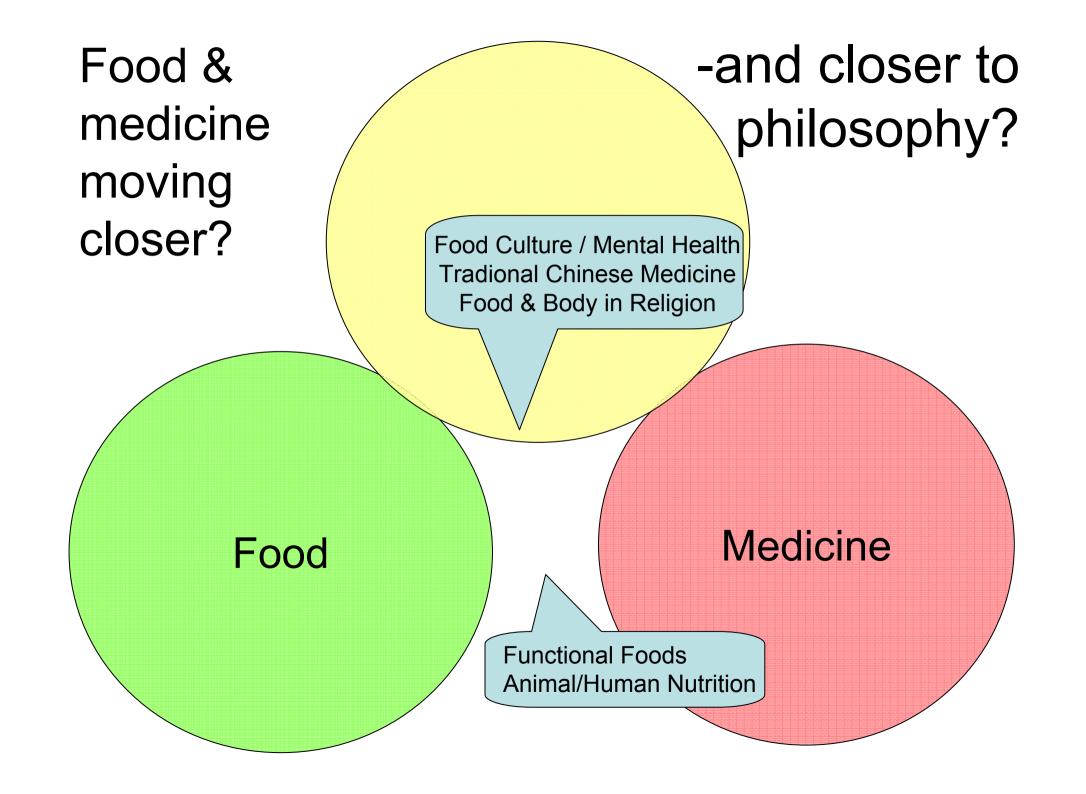




Food, Medicine and Philosophy in East and West - a PhD course

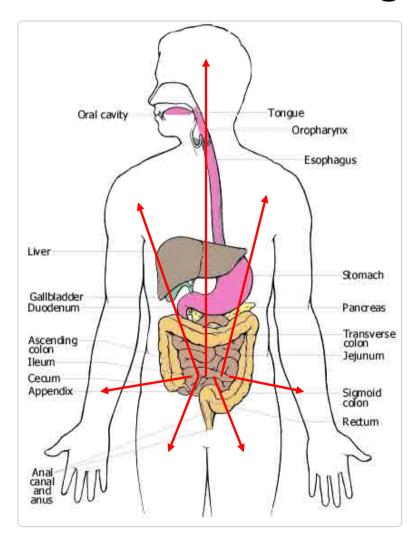
What determines what we eat? Science, culture or religion? How do people view the human body in health and disease? As a chemical machine or a spiritual, holistic entity? Widely different diet and health traditions are coming closer in the globalized world. The distinction between food and medicine is unclear, and both relates to culture, philosophy and religion. Dietary habits and human health may be determined by more than product availability, technology and natural science. Food and medicine differ between East and West in a mixture of natural, social and human sciences. - Learn research methods by looking across disciplines, from East to West!



Nutrition: Man's most intimate contact with surrounding nature

 O_2





Food = experience?

(- Not only fuel for chemical machine, advertisement in a Danish Newspaper Nov. 2007)

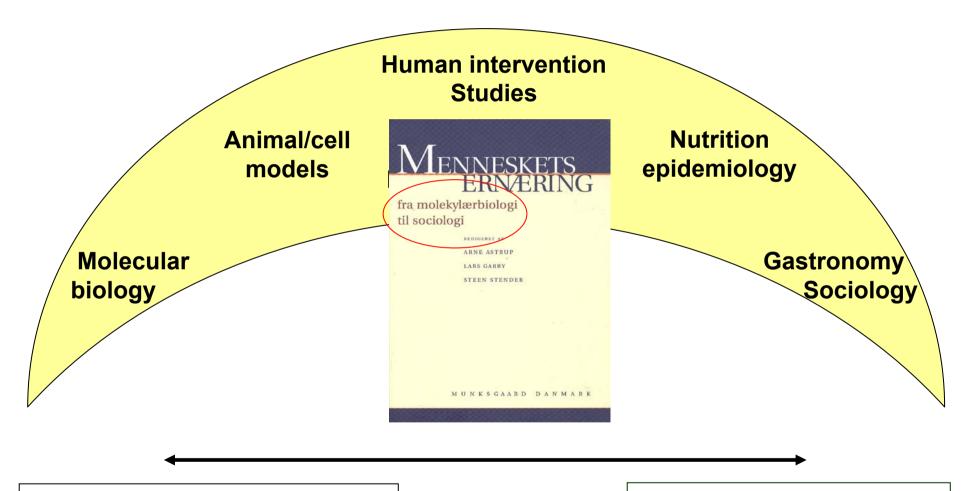
Afternoon tea.

