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CILIA

Customized Intelligent Life-Inspired Arrays

Integrated Project

Information Society Technologies
Future & Emerging Technologies
Proactive Initiative BIO-I3

DELIVERABLE: D1.2.6 – Executive Summary

H A I R A R R A Y R E S P O N S E T O S T I M U L I

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Start day of project:	September 1st, 2005	Duration: 48 months
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EXECUTIVE SUMMARY

The primary purpose of the work described here was to establish the viability of using a high speed camera for the analysis of the cerci filiform hair array response. The performance indicator for its success is that the camera resolution be high enough to obtain image differences and that hair angular displacement was measurable. In addition, some preliminary work on viscous coupling effects is reported.

The main purpose of the experiments reported here, therefore, was to explore and optimise the experimental methodology. For the sake of brevity, we report primarily on the methodology used and comment on the experiments envisaged in the coming months. A more in-depth report (D1.3.4) will be provided in M36 which describes the pattern of hair array movement in response to mechanical and acoustic stimuli.