

Séminaire: Cellular mechanisms associated with calcium dysregulation in amelogenesis imperfecta

Nous vous invitons à un Lunch & Learn animé par **Pr. Rodrigo S. Lacruz de l'Université de New York**

Mercredi 6 mai à 13h en salle 406, Faculté de chirurgie dentaire, Université de Strasbourg



Research Interests / Professional Overview :

The main research focus of my lab is to understand how deficiencies in calcium signaling affect human diseases. Calcium is a key regulator of several cell functions through changes in its intracellular concentration that is decoded by several proteins leading to the initiation of important cell functions including metabolism. We focus on several diseases including amelogenesis imperfecta (deficient enamel), Sjogren's syndrome -an autoimmune disease affecting the salivary glands-, and Down syndrome, caused by trisomy of all or part of human chromosome 21 (HSA21), the most common genetic cause of intellectual disability. My research combines molecular biology, physiology, confocal and electron microscopy, genetics and morphology to identify key growth processes and pathways.

My lab originally discovered several proteins involved in Ca²⁺ uptake in the enamel forming ameloblast cells. The main pathway for Ca²⁺ influx is the store operated Ca²⁺ entry (SOCE) formed by the ER-membrane bound STIM1 protein, and the plasma membrane protein forming the pore of the channel known as ORAI1. Activation of CRAC channels results in a sustained influx

Plus : <https://dental.nyu.edu/faculty/ft/rsl10.html>

Merci de confirmer votre présence par retour mail (claudio.ribeiro@unistra.fr) et de préciser votre choix de sandwich

- végété : emmenthal, salade
- complet : jambon blanc, fromage
- bagnat : thon, oeuf, mayo
- italien : jambon cru, chèvre, figue, miel
- kebab : volaille, épices, sauce blanche

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