Food and meals are becoming part of the "experientel living" Tea is a good example of food that has a role beyond nutrition



Adventure om dagen. Luksus resten af døgnet. Bestil din rejse på topas.dk

Human Food and Nutrition: Natural, social and human science



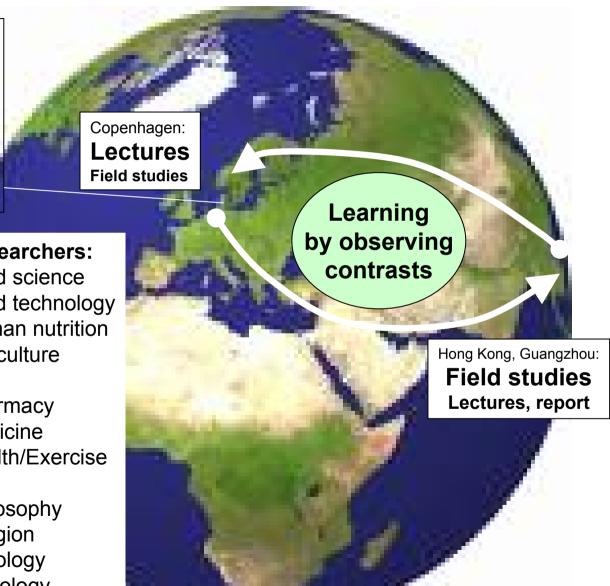
Natural science Structure, mechanism cause-effect → "reductionistic" Social & human science Functional effect, statistic, intuitive → "holistic"

"Food, Medicine and Philosophy in East and West"

3-week international Scandinavian-Chinese PhD course:

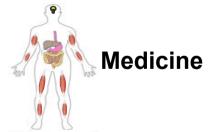
Improved understanding of:

- Diet choices in East & West
- Globalization of diet & health
- Basic science epistemiology in food and medicine fields
- Science synergy & creativity
- East-West cultural diversity





Food





Researchers:

Food science Food technology Human nutrition Agriculture

Pharmacy Medicine Health/Exercise

Philosophy Religion Theology Sociology

Lecture overview

- Presentation of coordinators, lecturers
- Presentation of participants
- Presentation of course program
- Course report
- Introduction to course theme:
 - Food, Medicine & Philosophy

Name:	Affiliation:	Email:	EC TS:
Charlotte Andersen	Dept. Vet. Pathobiology, Uni. Copenhagen.	chara@life.ku.dk	6
Shuyu Wu	Unit Antimicrobial Resistance, DTU.	wshuy@food.dtu.dk	6
Janice Marie Sorensen	Dept. Human Nutrition, Uni. Copenhagen	janice@life.ku.dk	6
Yan Li	Dept. Nutrition, School of Public Health, Sun Yat- Sen University	liyanwb@163.com	6
Faiza Saeed	MAPP centre, Uni. Aarhus	faizas@asb.dk	6
Mette Holse	Dept. Food Science, Uni. Copenhagen	mhol@life.ku.dk	6
Morten Arendt Rasmussen	Dept. Food Science, Uni. Copenhagen	mortenr@life.ku.dk	6
Marloes Anna Adriana Schepens	NIZO	Marloes.Schepens@ni zo.nl	6
Yu Qin	Dept. Nutrition, School of Public Health, Sun Yat- Sen University	Yuer_forever@hotmail .com	6
Zhang Zhe	Philosophy department of Sun Yat-Sen University	hanszz@163.com	6
Andreas Vegge	Section of Biomedicine, Uni. Copenhagen	avegge@gmail.com	6
Tsoi Fong Kong, Vincent	School of Biology, University of Hong Kong	fongkongtsoi@yahoo. com.hk	4
Lana Tankosa Nikolic	Faculty of Theology, Uni. Copenhagen	tankosa@gmail.com	4
Hanna Schösler	Instituut voor Milieuvraagstukken, Free University	Hanna.schosler@ivm. vu.nl	6

Is the course relevant for Western conditions?

One PhD student after the 2007 course (adapted):

"I was struck by the fact that the conflict between TCM (Traditional Chinese Medicine) and our Western natural science is similar to the conflicts between a restaurant chef and me as a food scientist.

