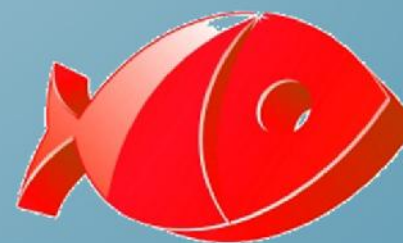
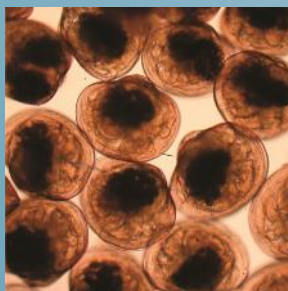
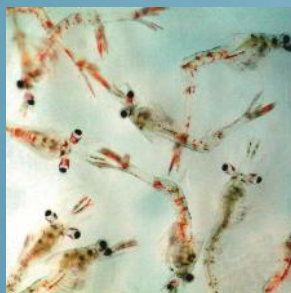
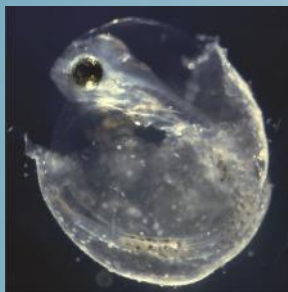


larvi 2013

6th fish & shellfish larviculture symposium

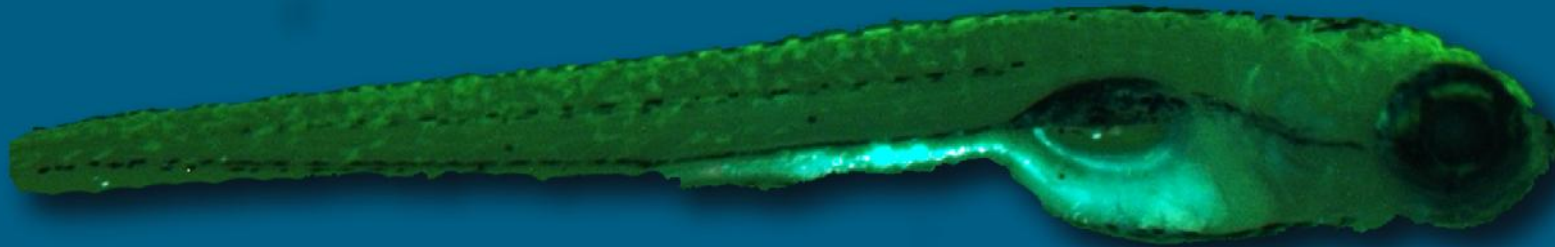
Lipid digestion in first feeding larvae -
visualization in vivo

Øystein Saele



ghent university, belgium, 2-5 september 2013

Lipid digestion in first feeding larvae, an in vivo study

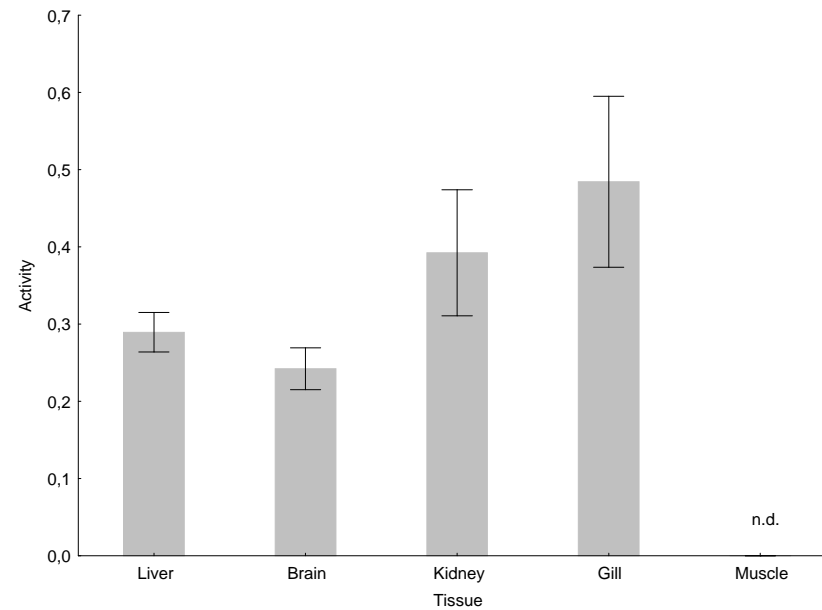


Øystein Sæle, Kari Elin Rød & Steven Farber

How to study lipid digestion in a 4 mm fish larvae?

