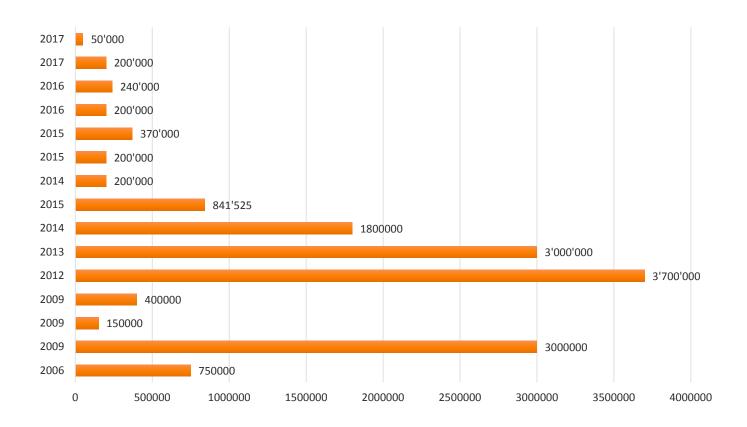


Personal history of funds obtained: 15M









FONDS NATIONAL SUISSE
SCHWEIZERISCHER NATIONALFONDS
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Département fédéral de l'intérieur DFI

Office fédéral de la sécurité alimentaire et des affaires vétérinaires OSAV



EUROPEAN COMMISSION















The majority of submitted projects are rejected





A few logical rules

- 1. To be financed, a project needs to be submitted.
- 2. The majority of submitted projects are rejected.
- 3. Rejection does not mean that the project is not good.
- 4. A project can always be improved.





Rejected projects can be recycled







The most difficult fundings to obtain are the first ones, when the CV is «light»

3







Do not under estimate the administrative part!







Tips!

- Many rejections occur because the project does not match the call.
 - > read the conditions several times.
 - → call the administrative person in charge.
- Some reviewers will not spend many hours reading your project.
 - spend time on the summary and on the structure
- Many reviewers will not be experts in the field
 - → ask a colleague to read the project



Both content and format are important

Content

Form





Structure, references, sentences, paragraphs

2. To develop epidemiology tools better able to capture the dietary patterns and nutritional status of the Swiss population.

Given the recognized need for novel and more efficient population epidemiology tools to capture dietary patterns and the nutrition status of people, we plan to conduct new analyses on existing population-based data (Menu-CH1, SKIPOGH) and biobank (SKIPOGH) and to generate new population-based data (SKSC controls) taking advantage of the existing infrastructure, human resources and expertise.

2.1. To examine the nutrient density of the Swiss diet, overall and by regions [MB, OB, CW].

Nutrient profiling, which aims at categorizing foods according to their nutritional quality^{83 84} has been advocated as a useful tool to guide public health strategies and policies⁸³. Diets rich in nutrients and low in energy could prevent non-communicable diseases⁸⁵. The Nutrient Rich Food index score 9.3 (NRF9.3) was inversely associated with all-cause mortality in the Rotterdam study⁸⁶. In this project, we will generate the nutrient density of consumed foods (Menu-CH1 data) in Switzerland using nutrient profiling scores. We will describe the nutrient density of Swiss diet overall and by regions using standard statistical techniques. **Data source:** Menu-CH1.

2.2. To explore the contribution of fermented foods to the Swiss diet and to assess their associations with the available health outcomes, focusing on fermented dairy [GV, MB, CW, OB].

Microbes and products of microbial fermentation in foods are integral parts of the diet of hominids since at least the Early Mesolithic 9'200 years ⁸⁷. The role of food fermentation in human societies has



Task 2.1: Ethics approval for all data sets

Even though ethics approval was obtained for all data sets it will be assured that potential changes in the study goals can be followed by the amendments of the ethics protocols. This task will also assure new ethics requests of other data need to be acquired.

Task 2.2: Ethical monitoring for big medical data

Task 2.2 will work with other stakeholders in Switzerland and internationally on ethical aspects linked to medical big data. It is an important topic to protect personal data. On the other hand it can also be unethical to not use data that can help many people.

Task 2.3: Security guidelines for EaaS

This task will work on security constraints of new data analysis models such as EaaS. This could be done in fully sandboxed environments, as it is important to not import security problems to the hospital network when moving algorithms to a secure data storing environment.

Task 2.4: Anonymization of data and constraints

The data from the cohort studies is already anonymized but this task will further analyse the risks of the data to allow for re-identification and implement tools also for potentially additional data that are to be acquired.