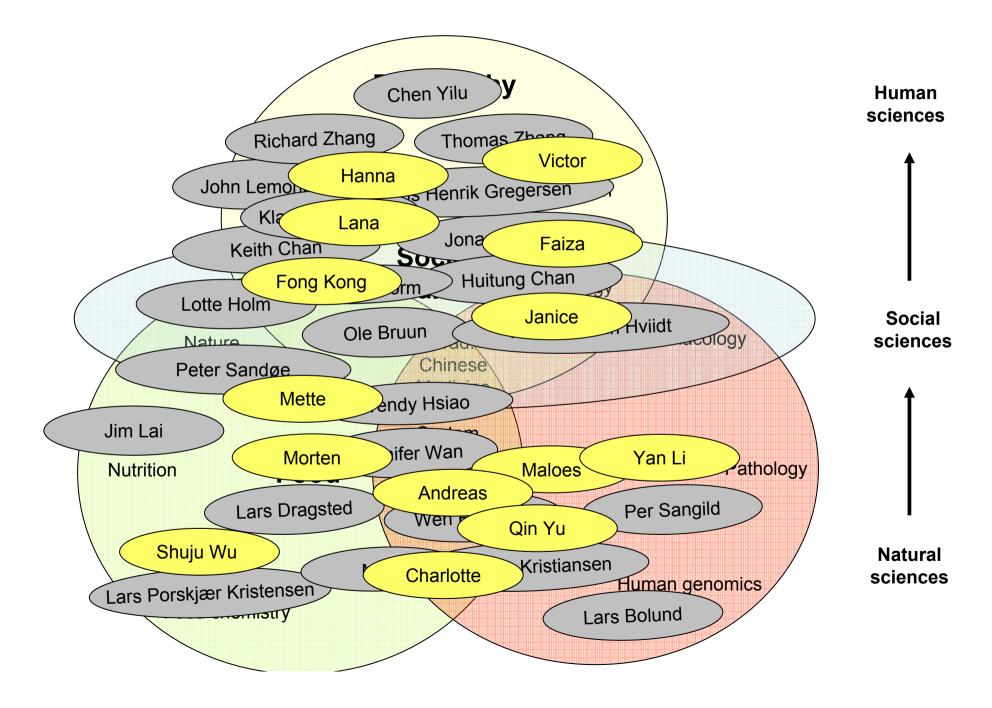
The chef works by experience and historical knowledge, is concerned about <u>results</u> - not <u>mechanisms</u>. I work systematically by molecular gastronomy to obtain better taste. However, it will take forever to prove everything. The encounter between the food scientist and the chef is a culture chock – just like the meeting between a TCM doctor and a Western scientist. In molecular gastronomy and natural sceince, we should relate to "knowledge" of the chef, challenge and interact with this "knowledge".

Course lecturers in Hong Kong or Copenhagen (alphabetical, topics indicated):

- Bolund, Lars (LB), Prof., dr.med. genetics, Univ. Aarhus and Beijing Genome Institute at Shenzhen, ("wellness genes" and mechanisms of biological maintenenance), bolund@humgen.au.dk.
- Bruun, Ole (OB), Ass. Prof., PhD etnology, Roskilde University Centre (RUC), (cultural and religious trends in China related to food and nature, Chinese Fengshui), obruun@ruc.dk
- Chan, Hiutung (HC), PhD theology, Bridge & Dialoque, Tao Fong Shan Christian Crt., Hong Kong, (Taoist/Buddhist/Christian philosophies regarding food, nutrition, health), hiutung@tfscc.org
- Chan, K.F. Keith (KC), Research Fellow, PhD Philosophy, Institute of Sino-Christian Studies (Nature philosophy in Chinese religions and Christianity), keith@iscs.org.hk
- Chen, Yilu (CY), President, PhD Theology, Guangdong Union Theological Seminary (Nature and food in Chinese and Christian belief traditions), elupastor@sina.com.cn
- Christensen, Lars Porskjær (LPC), Prof., PhD, Dept. Chemistry/Biotechn., Univ. Southern Denmark, (Traditional Chinese Medicine and Medicated Diests in the West), lpc@kbm.sdu.dk
- Dragsted, Lars (LD), Professor, PhD, nutrigenomics and biomedicine, Dept. Human Nutrition, Univ. Copenhagen (functional foods and body health), ldra@life.ku.dk.
- Gregersen, Niels Henrik (NHG), Prof., PhD theology, University of Copenhagen, (synergies and conflicts between natural science and religion/theology), nhg@teol.ku.dk
- Holm, Lotte (LH), Prof., PhD nutrition sociology, Dept. Human Nutrition, Univ. Copenhagen, (nutritional sociology and culture, choice paradigms, sociology of obesity), loho@life.ku.dk
- Hsiao, W.-L. Wendy (HW), Ass. Dean, Prof., School of Chinese Medicine, Hong Kong Baptist University (Traditional Chinese Medicine in Hong Kong), bowhsiao@hkbu.edu.hk
- Hviidt, Niels Christian (NCH), Ass. Prof., PhD theology, Univ. Southern Denmark, (miracles, faith, theology, meal and medicine in East and West), nchvidt@health.sdu.dk
- Jørgensen, Jonas (JJ), Assistant Professor, PhD theology, Univ. Copenhagen, (nature and religion in Asian syncretistic tradition), jaj@teol.ku.dk
- Kristiansen, Karsten (KK), Professor, DSc, molecular biology, Univ. Southwestern Denmark/Beijing Genome Institute, (molecular basis of food bioactive effects), kak@bmb.sdu.dk.

