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| <b>Session 4</b>     | <b>Start-ups/SMEs looking for finance - pre-seed/angel/seed funding</b>                                     |
| Pitch Title          | Lactic acid production valorizes residual streams   |
| Company              | Nature's Principles BV  |
| Speaker              | Jules Rombouts  |
| Keywords feedstock   | Residual streams from the food and feed industry – carbohydrates – cardboard and paper waste – molasse      |
| Keywords technology  | Lactic acid production – fermentation – circular biochemicals – poly lactic acid ingredients – biocatalysis |
| Keywords End-Product | Renewable solvents – lactic acid and derivatives – lactate minerals – organic acids                         |

**Abstract:**

The industrial lactic acid production uses mainstream refined crop sugars, such as cane sugar. Many companies have failed to develop cost-effective lactic acid production from 2G feedstocks, such as paper waste. The industry is concerned that regulations will ban the use of refined sugars for the production of biochemicals such as bioplastics. We upscale the necessary technology for lactic acid production from industrial residual streams instead of refined sugars, so that low-value streams can be valorized. Our Omniflex® technology relies on microbial communities and can ferment quickly and effectively many different carbohydrates in complex mixtures. We've reached pilot scale using whole sugar beets as feedstock with promising results. Nature's Principles is here to make biochemicals circular and cost effective.