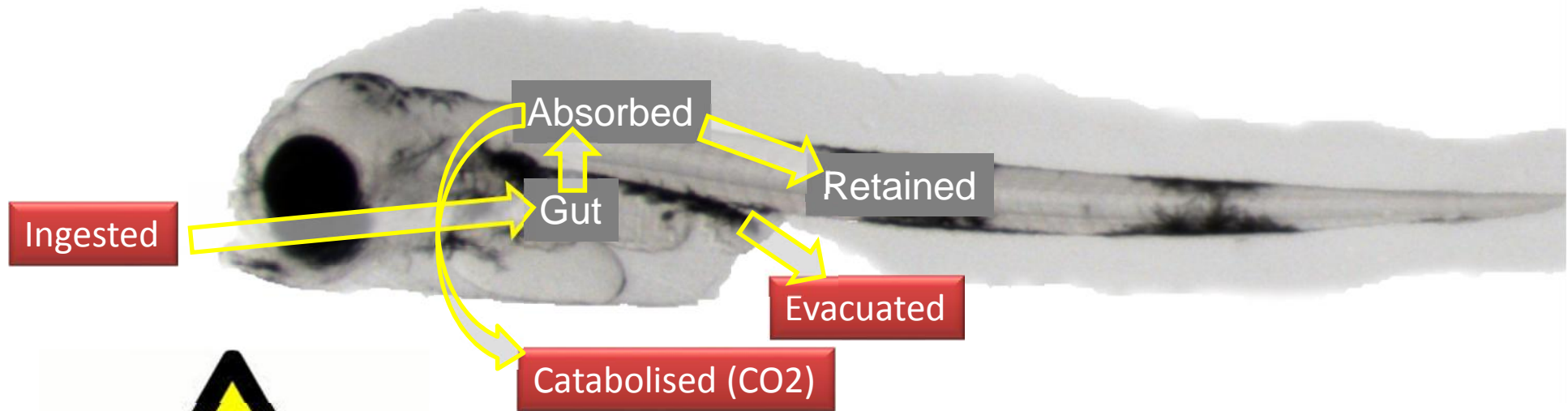
Homogenate of whole animal

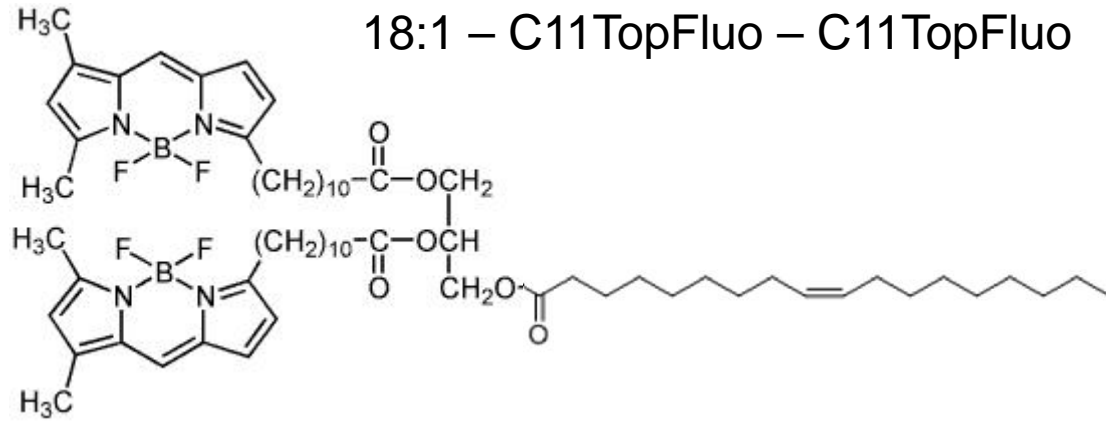
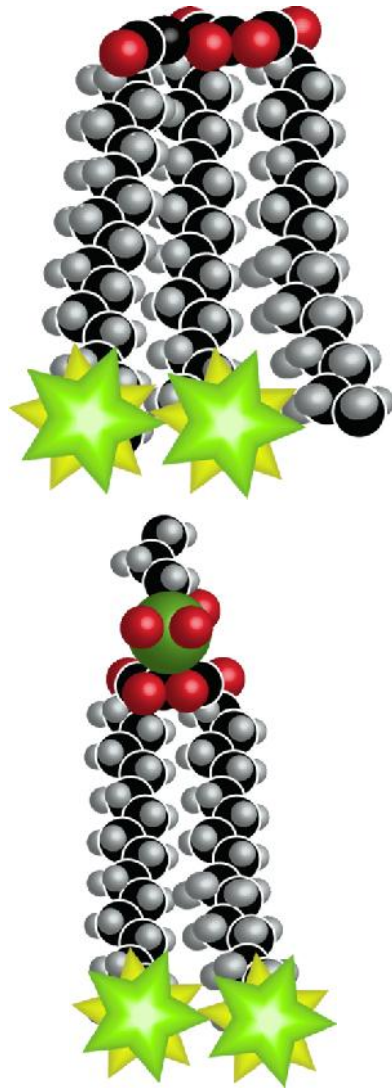
- Enzyme activity
- Protein (western blot/ELISA)
- Gene expression (qPCR)

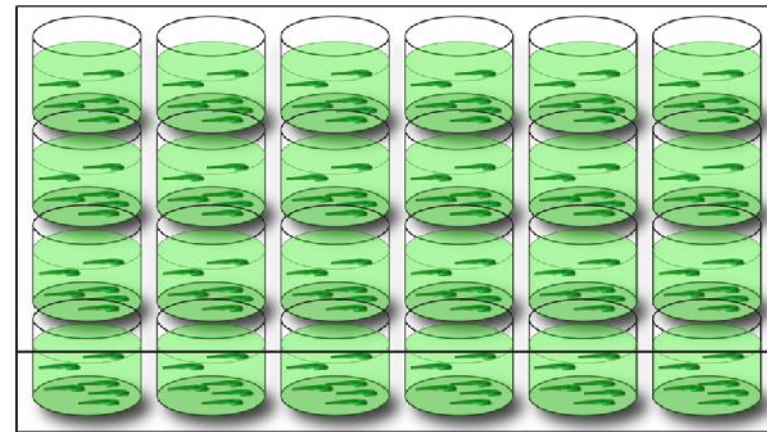
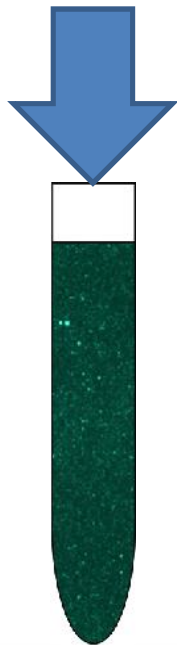
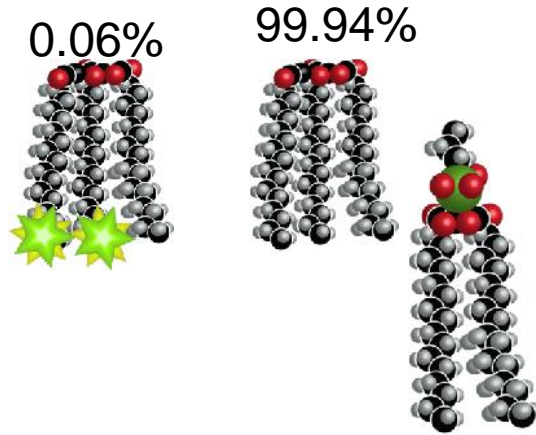