- Lai, Jim (JL), Pilgrims Hall Administrator at Tao Fong Shan Service Unit (local food traditions in Hong Kong, the role of food in retreat), jimlai@tfssu.org.
- Lemon, John (JLE), PhD divinity, Bridge & Dialogue Division, Tao Fong Shan Christian Centre, Hong Kong (dialoque between religions), lemond@tfscc.org
- Li, Shen (SL), Cand.scient., Chinese restaurant manager, Fredensborg, Denmark, (Chinese cooking traditions in East and West), lishen2@hotmail.com
- Ma Jing (MJ), MD, MPH, Prof. Nutrition, Sun Yat-sen Univ., Guangzhou (GZ), (Food culture in China), majing@mail.sysu.edu.cn
- Nielsen, Klaus Bo (KBN), Academic worker, Dept. Religious Studies, Univ. Aarhus. (Classical Chinese philosophy and nature view), kbn@teo.au.dk
- Rasmussen, Lars Holm (LHR), PhD, Scientific secretary, Centre for Advanced Food Studies (course coordination), lhr@life.ku.dk
- Sandøe, Peter (PS), Professor, PhD Ethics/Philosophy, University of Copenhagen, (history and philosophy of Western natural science and its associated ethics), pes@life.ku.dk
- Sangild, Per T (PTS), Professor, DSc nutrition, Univ. Copenhagen, (East-West understanding and dialogue in nutrition, health and religion fields), psa@life.ku.dk
- Wan, Jennifer M (JW), Ass. Professor, PhD nutrition, University of Hong Kong, (Western nutrition & medicine, Chinese traditional medicine), jmfwan@hkusua.hku.hk
- Wen, Hua Ling (WHL), Dean, Prof., PhD nutrition, Sun Yat-sen Univ., Guangzhou (GZ), (trends in the functional food-medicine area in China), lingwh@mail.sysu.edu.cn
- Worm, Verner (VW), Prof. of Chinese Business & Development, Asia Research Center, CBS, DK (trends in Chinese business understanding and philosophy), vw.int@cbs.dk
- Zhang, Richard X.Y. (RZ), Ass. Director, Department of Philosophy, Sun Yat-sen University, Guangzhou (philosophy in modern China, Christianity), xyz504a@yahoo.com.cn
- Zhang, Thomas (TW), Ass. Prof., PhD Philosophy, Sun Yat-sen University, Guangzhou, (philosophies in modern China relations to food and health?), zhangxianzsu@163.com

Food, medicine and philosophy – some main study fields:



Lecture overview

- Presentation of coordinators
- Presentation of participants
- Presentation of course program
- Course report
- Introduction to course theme:
 - Food, Medicine & Philosophy

Course program (Copenhagen)

Lectures (50 min incl. discussions/group work) at Faculty of LIFE Sciences, Univ. of Copenhagen:

Day	Time	Topic	Person
			in charge
	9-10	Practical course introduction - participants, lecturers, expectations, report	PTS / JW / JJ
Thu	10-11	Scientific introduction - what has food to do with medicine - and with philosophy?	PTS
	11-12	Cultural/social determinants of food, meal patterns and human health in West -1	LH
13.11	13-14	Cultural/social determinants of food, meal patterns and human health in West -2	LH
	14-15	Scientific knowledge about food bioactives and health in West and in China - 1	KK
	15-16	Scientific knowledge about food bioactives and health in West and in China - 2	KK
	9-10	Traditional Chinese Medicine in a Western science context	JW
	10-11	Traditional Chinese Medicine – scientific facts or fiction?	JW
Fri	11-12	Traditional and contemporary views towards nature, food and body in China - 1	OB
14.11	13-14	Traditional and contemporary views towards nature, food and body in China - 2	OB
	14-15	Nature and religion in Asian syncretistic traditions - 1	JJ
	15-16	Nature and religion in Asian syncretistic traditions – 2	JJ
Sat 15.11	15-20	Field study: What is characteristic of Danish food markets, meals and health views?	LHR /JW/PTS
Sun 16.11		Free social interactions among Danish and international participants	
	9-10	Food, medicine and philosophy in East and West – follow up	PTS / JW
	10-11	Chinese personality and understanding of networking in a global world - 1	VW
Mon 17.11	11-12	Chinese personality and understanding of networking in a global world - 2	VW
	13-14	The chemistry of food bioactives in East and West - 1	LPC
17.11	14-15	The chemistry of food bioactives in East and West - 2	LPC
	15-16	Chinese philosophy and traditional views towards Nature - 1	KBN
	16-17	Chinese philosophy and traditional views towards Nature - 2	KBN

Course program (Copenhagen)

	9-10	Food, medicine and philosophy in East and West – follow up	PTS / JW
	10-11	History and philosophy of natural science and associated ethics - 1	PS
Tue	11-12	History and philosophy of natural science and associated ethics - 2	PS
18.11	13-14	Functional foods, health science and nutrigenomics -1	LD
	14-15	Functional foods, health science and nutrigenomics -2	LD
	15-17	Presentation of headlines of proposed reports by each student	PTS / JJ
	9-10	Introduction to Tao Fong Shan and the Hong Kong/Guangzhou program activities	PTS
	10-11	Natural science and religion: historical conflicts and synergies - 1	NHG
Wed	11-12	Natural science and religion: historical conflicts and synergies - 2	NHG
19.11	13-14	Naturalistic, existential and religious aspects of health and disease - 1	NCH
	14-15	Naturalistic, existential and religious aspects of health and disease - 2	NCH
	15-17	Report work - defining key questions to be answered in written report	PTS / JJ
Thu 20.11	13-20	Departure for Hong Kong	LHR / PTS
Mon		Paturn to Cananhagan (ayaant Chinasa participants)	
1.12		Return to Copenhagen (except Chinese participants)	
Tue		Individual course concert works	
2.12		Individual course report work	
Wed	12	Delivery of course report via a mail	PTS / JJ / JMF
3.12	12	Delivery of course report via e-mail	F 1 S / JJ / JIVIF
Fri	8-12	Presentation of course reports (20 min incl. discussion).	PTS / JJ
5.12			

