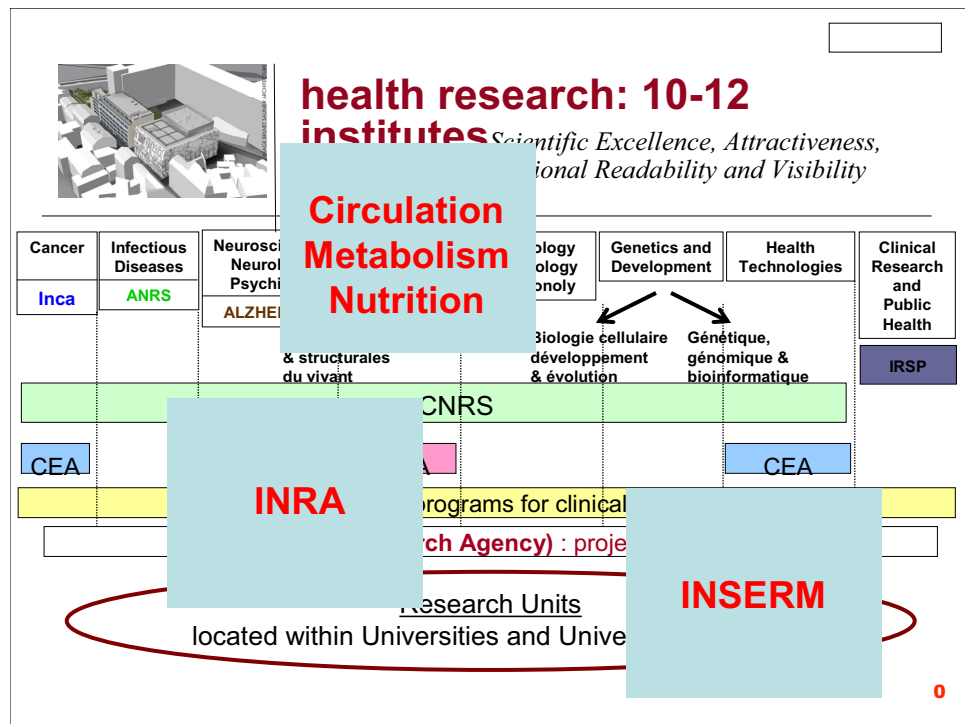


LA RECHERCHE SUR L'OBÉSITÉ, LA PLACE DES INSTITUTS

CHRISTIAN BOITARD

**Professeur d'immunologie clinique,
Directeur de l'institut « circulation, métabolisme, nutrition »**



CIRCULATION METABOLISM & NUTRITION

recommandations AERES

- streamline and unify the management system of its life sciences and health research operations
 - a single National Institute for Life and Health Sciences Research
 - career pathways of the French life sciences and health scientists
 - implementation strategy that would ensure continuity over a transition period of several years
- Streamline the peer review and evaluation process
 - Unify and simplify the approach to the management of intellectual property
 - In-depth review of INSERM budget allocations
 - Improve relationships with all research stakeholders, particularly the public
 - Maximise the use and coordination of funds for clinical research
 - Reduce the number and size of advisory committees

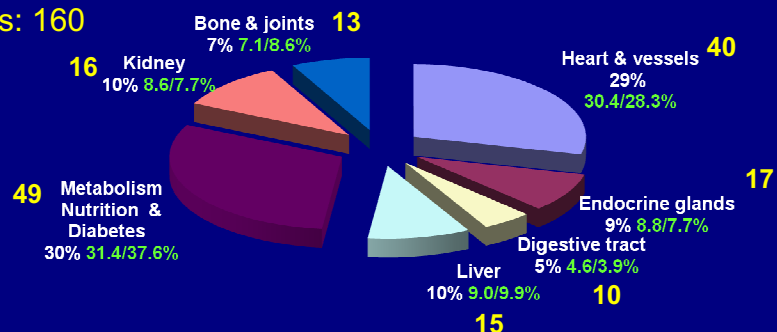
CIRCULATION METABOLISM & NUTRITION

staff researchers:

405 [INSERM:300 CNRS:101 INRA: 4]