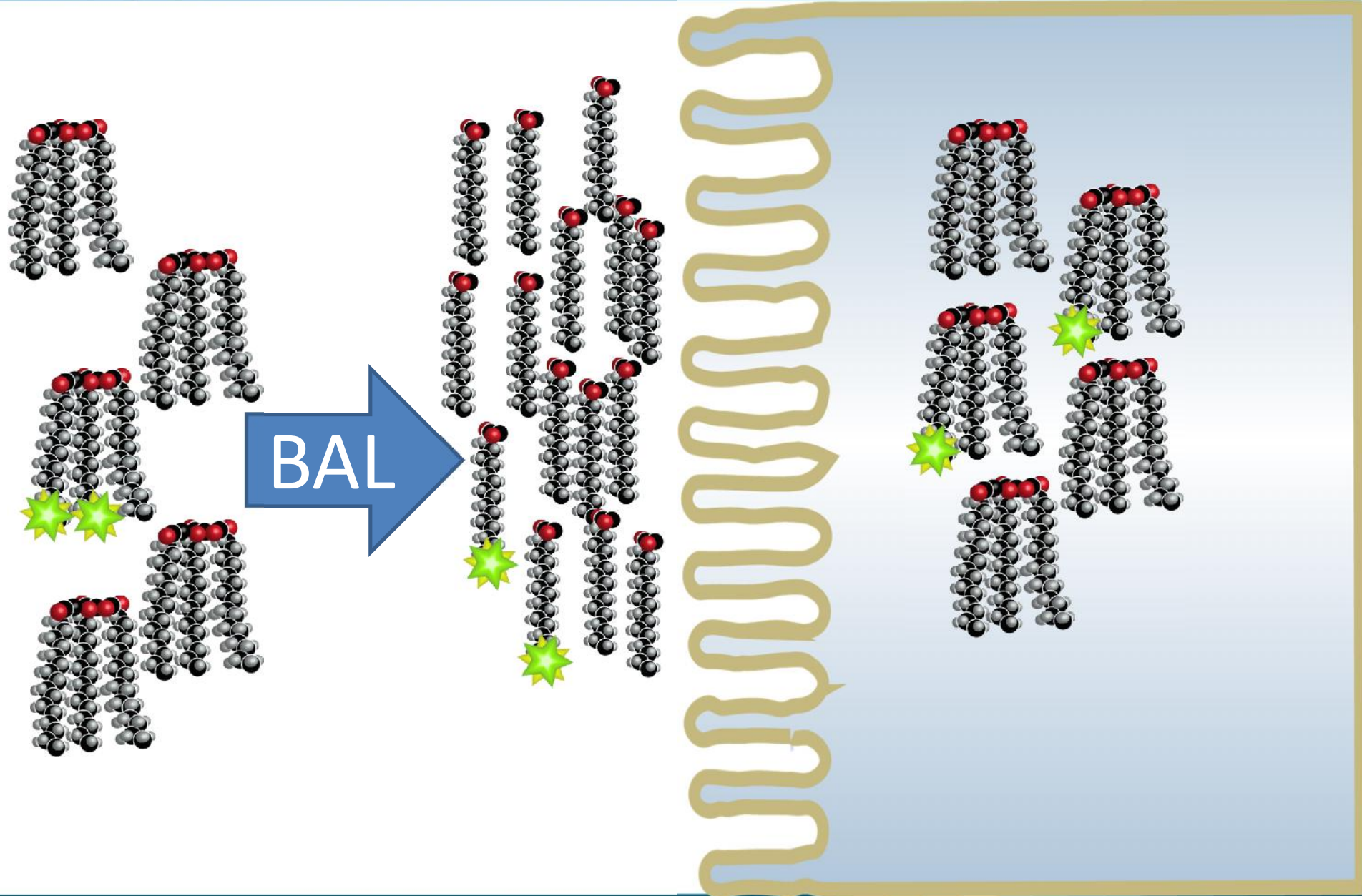
Sæle et al., 2011

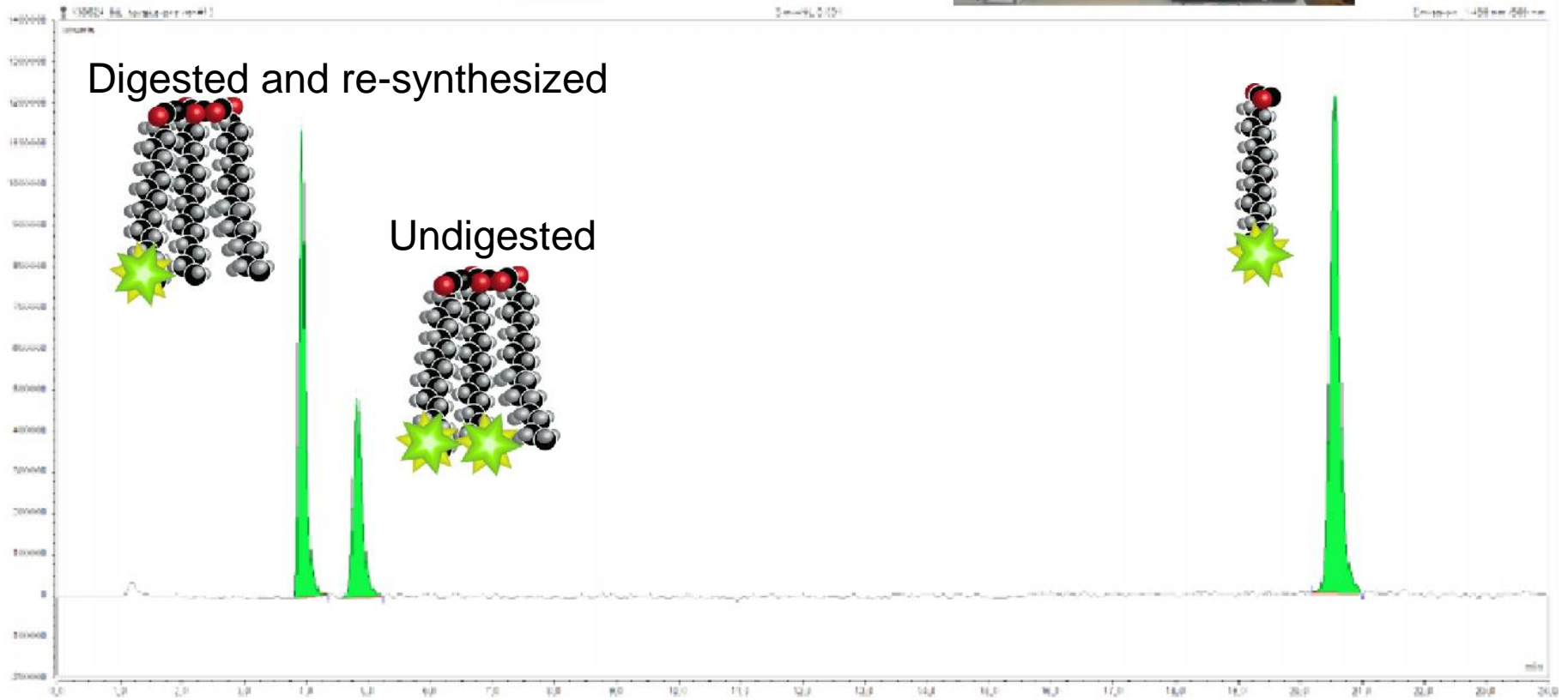
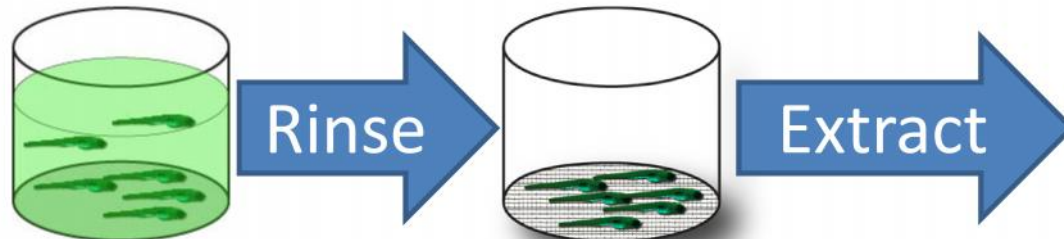
4.5 mm SL

