Mathematical modelling of metabolic energy transfer: prediction of important regulatory inputs

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Three Areas

• Can we predict the rise in obesity ?
  – by integrating observed data on nutrient intake
    • exponentially increasing obesity
    • static level of calorific intake
  – can we model (and hence explain) these apparently incompatible observations?...i.e akin to gene epistasis but for nutrients

• Development of the kidney in 3D,
  • perhaps using elements of many of the talks that day

• Modeling renal function
  • think has been done to some extent!