Course program (Hong Kong – Guangzhou)

Day	Time	Topic	
			in charge:
21.11	12-19	Arrival in Hong Kong	Independent
Fri	19	Evening meal at Tao Fong Shan (TFS)	HC / JL
FII	20-21	Welcome introduction at Tao Fong Shan	HC
	9-11	Food, body and philosophy in Chinese tradition -1	HC
	11-12	Nature philosophy in Christianity, Buddhism and Confucianism	KC
Sat	13-14	Guided walking introduction to Tao Fong Shan and Hong Kong surroundings	PTS
22.11	14-15	Visit to 10000 Buddha Monastry – pragmatic Chinese religion, food relations?	PTS
	15-16	Visit to local cemeteries in Shatin – any role of food and medicine for the dead?	PTS
	17-22	Visit to Mong Kok food and shopping markets	PTS
	9-10	Introduction to food and nature in religious traditions	PTS
	10-101/2	What relevance has food and body for a retreat centre in Hong Kong?	JL
Sun	101/2-12	Tai Wai food/medicine markets - what is different between East and West?	JL
23.11	12	Depart for Fung Ying Seen Koon Daoist centre. What is role of cuisine/food?	PTS
23.11	12½	Vegetarian meal at Fung Ying Seen Koon Daoist centre.	HC
	14-16	Demonstration/lecture by local TCM doctors at Fung Ying Seen Koon Temple	HC/TCM
	17-18	Return to Tao Fong Shan, free evening.	
	81/3	Dept. for study visit to Hong Kong Baptist Univ., School of Chinese Medicine	PTS
	9-12	Lectures, discussions, site visit and TCM museum visit at HKBU	HW
	13	Arrival Dept. Nutrition, University of Hong Kong (HKU), lunch in St.Union	PTS/JW
Mon	14-15	Introductions, undergraduate/graduate/postgraduate programs, Copenhagen/HK	JW
24.11	15-16	TCM and functional foods in East and West -1	JW/others
	16-17	TCM and functional foods in East and West -2	JW/others
	17-18	Round table or small group discussions on nutrition-health in East and West	JW/PTS
	18-20	Evening gathering HKU staff members and students	JW
	9-10	Food, Medicine and Philosophy – midway review, what have we learned?	PTS
	10-11	Food, body and philosophy in Chinese tradition -2	HC
Tue	121/2	Departure for Shenzhen and Guangzhou, Mainland China	HC
25.11	14	Shenzhen, HuaDa Yan Tian area. Beijing Genomics Institute.	LB
23.11	141/2	"Wellness" genes and mechanisms of biological maintenance – science & Dao?	LB
	17	Local eating at Beijing Genomics Institute, Shenzhen.	LB
	21	Arrival in Guangzhou	HC

Course program (Hong Kong – Guangzhou)

	7½-9	Breakfast and briefing time	HC
Wed 26.11	9	Dept for Sun Yat-sen University, School of Public Health, North Campus	MJ
	91/2-101/2	Study visit to 1st affiliated university hospital – Western medicine in the East?	MJ
	101/2-12	Food cultures in Southern China (lectures)	MJ
20.11	12-13	Lunch	HC
	13-16	Guangzhou Hospital for Traditional Chinese Medicine - difference from West?	HC
	19-21	Dinner in West Chinese style (Sichuan)	HC
	71/2-9	Breakfast and briefing time	PTS/HC
	9	Dept. for Sun Yat-sen University, Dept. Philosophy, South Campus	HC
	91/2-12	Chinese food and medicine in traditional and contemporary philosophy (lecture)	TZ / RZ
Three	12	Lunch at South Campus	TZ/ RZ
Thur 27.11	13	Departure for Guang Xiao Church	HC
	131/2-15	Food, medicine and nature in Christianity - conflicts with Chinese philosophy?	CY
	15-16	Introduction to ancient Buddhist temple – food & medicine in Buddhism?	HC/monks
	16-18	Dinner at vegetarian restaurant, Buddhist temple	HC/monks
	18-22	Free evening in Guangzhou	
	71/2-91/2	Breakfast + briefing time - Visitation to the hotel kitchen	PSA / HC
Fri	91/2-111/2	Ching Ping Herbs and Food Market, one of the biggest herbal markets in China	HC
	12-13	Herbal restaurant meal	HC
28.11	13-15	Visiting Beijing Road Market	HC
	15	Departure for return to Tao Fong Shan	HC
Sat	9-12	Wong Tai Sin temple - a Hong Kong traditional mix of food, health, religion?	PTS
29.12	12-21	Cheung Chao – seafood island life outside Hong Kong	PTS
	9-101/2	Chinese Tea meditation – what has food and nature to do with meditation?	JLE
Sun	101/2-12		
30.11	12-16	Optional: Trekking to Needle Hill or Wu Kai Shi temple/Heritage Museum	PTS
	20	Departure for airport and Copenhagen	LHR / PTS
			·