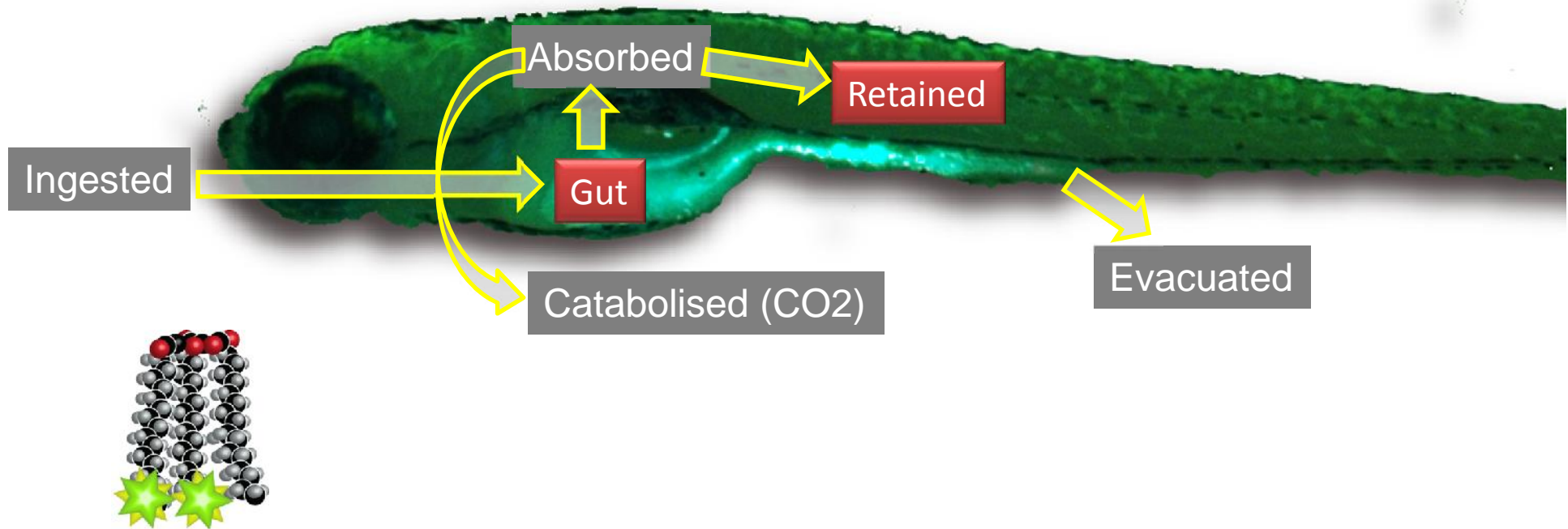


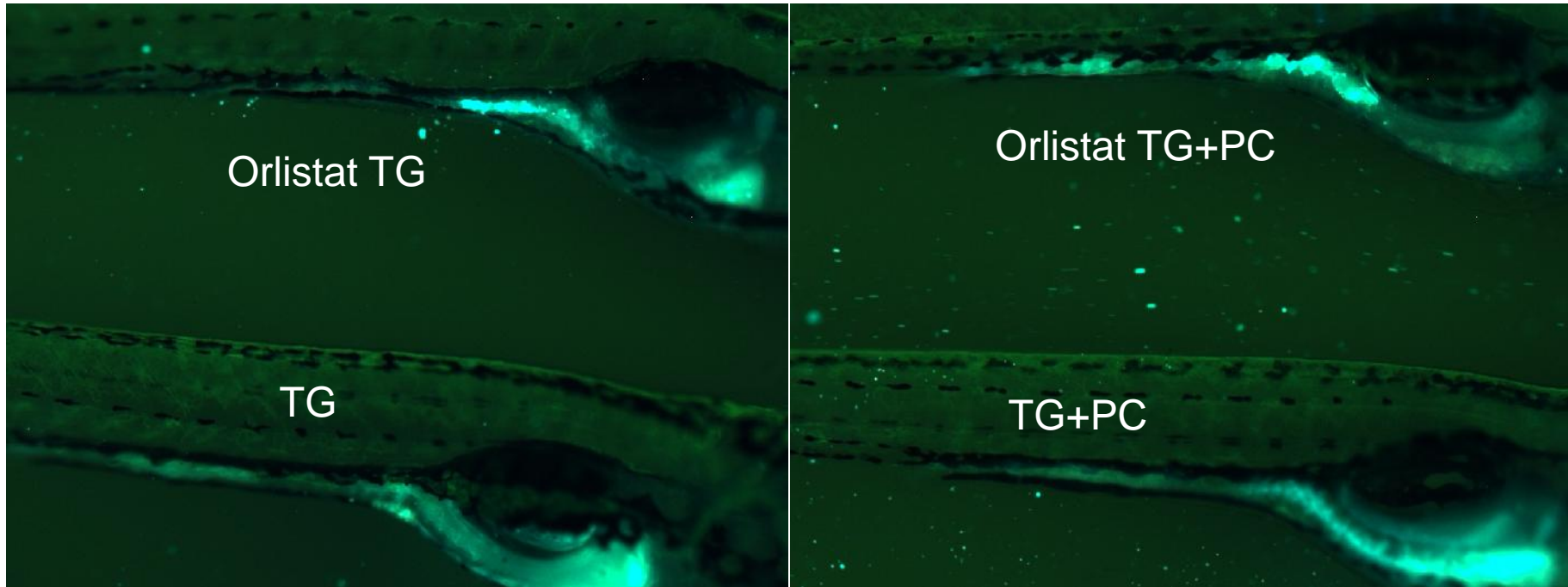


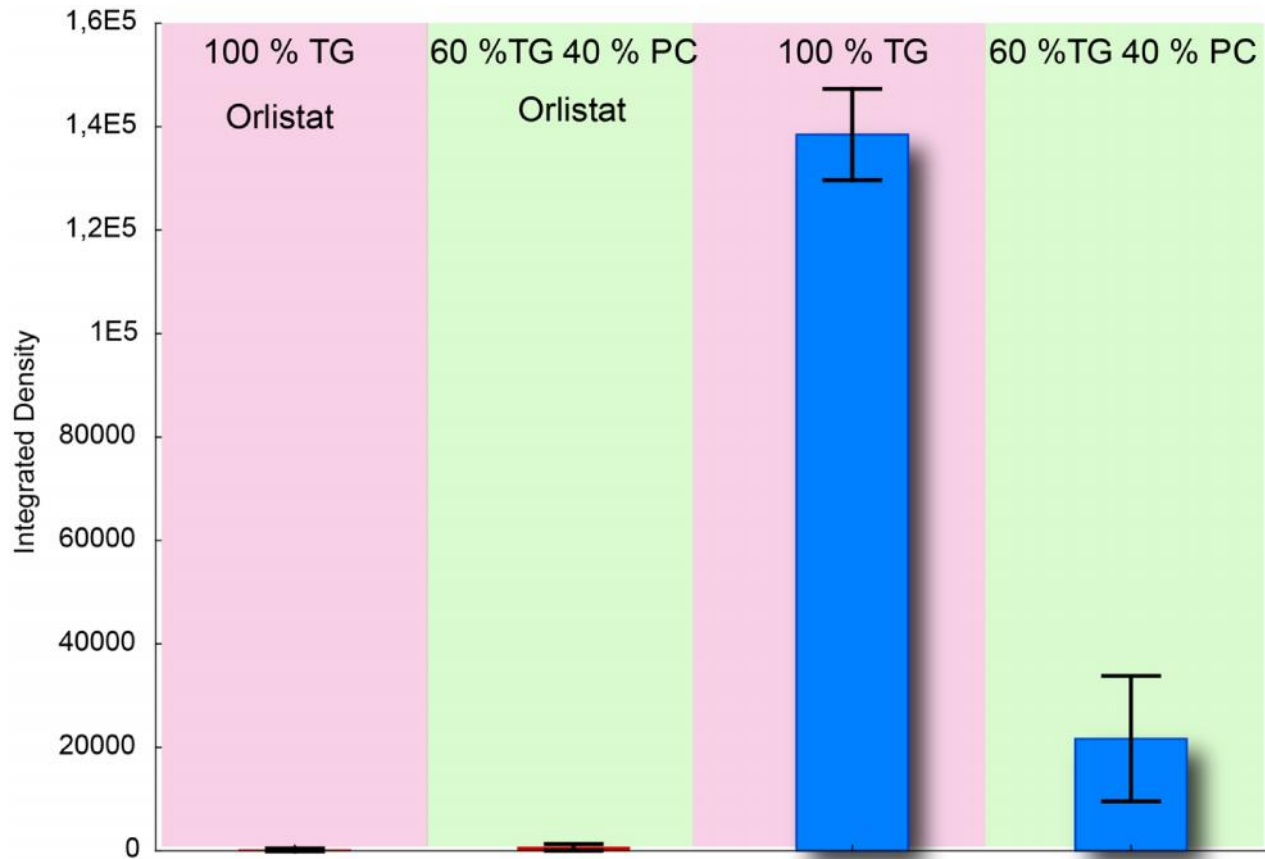
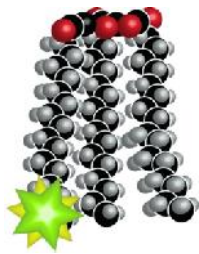


