

## HIT VALIDATION-HCC2429 cells

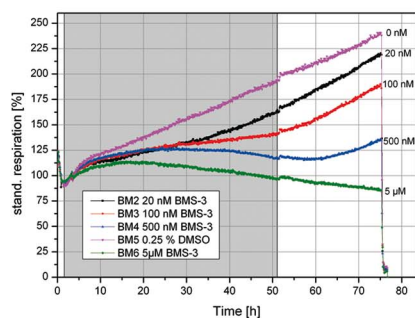


Fig. 1: Standardized impedance/adhesion of HCC2429 cells during 60h exposure to 0.1 µM or 1 µM Cpd 1.

## DOSE RESPONSE-Calu6 cells

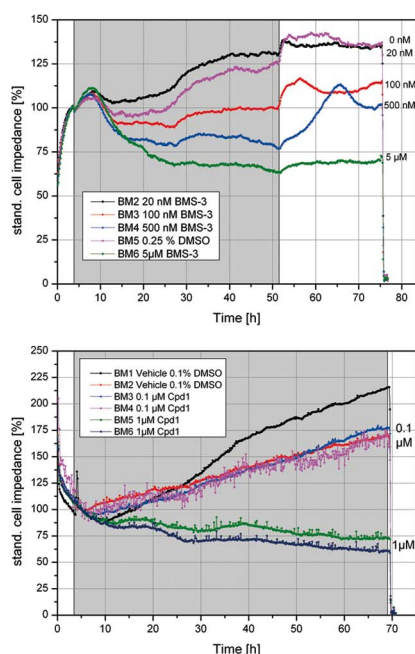


Fig. 2: Standardized impedance/adhesion (A) and respiration rates (B) of Calu6 cells during 48h exposure to increasing BMS-3 concentrations.

Importantly, the same effect was also achieved by 12h exposure. However, the 6h exposure effects were less pronounced and had a later onset. This indicates that in an animal xenograft model of cancer drug exposure of 1 µM for 12h may be sufficient to achieve efficacy.

## CONCLUSION

Beyond hit validation the real-time and multi-parametric **Bionas Discovery™ 2500 system** provided information for mode of action, onset of action and even estimation of effective dose level/exposure time of synthesized test compounds.

## EXPOSURE TIME-A427 cells

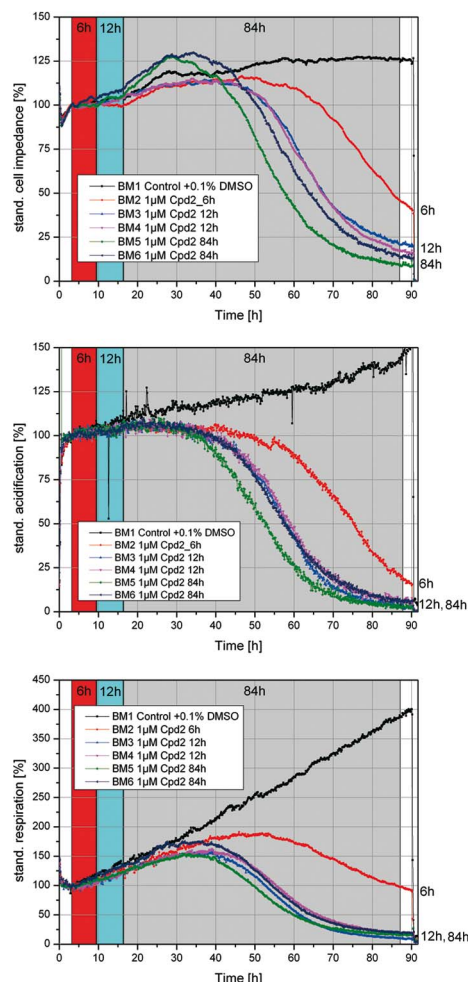


Fig. 3: Standardized impedance/adhesion (A), acidification (B) and respiration rates (C) of A427 cells during 6, 12 or 84h exposure to 1 µM Cpd 2.

These results may potentially be indicative for animal efficacy models.

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## KEYWORDS

Drug discovery, hit validation, drug profiling, pharmacodynamics

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