



**Keywords:** D  
Orthodontics

**Introduction**

Over the co

aligner

### **Temporomandibular joint**

Malocclusion can lead to various problems, including difficulties in

of oxygen plasma treatment on the biocompatibility of the materials was concentrated too. In Supplement, a comprehensive analysis of the effects of oxygen plasma treatment and UV curing time on the surface properties of DSG and DLT is presented. Oxygen plasma treatment of both DSG and DLT resins resulted in significant changes to the surface properties of the materials, including increased wettability and the oxygen: carbon ratios that accompanied it. UV curing had no effect on either material's contact angle measurements or oxygen/carbon ratios [9].

## Conclusion

In conclusion, despite their ISO-certification of biocompatibility and commercial marketing for dental applications, the use of two 3DP resins in a reproductive biology laboratory unexpectedly revealed severe reproductive toxicity following both direct and indirect exposure of murine oocytes to these materials *in vitro*. These results show that the oocyte is a sensitive and effective cell type for studying the effects of new materials on reproduction. In addition, the discovery of the release of Tinuvin 292 from the DLT resin and the confirmation of its capacity to cause negative effects on the oocyte emphasize the need for clarification regarding the certification of biocompatibility of materials. Additionally, this discovery suggests that additional research should be conducted into the possibility that Tinuvin 292, in addition to other compounds of a similar nature, can cause similar effects *in vivo* [10].

## Acknowledgment

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## References

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