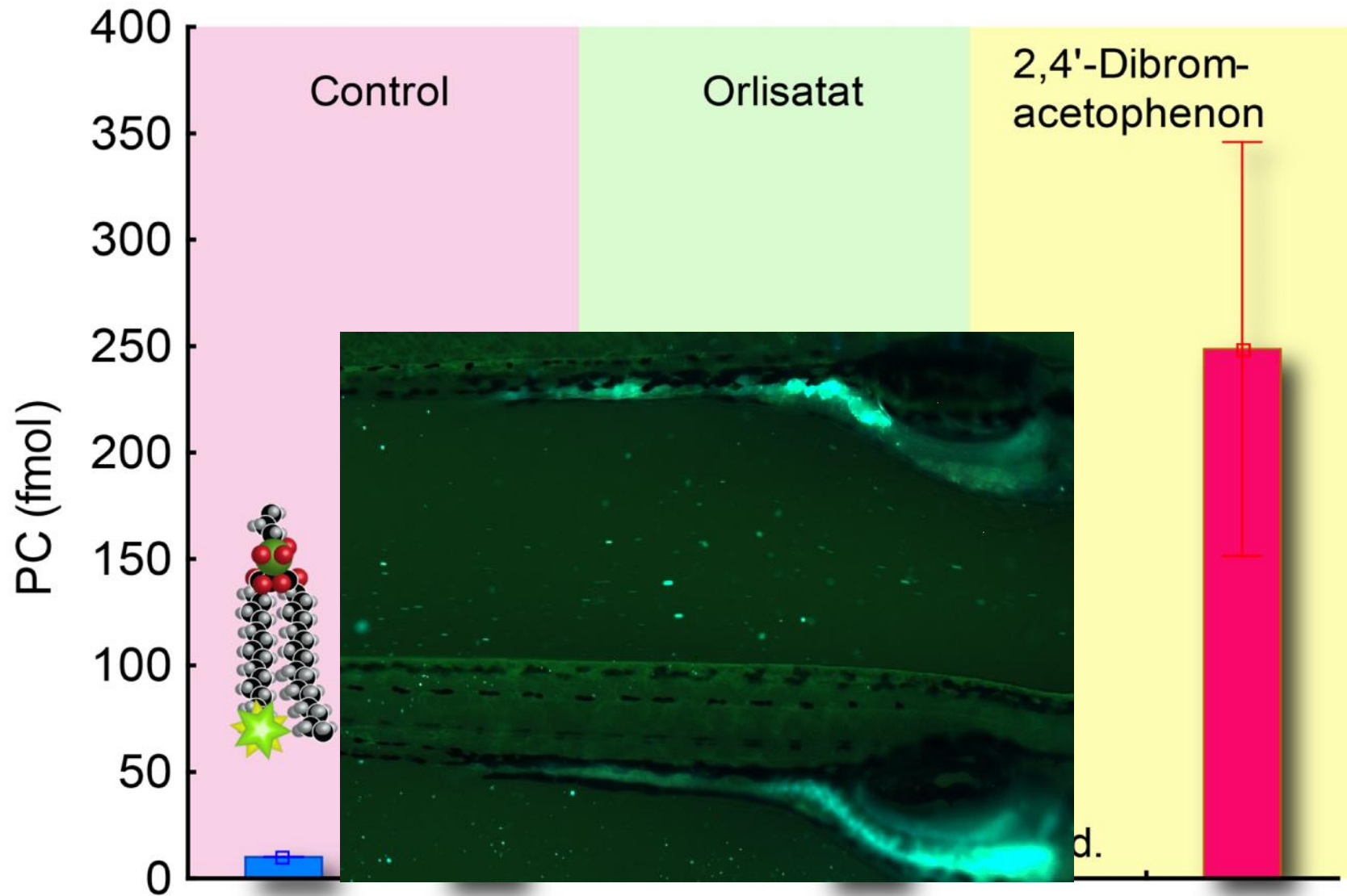


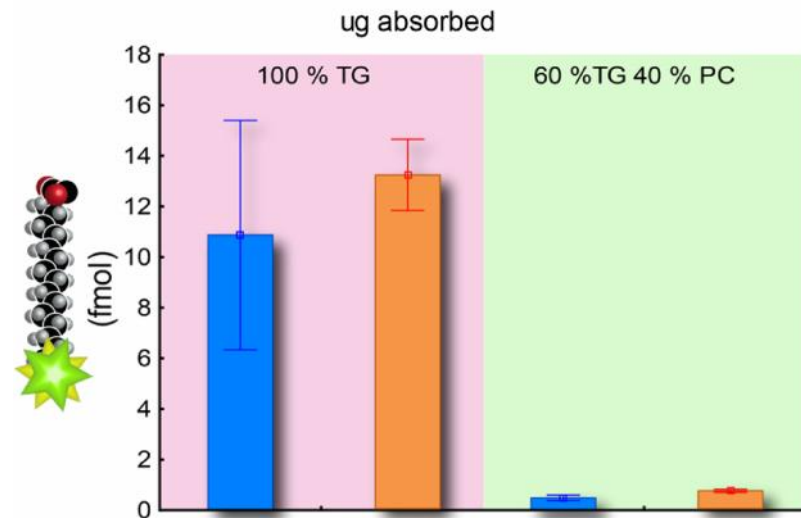
