

Subject: Response to 'Request for information on Alternative Skin Sensitisation Test Methods and Testing Strategies'

Date: Tuesday, December 10, 2013 3:40:24 PM Eastern Standard Time

From: Maxwell, Gavin

To: NIEHS NICEATM

Dear Sir or Madam,

In response to your request to receive information on the state of the science regarding alternative test methods and testing strategies for skin sensitization I would like to make you aware of our ongoing research to develop a quantitative mathematical model based upon the key events summarized within the Skin Sensitization Adverse Outcome Pathway (AOP) and informed by fundamental research to better characterize the adverse immune response to chemical sensitizers.

Our work aims to develop a mathematical model that can predict the sensitiser-induced T cell response, using protein reactivity & skin bioavailability input data, as the basis for our non-animal risk assessment approach for skin sensitisation. This research is being conducted in partnership with four UK academic institutions and has the potential to replace existing quantitative risk assessment approach for skin sensitisation. I attach four recent communications (2 publications & 2 presentations) that further describe our approach for your information.

Regards,

Gavin Maxwell



Dr Gavin Maxwell [Science Leader - Safety & Environmental Assurance Centre](#)

[REDACTED]

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