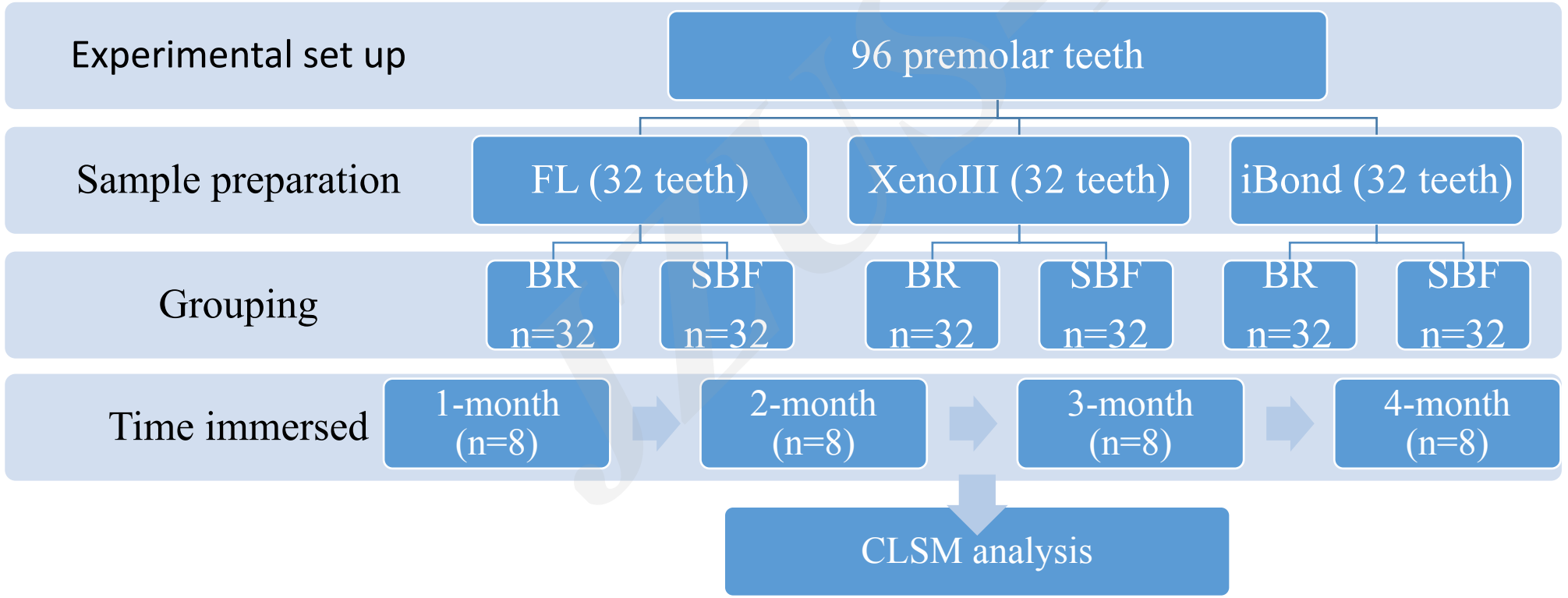
Cite this as: Hui-ping LIN, Jun LIN, Juan LI, Jing-hong XU, Christian MEHL, 2016. In vitro remineralization of hybrid layers using biomimetic analogs. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology).* **17**(11):864-873.
http://dx.doi.org/10.1631/jzus.B1600151

In vitro remineralization of hybrid layers using biomimetic analogs

Key words: Remineralization, Dentin, Adhesive resin, Biomimetic analogs, Altered collagen, Biomimetic, Confocal microscopy, Fluorescence

Research Summary

Resin-dentin bond degradation is a major cause of restoration failures. The major aim of the current study was to evaluate the impact of a remineralization medium on collagen matrices of hybrid layers of three different adhesive resins using nanotechnology methods.



Null-hypotheses

with regard to Rhodamine B uptake of the hybrid layers to be tested

1. There is no difference between a two-step etch-and-rinse adhesive resin, a self-etching one-step two-bottle adhesive resin and a self-etching one-bottle adhesive resin.
2. The placement of the experimental specimens in a remineralization medium has no effect in comparison to a control group.
3. The duration of immersion has no effect.

Our conclusion

Please read the article,

As all the ***null-hypotheses*** will be overturned.