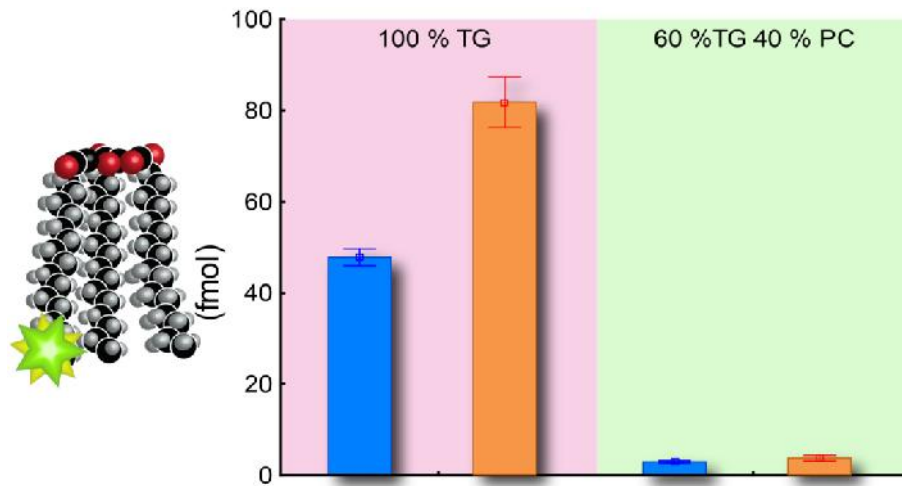
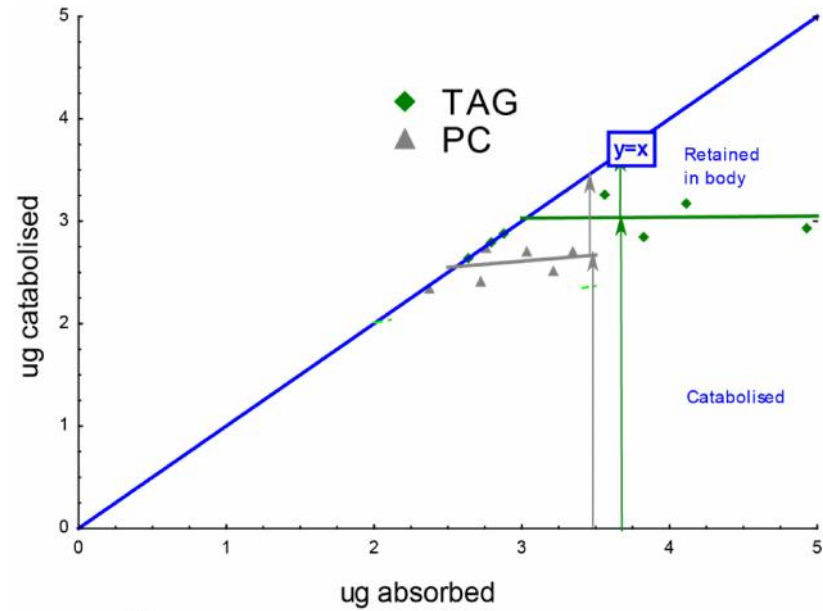
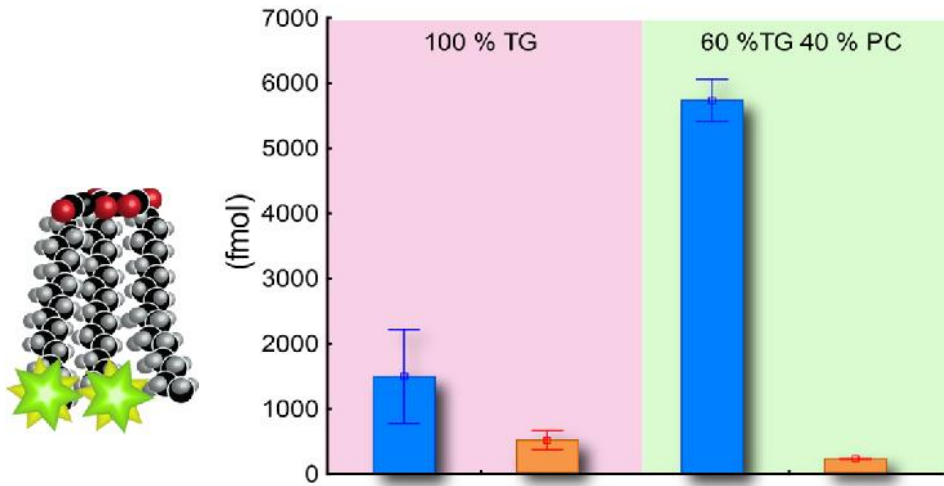