+ **university**
628/251.6

units: 160

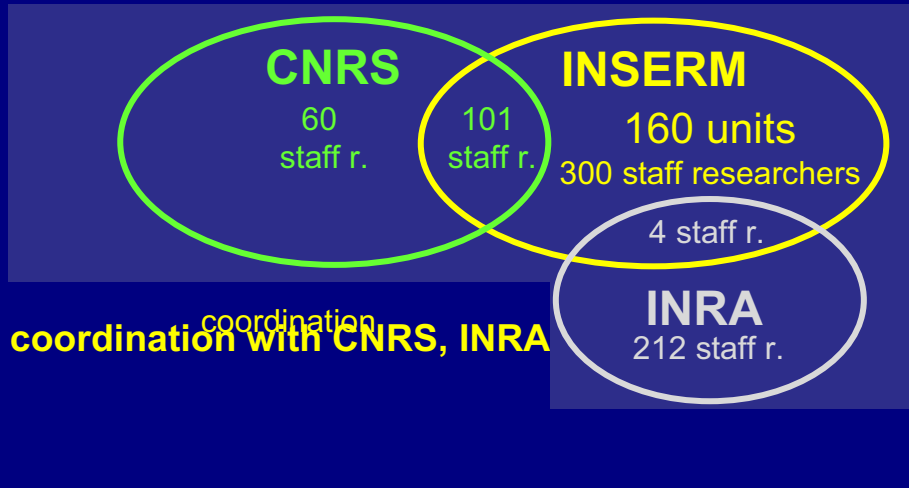


directors: 60% on a university track

CIRCULATION METABOLISM & NUTRITION



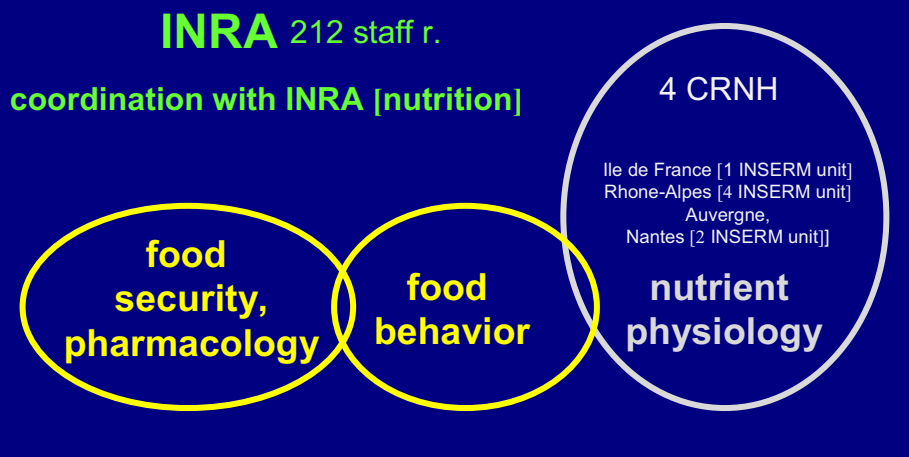
specificities



CIRCULATION METABOLISM & NUTRITION



specificities



CIRCULATION METABOLISM & NUTRITION

publications 2004-2008 (IF > 5)

circulation
diabetes
nutrition
obesity,
endocrinology
gastro-enterology
hepatology
nephrology
bone & joints

domain	INSERM	total
heart/vessels	349	811
diabetes/endoc	496	911
lipids, obesity	55	130
liver/gut	385	734
bone/joints	109	250
kidney	150	283

CIRCULATION METABOLISM & NUTRITION



coordination [nutrition]

JOURNAL	IF	Papers (n)						
		world	INRA	INSERM	CNRS	INRA/INSERM	INRA/CNRS	CNRS/INSERM
Journal of nutrition	3.61	7273	121	50	10	12	2	8
Obesity research	3.97	4739	5	31	6	3	0	3
American J. of clinical nutrition	5.85	3573	39	52	6	14	2	1
International J. of obesity	4.48	3206	17	99	21	8	0	4
Food chemistry	1.81	3096	5	1	12	0	3	0
J. of pediatric gastroenterol and nutr.	2.08	2506	8	20	2	2	1	1
J. of the amer. diabetol association	2.38	2247	3	5	none	1	0	0
British j. of nutrition	2.97	1889	121	52	9	13	1	3
Nutrition	2.06	1542	1	9	3	0	0	1

	IF	world	INRA	INSERM	CNRS	INRA/INSERM	INRA/CNRS	CNRS/INSERM
total	0.72-5.85	50729	741	548	178	102	34	34
n		51	39	37	30	22	13	16

CIRCULATION METABOLISM & NUTRITION

major issues in the french health context

health issues

scientific issues

technological issues

organizational issues

industrial issues

societal issues

☞ coordination

☞ programmation

☞ interface avec la société

CIRCULATION METABOLISM & NUTRITION

major issues in the french health context

health issues

☞ obesity: 12.4% of the adult population in 2006

☞ public health challenge in two opposite fields: diseases related to nutrition overload: obesity, dyslipidemia, type 2 diabetes

☞ cardiovascular diseases: 29% of deaths [atherosclerosis]

☞ diabetes: 6.2%, glucose intolerance: 5.6% in France (age 20-70)
leading cause end stage renal disease, blindness, coronary disease
10% health care expenses in USA 2002 / ↗ 50% 1997 → 2007

☞ malnutrition: 30-50% hospitalized patients, independent mortality factor

CIRCULATION METABOLISM & NUTRITION

spécificité du champ de l'obésité

☞ large éventail de champs disciplinaires:

de la connaissance de l'aliment (chimie, physicochimie, technologie des procédés) à celle de l'alimentation et de ses effets (biologie et toutes ses facettes, épidémiologie, psychologie, sociologie, économie)

☞ de l'homme sain à l'homme malade

connaissance de l'aliment, physiologie du tube digestif, comportement alimentaire, sécurité alimentaire

☞ 4 départements : alimentation humaine (AlimH), technologie alimentaire (CEPIA), microbiologie (MICA) et sociologie/économie (SAE2).

caractéristiques organoleptiques des aliments et comportements alimentaires , « métabonomique » des effets physiologiques des aliments et des nutriments, microflore digestive, aliment et gènes : nutriginétique nutriginétique, épigénétique

CIRCULATION METABOLISM & NUTRITION

major issues in the french health context scientific issues

☞ **genetics: human genome sequence**

☞ the gene to function challenge

☞ the human diversity challenge

☞ epigenetics, metagenomics

☞ **development biology: stem cell differentiation**

☞ organ replacement therapy

☞ **innate immunity and metabolic pathways**

☞ environment, inflammation, diseases

☞ **innovative therapies**

☞ strategies based on disease mechanisms

