

Summary and Future Directions

We have established a procedure to analyse 90 alternative splicing events simultaneously from different conditions. Over a third of the AS events showed changes in AS under the different conditions tested. We are currently increasing the number of AS events studied to 384, following AS splicing events in transcription factors, RNA interacting proteins and stress response proteins. We will study changes in splicing in over-expressing and knock-out lines of various *trans*-acting factors and we have already begun to analyse the effect of CBP20 and CBP80 knockouts on splicing of these genes (with Jarmowlowski lab, AMU, Poznan, Poland). We will further investigate pathway-specific AS in well characterised genetic or biochemical pathways. This will allow us to address questions of co-ordinated regulation of AS in plants.