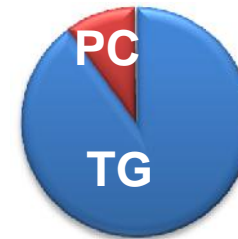
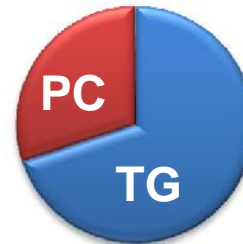
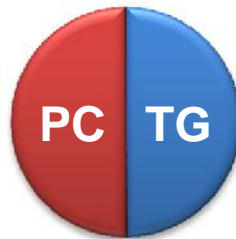
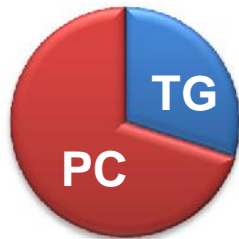
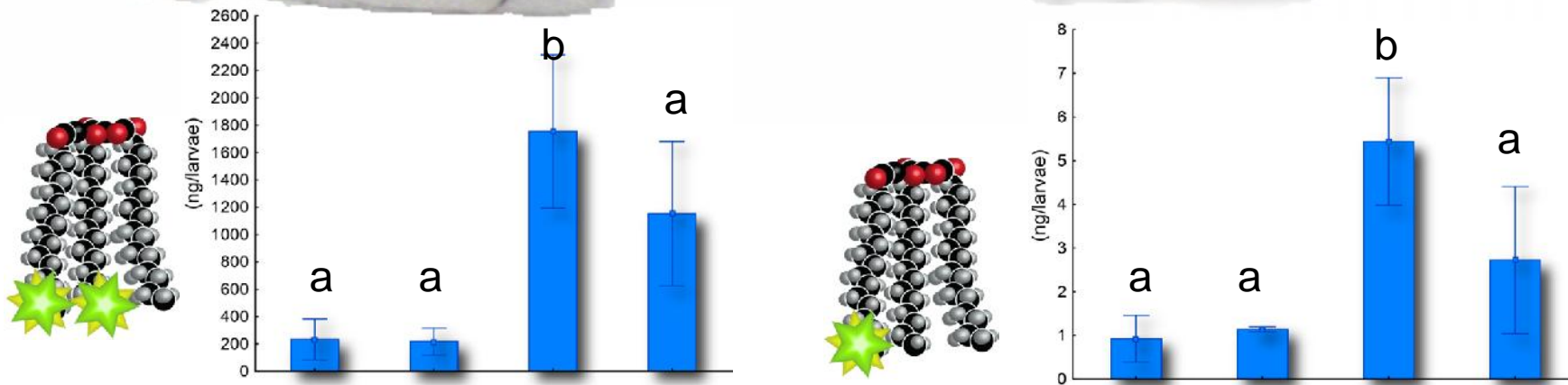


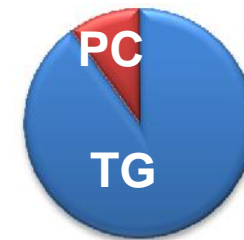
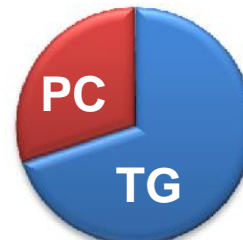
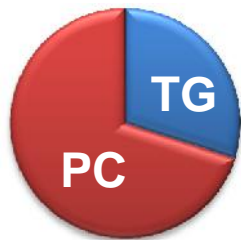
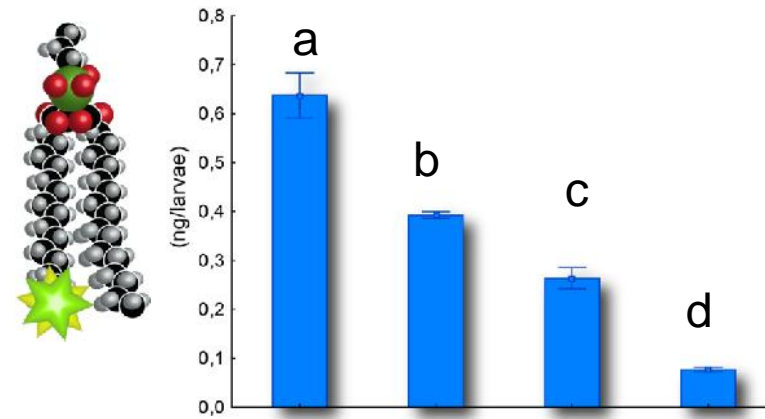
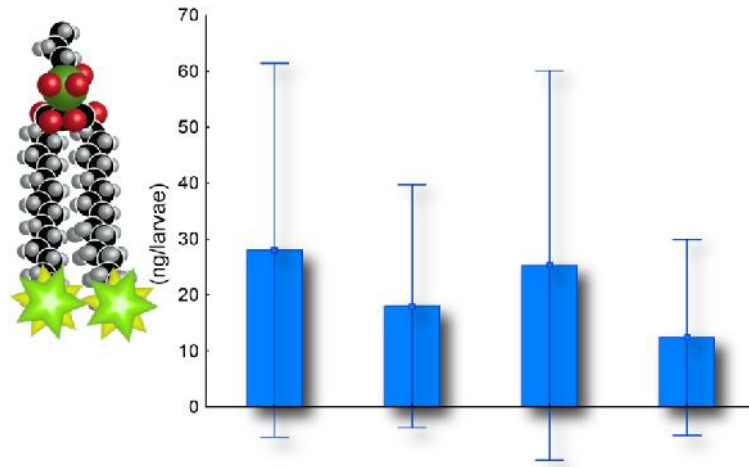