Saturday program - Copenhagen

- 1) Visitation to Grøntorvet (Israels Plads) 10.00 morning!
- 2) Visitation to Health Food Shop (Israels Plads)
- 3) Exhibition "Bodies" (H.C. Andersens Slottet (Rådhuspladsen) H.C. Andersens Boulevard 22)





Report and exam:

General course outline:

The course consists of two parts at two locations: 1) Lectures and report work at Faculty of Life Sciences (LIFE), University of Copenhagen and 2) field studies in Hong Kong and Guangzhou, China. The course consists of a series of preparatory lectures, literature searches, and an independent investigation into a topic, ideally related to the student's own PhD program (suggestions below). By the end of the course each student will prepare a written report (3-5 pages, 1½ line spacing, 12 pt.) that will be presented (Powerpoint) and discussed by the entire group of students (20 min incl. discussion) and examined by the course coordinators (pass/fail).

Suggested topics for individual reports (modified according to topics for specific PhD studies):

- 1) The physics and chemistry of food: Its science, culture and philosophy in East and West.
- 2) Nutrition and health of the human body: Its science, culture and philosophy in East and West.
- 3) Functional foods and bioactive nutrients: What are the trends in East and West and why?
- 4) Traditional Chinese Medicine (TCM) and Western medicine are there room for cross talk?
- 5) Diet, nutrition and health the secular and modern perspective versus traditional views.
- 6) Diet, nutrition and health the religious perspective (Christian, Taoist, Buddhist, Hindu)?
- 7) Natural science and religion mutual interactions and conflicts in East and West.
- 8) Diet-related life-style diseases and obesity do philosophy, culture and religion play a role?

Hints for PhD course:

Lecture part, Copenhagen:

- Web site info, obligatory and supplementary reading material
- Course report format
- Food and beverages on lecture days
- Social events and field trips in weekend
- Expected attendance for all lectures (agreed exceptions possible)

Field studies in Hong Kong/China:

- Lap top, camera for field studies
- Expected attendance for all activities
- Expenses for living and food.

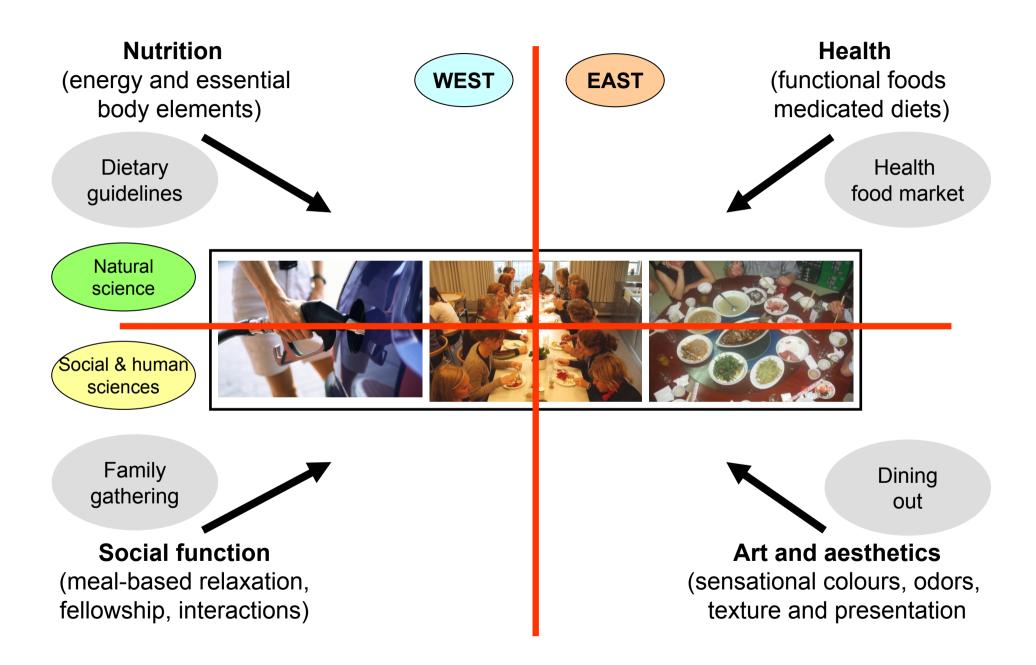
Miscellaneous:

- Remaing expenses for course bill is sent
- Course report submission deadline 3rd Dec., response on 5th Dec.
- Can you learn anything from this course that will benefit your PhD project?

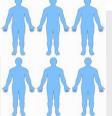
Lecture overview

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The function of meals?



