

Building a National Nutrition & Genetics Database

*Latest findings on the link between
Diet Genes Health and Ageing*

Dr. Miriam Ryan – UCD Institute of Food & Health



2007 – 2013: 4th Symposium



National Nutritional Phenotype Database



Department of
**Agriculture,
Food and the Marine**



Department for
**Employment
and Learning**
www.delni.gov.uk

Food & Health Research Initiative

Irish Universities Nutrition Alliance

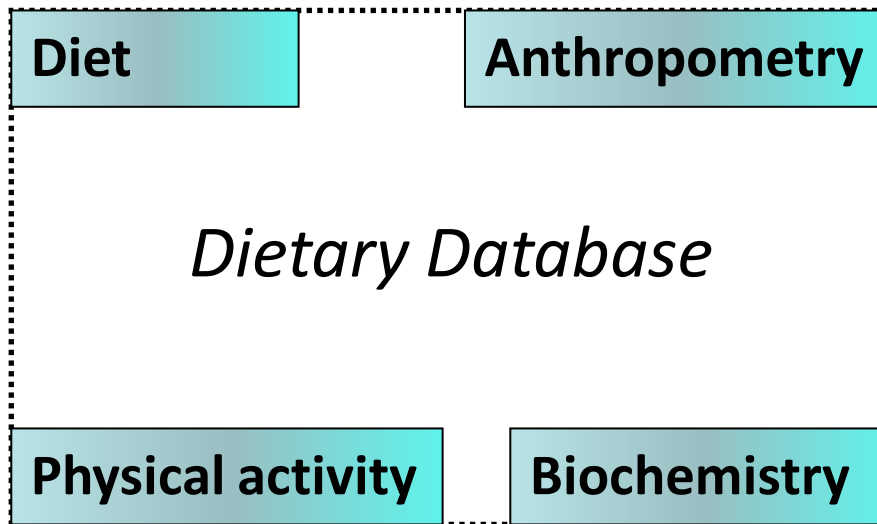
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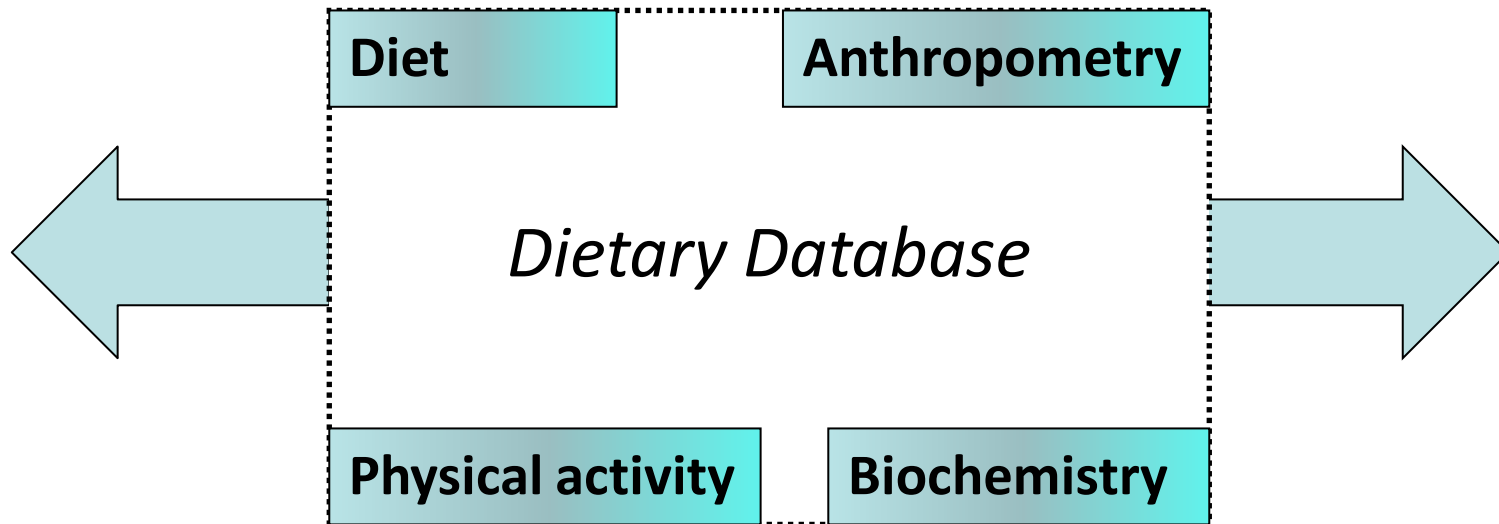
Joint Irish Nutrigenomics Organisation (JINGO)



Concept of a Nutritional Phenotype Database



Concept of a Nutritional Phenotype Database



Concept of a Nutritional Phenotype Database



Genomics

Diet

Anthropometry

Imaging

Metabolomics

Nutritional Phenotype Database

Transcriptomics

Proteomics

Physical activity

Biochemistry

Function





National Nutrition Phenotype Database



€5m

1,500

National Adult Nutrition Survey



€5m

214

Metabolically challenged cohort



5,200

Elderly cohort



+ €1.8m





Today's Programme



Chairperson: Prof. Sean Strain

9.30 - 10.00am **Trends in food and nutrient intakes in Ireland**
Dr. Janette Walton

10.00 - 10.30am **Current fatty acid intakes: The health implications**
Dr. Anne Nugent


10.30 - 11.00am **Iodine in the Irish population: Is there a cause for concern?**
Dr. Breige McNulty

