Provisional program

9.00: **Lecture:** Welcome and brief introduction to plant metabolomics(Prof. Robert Hall)

9.30 MS based metabolomics (Dr Sander van der Krol)

10.15: Break

10.30: **Practical Demo:** Chromatograms and Mass spectra (Dr Sander van der Krol)

11.15: **Lecture:** Comparing metabolomics data (Dr Sander van der Krol)

12.00: Lunch

13.00: **Introduction LCQTOF MS / GCTOF MS / SPME GC MS (3 groups)**

13.45: **Sample preparation + extraction / analysis Platform 1**

17.00: End of Day 1

Day 2: Wet experiments

9.00: **Lecture:** From Mass to Metabolite to Biology (Dr Sander van der Krol)

10.00: Break

10.15: **Practical + Demo**: GCMS Data processing (Dr Roland Mumm)

12.00: Lunch

13.00: **Introduction** to the practical sessions

13.30 **Extraction / Analysis Platform 2 (3 groups)**

15.00: **Lecture:** Introduction to multivariate data analysis(Dr Chris Maliepaard)

16.00: **Practical**: GCMS data processing continued (Dr Roland Mumm)

17.00: End of day 2

09.00: **Lecture:** Challenges of metabolite annotation (Dr Ric de Vos, Dr Roland Mumm)

10.00: Break

10.15 **Practical + Demo**: LCMS Data processing (Dr Ric de Vos)

12.00: Lunch

13.00: **Extraction / Analysis Platform 2 (3 groups)**

15.00: **Practical**: LCMS data processing (continued)

17.00: End of day 3

09.00: **Lecture:** Moving towards pathway analysis (Dr Sander van der Krol)

10.00: **Practical:** Evaluation data processing, comparing results

12.00: Lunch

18.30 Workshop Dinner with speakers

9.00: **Discussion**: Problems and solutions

10.45: Break

11.00: Evaluation course

12.00: Farewell Lunch

14.00: Travel home