Human Food and Nutrition: Natural, social and human science









Whole body nutrition

(ex. satiety, digestion, metabolism)





Tissue/organ physiology

(ex. local body effects)





Cell biochemistry

(ex. isolated cell response)

Classical molecular science

(ex. mRNA, genotype)



		Patient	Group
-	100000	20	A1
THE RESIDENCE	00/38/3-10 3	6	A1
-	S188 (B) - 1	10	B1
	11 (0)	8	B1
11 101	33 35 3	1 15	B1
11 100 1	23 30 1	1 11	B1

Population nutrition

(ex. guidelines, special groups)



Sociology/Economics/History

(ex. meal patterns, class, education, price)





Culture/Aesthetics/Gastronomy

(ex. food art, looks, palability, cooking)

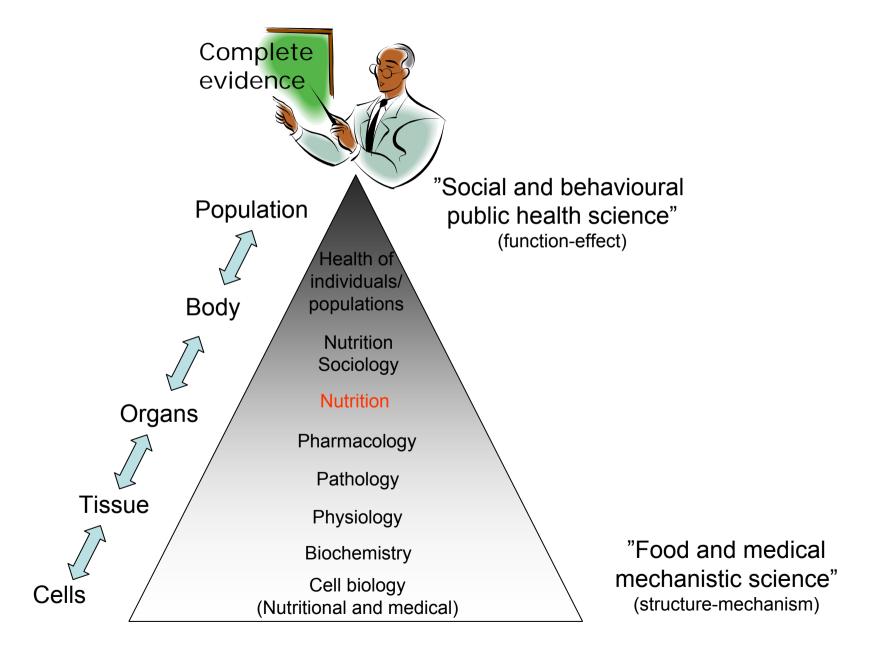
Culture/Art/Philosophy/Religion

(ex. tradition, vegetarianism, nature holism)

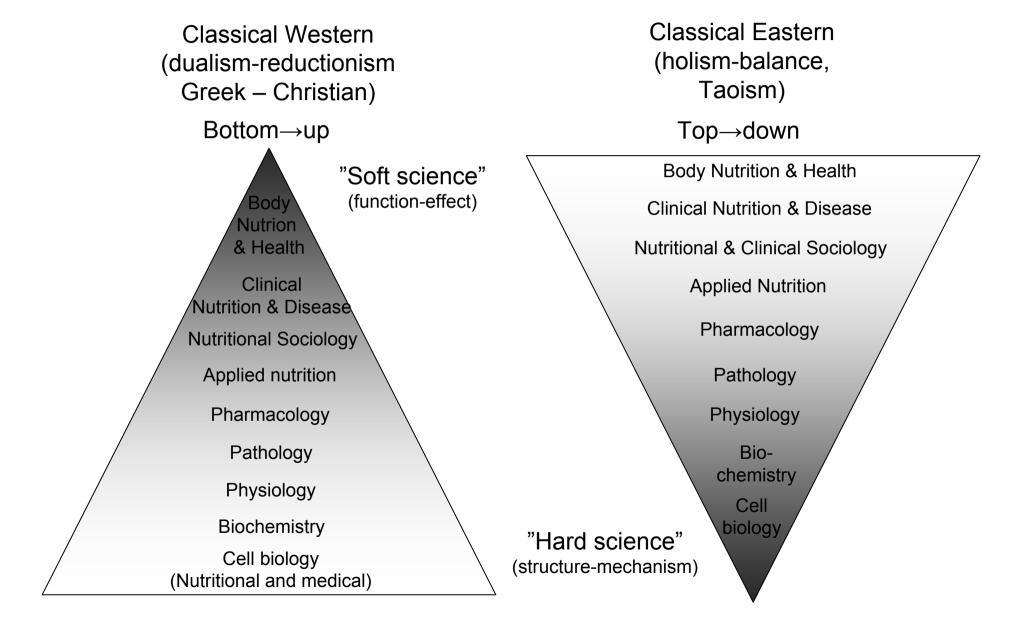




Nutritional/medicical evidence hierarchy



Food & medicine science philosophy



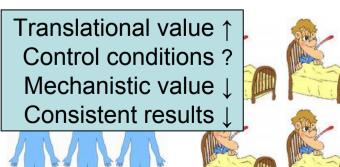
(Western) nutrition science epistemiology

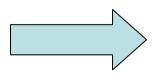
(- how do we know, that we know...)

Observational studies on health and disease



RCT human intervention studies



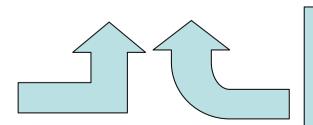


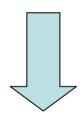
Animal model studies

Translational value ?
Control conditions ↑
Mechanistic value ↑

Consistent results?

