esther, Bejder, Benjamin Svejdal, Fulaz Silva, Stephanie, Bojer, Martin Saxtorph, Grunert, T., Peschel, A. & Ingmer, Hanne, 2023, I: Cell Reports. 42, 9, 113154.

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Ciges Tomas, Jose Rafael, Alite, C., Humphrey, S., Donderis, J., Bowring, Janine Zara, Salvatella, X., Penadés, J. R. & Marina, A., 2019, I: Nature Communications. 10, 1, s. 3676

Convergent evolution involving dimeric and trimeric dUTPases in pathogenicity island mobilization
Donderis, J., Bowring, Janine Zara, Maiques, E., Ciges Tomas, Jose Rafael, Alite, C., Mehmedov, I., Tormo-Mas, M. A., Penadés, J. R. & Marina, A., sep. 2017, I: PLoS Pathogens. 13, 9, s. e1006581

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Another look at the mechanism involving trimeric dUTPases in Staphylococcus aureus pathogenicity island induction involves novel players in the party

Maiques, E., Quiles-Puchalt, N., Donderis, J., Ciges Tomas, Jose Rafael, Alite, C., Bowring, Janine Zara, Humphrey, S., Penadés, J. R. & Marina, A., 20 jun. 2016, I: Nucleic Acids Research. 44, 11, s. 5457-69 13 s.