

11 September 2024
Tor Hildebrand, PhD
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Re: Correlyze External Partner Agreement

Dear Tor,

Thank you for the invitation to be involved as an external partner on the Correlyze consortium to develop a correlative image analysis workflow. I am delighted to be involved and to provide advice based on my laboratory's experience with micro-CT, histomorphometry, Fourier-transform infrared microspectroscopy (FTIRM), quantitative backscattered electron microscopy and confocal imaging of the osteocyte network.

As you know, we have a long history of phenotypic analysis of genetically-altered mouse models, using both histomorphometry and micro-CT, and are particularly interested in region-specific changes that happen during the process of cortical bone development. More recently, we have become interested in how the material quality of bone also changes during this process and how that relates to the emerging cortical structure, as well as studying age-related degeneration in bone aging. To date, our work has depended on correlative associations between the different imaging modalities we use. However, without satisfactory methods to co-register the images, the work has been somewhat limited in the conclusions we can draw. I am excited by the possibilities offered by XamFlow and Correlyze for our research goals and anticipate that it will be a helpful technique for our ongoing work.

I am looking forward to working together with you to apply XamFlow and Correlyze to our research questions. I am confident that it will improve our workflow, reduce bias in our interpretation, and ultimately give us a better understanding of these fundamental physiological processes that are so important for human health.

I am very happy to be an external partner and look forward to working with you more.

Kind regards,



Professor Natalie Sims, PhD
Unit Head, Bone Biology and Disease Unit
Deputy Director, St. Vincent's Institute of Medical Research
Professorial Fellow, The University of Melbourne