Accepted basic and applied knowledge



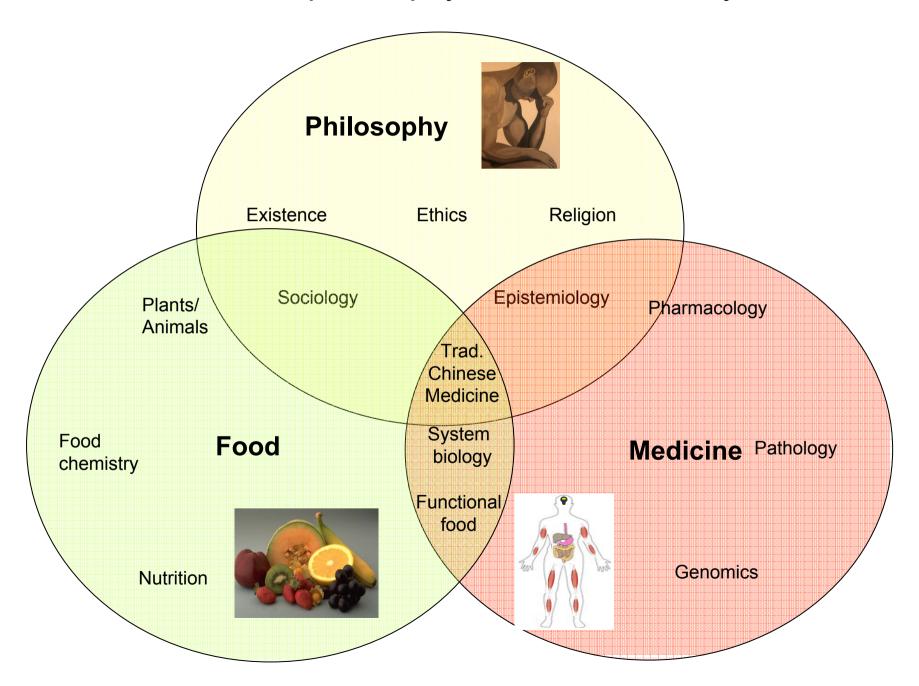


Cellular studies

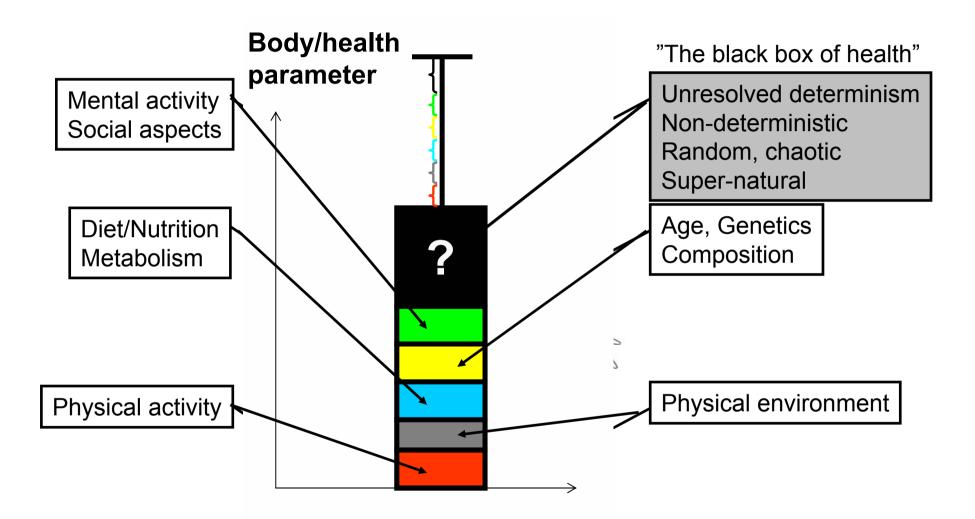
Translational value ↓
Control conditions ↑
Mechanistic value ↑
Consistent results ↑



Food, medicine and philosophy – some main study fields:

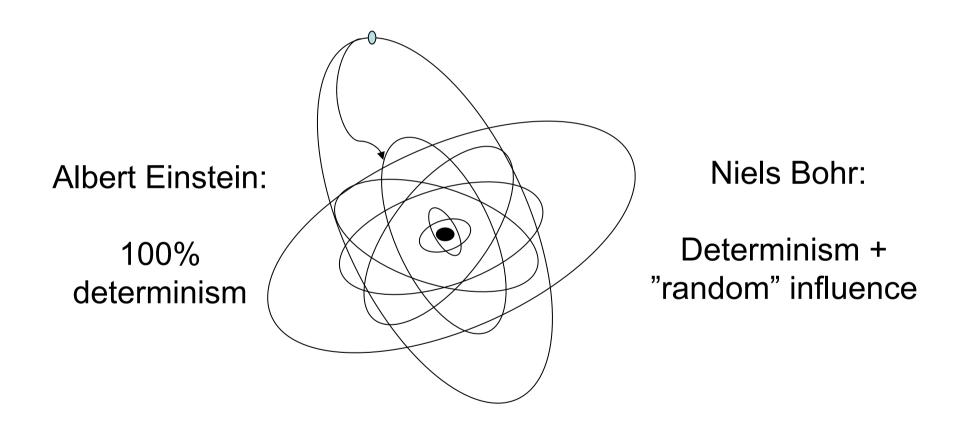


Health determinants:



The same potentially applies for any given food

The Bohr and Einstein discussion about the nature of the natural world:



Food and Medicine: 100% determinism or room for random/supernatural effects?