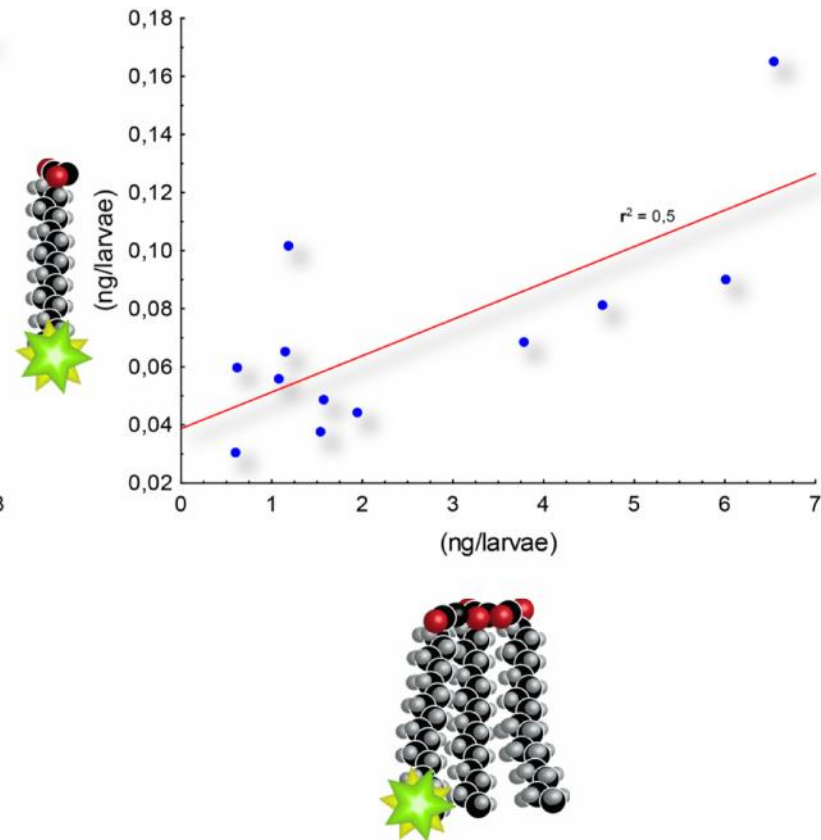
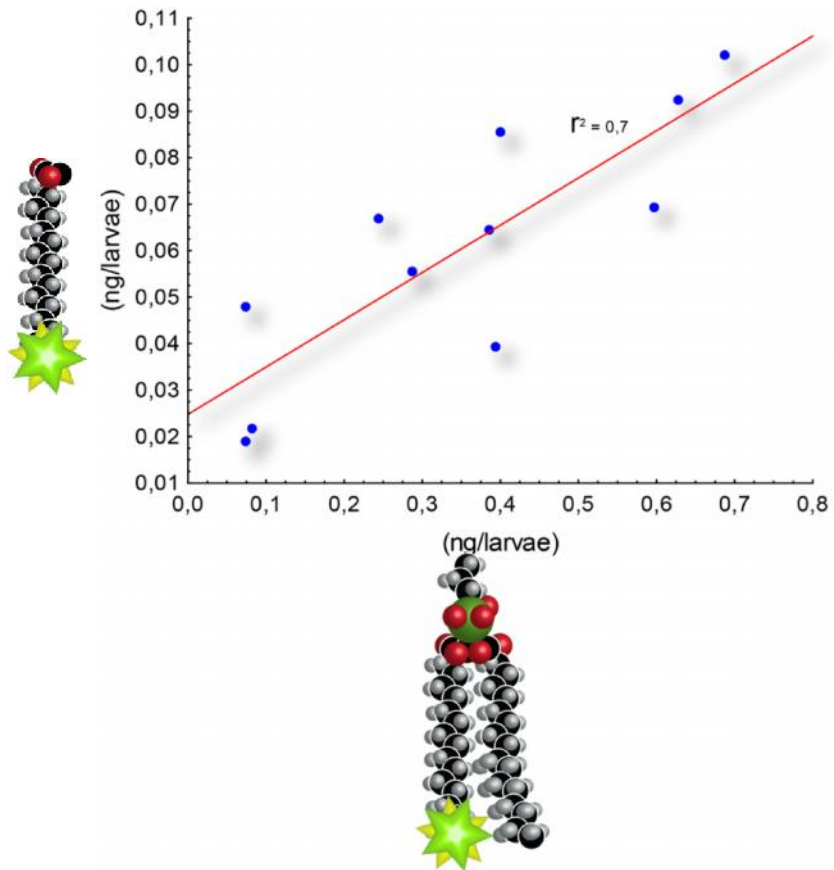












- ✓ Chemicals that affect lipid digestion
- ✓ Genes that affect lipid digestion
- ✓ How nutrient composition affect lipid metabolism

Thank you

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We would like to thank Avanti Polar Lipids, Inc (USA) for donating the TopFluor lipids