Milestones (M, month):

- M04: Formal approvals for use of the data for the two case studies are available for the three datasets
- M12: Metadata and data are harmonized across datasets
- M12: First infrastructure prototype ready and usable for data access
- M18: Interviews with small enterprises in the medical field regarding take up of data access technology etc.
- M24: First organization of scientific challenges on the give infrastructure
- M24: User tests of the visualization tools in view of commercialization, tests to show costs reductions in hospitals
- M36: Second prototype of the integrated data access, machine learning and visualization tool ready
- M36: Clear idea on the value of anonymized medical research data, value of annotations and also value reduction of medical data over time



Figure 5. Road map figure during and beyond the project.



Include figures and tables

- Figures and tables provide a lot of information in a short amount of time.
- Adequately label axes (big font!)
- Figure legends are very important and need to be selfexplanatory.





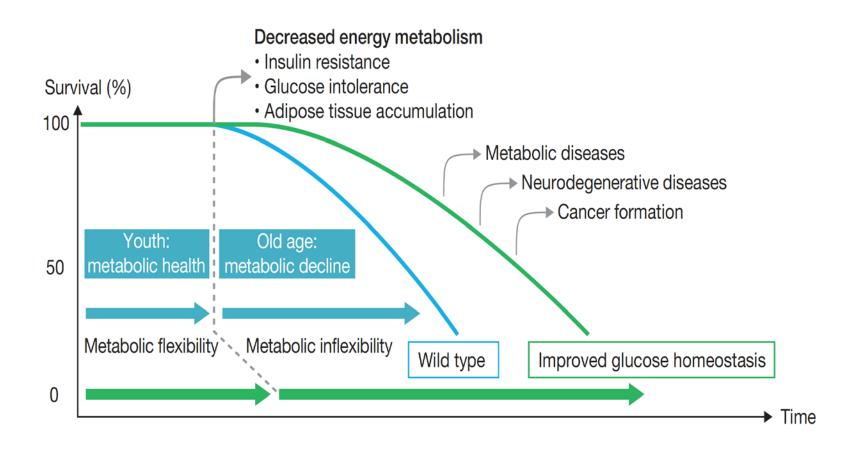
Table 1. Available data for which investigators directly contributed and resources and corresponding projects

Data/resource	Funding	Responsible	Regional coverage	Contribution
		persons		to projects
SKIPOGH1 & 2 data and bio-	SNF-funded,	МВ	Cantons VD, GE,	1.2; 1.3;2.2
bank	H2020 (Lifepath)		BE, adults 18-90	
			years	
SKSC infrastructure, proto-	NCCR-Kidney.CH,	OB, CW	All Swiss University	1.2, 1.3;2.2;
col, centralized laboratory	Hospitals		Hospitals	2.3
MenuCH1 food intake data	FSVO	MB, FSVO	Swiss 18-75 years	1.1; 2.1; 2.2
Nutrition intervention stud-	Agroscope	GV	Relevant world-	2.2
ies (FOODBALL, Nutrichip 2,	SNF, JPI		wide	
F3, trans-fatty acid)				
Broad nutrient panel list and	Molecular Nutri-	SR	Relevant world-	1.3; 2.2
fully equipped laboratory	tion group, NIHS		wide	
LCA databases	ESU-services	NJ	Switzerland and	1.1
			imported food and	
			feed products	

FSVO, Federal Food Safery and Veterinary Office. NIHS, Nestlé Institute of Health Sciences. SHBS, Swiss Household Budget Survey. SKSC, Swiss Kidney Stone Cohort. FSO, Federal Statistical Office (http://www.bfs.admin.ch/bfs/portal/en/index/infothek/erhebungen__quellen/blank/blank/habe/01.html). F3 (function fermented food) study. FOODBALL, The Food Biomarker Alliance.

