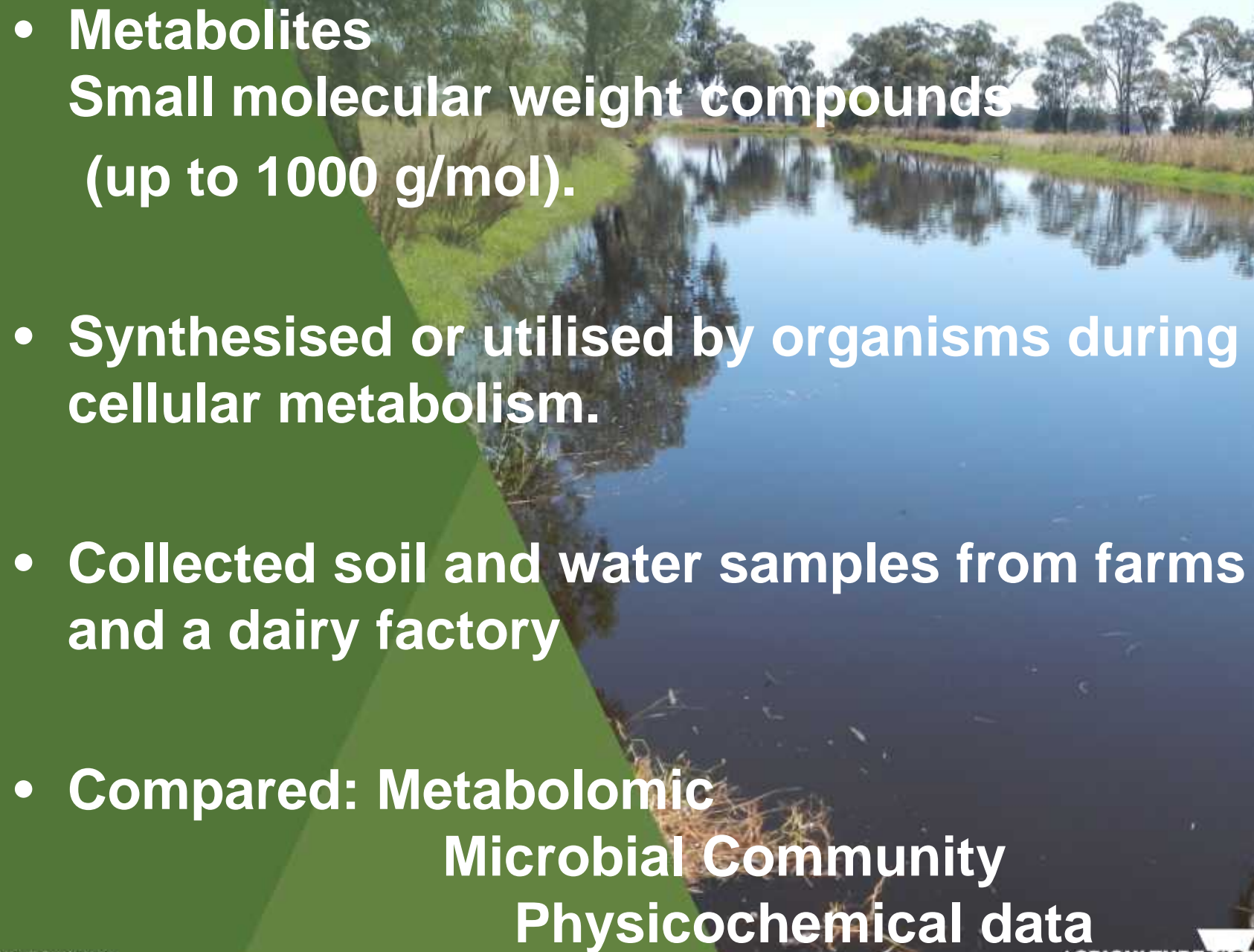
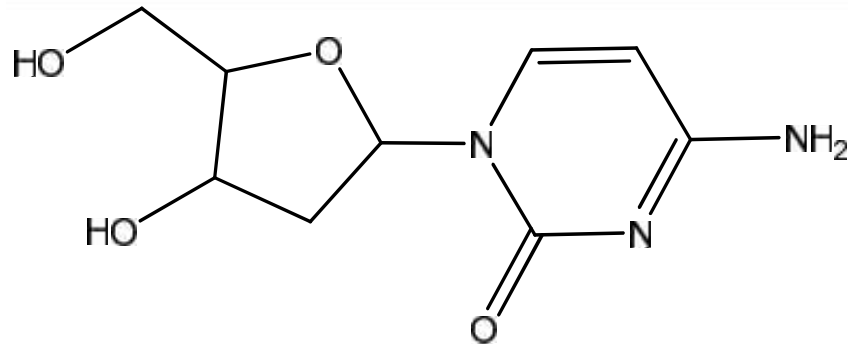


Using metabolomic methods in the Victorian Dairy industry to understand the importance of organic nitrogen: from factory to farm

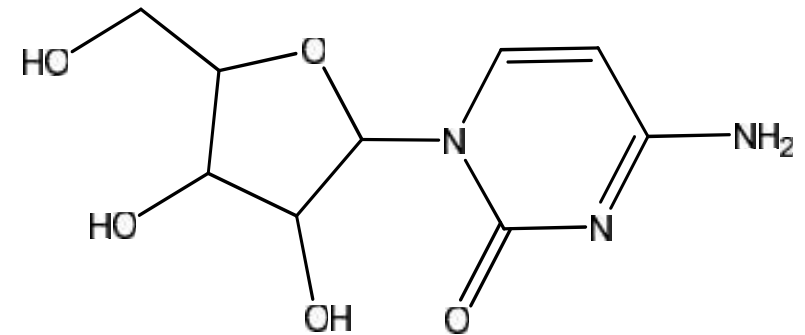
Michael W. Heaven, Sharon R. Aarons, Lori Phillips, Brunda Nijagal, Komal Kanojia, T. Vincent Verheyen, Alicia J. Reynolds, Murray Hannah, David Nash, Pauline Mele, Dedreia Tull, Amsha Nahid

- 
- **Metabolites**
Small molecular weight compounds
(up to 1000 g/mol).
 - **Synthesised or utilised by organisms during cellular metabolism.**
 - **Collected soil and water samples from farms and a dairy factory**
 - **Compared: Metabolomic
Microbial Community
Physicochemical data**

Results from Farm and Factory

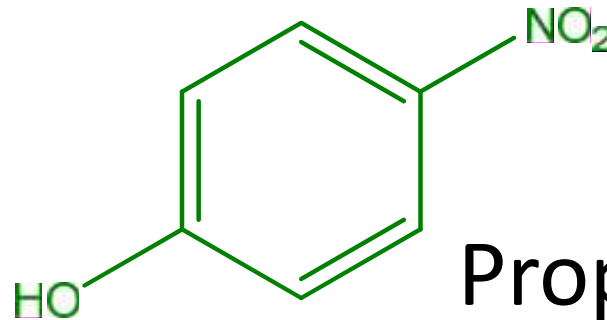


Cytidine (nucleoside)



Aspartic acid (vitamin)

4-nitrophenol
(microbial metabolite)



Proportional to **NH₃**