Eawag Überlandstrasse 133 8600 Dübendorf Switzerland Phone +41 (0)58 765 53 61 Fax +41 (0)58 765 53 75 info@eawag.ch www.eawag.ch



Seminar Invitation Genomes everywhere, but what to make of them? A 2-part story of mud and matrix wrangling

Speaker D	Daan Speth, Postdoc in the <u>Orphan Lab</u> at Caltech
	April 27, 2021, 16.00 – 17.00 Online via Zoom, contact admin.umik@eawag.ch for access details
po sa hy G In a o g	Metagenomic sequencing has revolutionized our insight in environmental microbial communities, particularly those in conditions challenging to replicate in the lab. In the first part of this talk I'll discuss sampling, metagenomic sequencing and analysis of the sediment community at the deepest sydrothermal vent field in the pacific ocean, the recently discovered Auka vents in Pescadero Basin, Bulf of California. In addition to providing insight in the microbial communities at the sampled sites, metagenomic analyses yield genomic information of diverse lineages which can be leveraged for follow up studies on wide-ranging topics. The second part of the talk I'll provide an example of this, leveraging available genomic data to gain new insight in the complex iron sulfur molybdenum superfamily, dubbed "life's nost versatile bioenergetic enzyme".