11.00 - 11.30am **Tea/Coffee – Poster exhibition**



Today's Programme



11.30 - 12.00pm	What metabolite analysis can tell us about our health <i>Dr. Lorraine Brennan</i>	
12.00 - 12.30pm	Do fats fuel a fire? <i>Prof. Helen Roche</i>	
12.30 - 1.00pm	Riboflavin and blood pressure: Findings and lessons learned from the National TUDA elderly study <i>Prof. Helene McNulty</i>	
1.00 - 2.00pm	Hot Buffet Lunch – Poster exhibition	



Today's Programme



• *Chairperson: Prof. Albert Flynn*

• **2.00 - 2.30pm** **Vitamin D, Mood and the Mind**

Dr. Conal Cunningham

• **2.30 - 3.00pm**

Eating your way to Better Bones - more than just Vitamin D

Dr. Miriam Casey

• **3.00 - 3.30pm**

**Low vitamin B12 status in our elderly citizens:
Trying to see the wood through the trees**

Prof. Anne Molloy

3.30pm

Where to now: Building global collaborations

Prof. Mike Gibney



Open discussion





UCD MAIN MENU

Joint Irish Nutrigenomics

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- Consortium
- Research Programmes

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Welcome to the Joint Irish Nutrigenomics Organisation

Introducing JINGO

The Joint Irish Nutrigenomics Organisation (JINGO) incorporates four universities working together to create a National Nutritional Phenotype Database. The project is funded by the Irish Department of Agriculture's Food Institutional Research Measure. The database which has been built from 2007 - 2013 extends and deepens traditional dietary survey databases by combining dietary, physical activity, body measurement and lifestyle data with nutrigenomics technology data.

The JINGO Database combines information from 3 Projects:

[National Adult Nutrition Survey \(NANS\)](#)

Led by University College Cork (1,500 adults 18+ yrs)

[Trinity-Ulster Department of Agriculture Project \(TUDA\)](#)

Trinity College Dublin and University of Ulster (5,200 adults 60+ yrs)

[Metabolic challenge study \(MECHE\)](#)

Led by University College Dublin (214 adults 18 - 60 yrs)



JINGO Home Page

Quick Links

Tweets



NutrigenomicsEU
@nutrigenomicsEU

29m

#VitaminD, #mood & the #mind. Dr. Cunningham -St. James's Hospital to explain -15th Nov bit.ly/18Ep8Pr #jingoEU #depression #elderly



NutrigenomicsEU 2h
@nutrigenomicsEU

Due to demand we have now added 10 places to



facebook.com/jingoproject



The Joint Irish Nutrigenomics Organisation

694 likes

Congratulations to Mary Ward from the University of Coleraine on her recent professorship promotion! Prof. Ward is a lead researcher on the JINGO project



FEW PLACES REMAINING Will you be joining us in Dublin on the 15th of November?

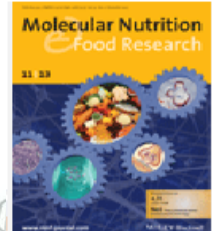
4th Symposium of the Joint Irish Nutrigenomics Organisation
Dublin - Friday 15th November 2013

ABOUT THE PROJECT	PROGRAMME
The Joint Irish Nutrigenomics Organisation (JINGO) Project is a collaborative research effort between 4 Universities (UCD, UCC, TCD and UU) assessing over 7,000 adults of all ages, healthy and those exhibiting early signs of osteoporosis, heart disease & dementia	8.30 am Registration
This extensive and unique project, encompasses 3 studies, combining traditional public health nutrition data with information collected using advanced tools of Molecular biology, to address many questions within this cutting-edge area of personalised nutrition	8.15 am Welcome Dr. Brian Flynn
WHERE PUBLIC HEALTH MEETS INNOVATION	9.30 am Trends in food and nutrition Dr. Jeanine Collins
	10.00 am Current fatty acid levels Dr. Marie Perle
	10.30 am Iodine in the Irish population Dr. Marie Perle
	11.30 am Tea/Coffee - Prostate cancer Dr. Caroline Brennan
	12.00 pm Do fats fuel a fire? Dr. Caroline Brennan
	12.30 pm Professor Neil Scriver: Riboflavin and blood pressure Findings from the National Heart and Lung Institute Prof. Neil Scriver
	2.00 pm Vitamin D, Mood and Health Dr. Geraldine FitzGerald
	2.30 pm Eating your way to better health Dr. Marie Perle
	3.00 pm Low vitamin B12 status Dr. Marie Perle

Another PhD graduate from the JINGO Project! Newly conferred Dr Colm O'Grada is shown here with Professor Helen Roche, one of the lead JINGO team members. Congrats Colm!



Another publication coming of the JINGO project - Congrats Dr. Colm O'Grada! <http://bit.ly/17K38K2>



The Joint Irish Nutrigenomics Organisation 9 November



"Chocolate Lowers Body Fat" A winning headline result from the Pan European HELENA (teenagers) study! <http://bit.ly/17K38K2>

HELENA have announced a €1.5 million programme to investigate the costs & benefits of personalised healthcare interventions <http://bit.ly/1a6UUY0>



<https://twitter.com/nutrigenomicsEU>

Reporting the latest in Nutrition & Genetics research



NutrigenomicsEU

@nutrigenomicsEU

Reporting on results from the Joint Irish Nutrigenomics Organisation (JINGO) Nutrigenomics Project & More

#jingoEU · ucd.ie/jingo

#jingoEU

Tweets



NutrigenomicsEU @nutrigenomicsEU

2h

#VitaminD, #mood & the #mind. Dr. Cunningham -St. James's Hospital to explain -15th Nov bit.ly/18Ep8Pr #jingoEU #depression #elderly

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NutrigenomicsEU @nutrigenomicsEU

3h

Due to demand we have now added 40 places to Evidente EDEC



For Project Queries:
miriam.ryan@ucd.ie