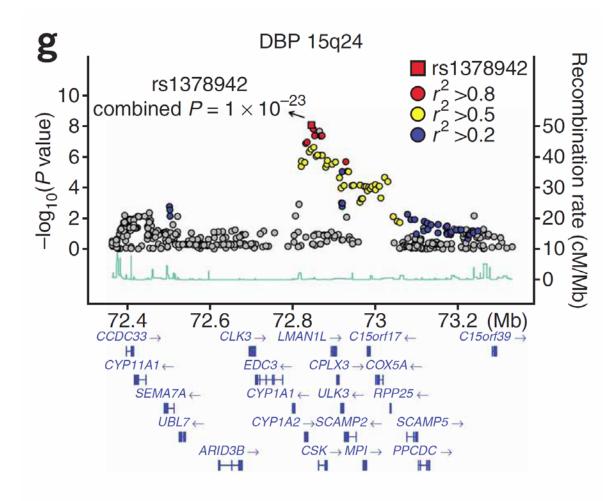


Life-course perspective and metabolic flexibility



Riera &. Dillin (2015). "Tipping the metabolic scales towards increased longevity in mammals." Nat Cell Biol 17(3): 196-203





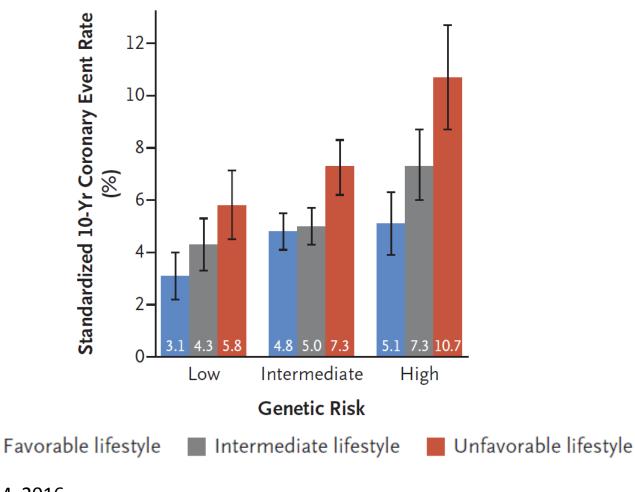








10-year risk of myocardial infarction: usefulness of lifestyle at any genetic risk







Distribution of All TFBS Regions

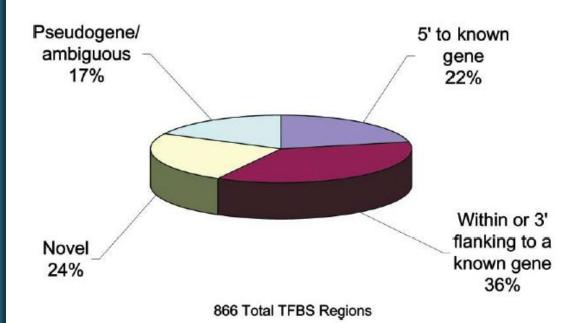
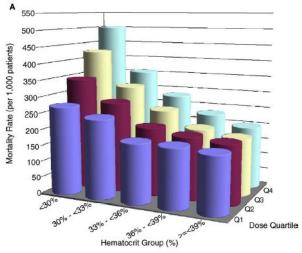


Figure 1. Classification of TFBS Regions

TFBS regions for Sp1, cMyc, and p53 were classified based upon proximity to annotations (RefSeq, Sanger hand-curated annotations, GenBank full-length mRNAs, and Ensembl predicted genes). The proximity was calculated from the center of each TFBS region. TFBS regions were classified as follows: within 5 kb of the 5' most exon of a gene, within 5 kb of the 3' terminal exon, or within a gene, novel or outside of any annotation, and pseudogene/ambiguous (TFBS overlapping or flanking pseudogene annotations, limited to chromosome 22, or TFBS regions falling into more than one of the above categories).







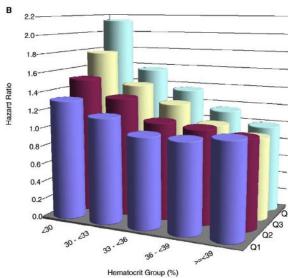






Table 5
Simulation results for using full data, CRs only, and proposed method under four missing mechanisms

	Bias ^a		$Variance^{b}$		95% CI ^c	
Method	(\hat{eta}_W)	(\hat{eta}_X)	(\hat{eta}_W)	(\hat{eta}_X)	(\hat{eta}_W)	(\hat{eta}_X)
		(M.1) P(R	= 1) = 0	0.66		
Full	0.01346	0.02229	0.04008	0.03685	0.955	0.950
Comp	0.03062	-0.003561	0.1149	0.06732	0.960	0.955
Impu	0.01431	0.021	0.04088	0.05169	0.980	0.975
	(N	1.2) logit <i>P</i>	R(R=1)	= 2Y		
Full	0.007908	-0.02116			0.975	0.925
Comp	0.01945	0.07096	0.107	0.06581	0.960	0.950
Impu	0.006966	0.01597	0.04227	0.05226	0.975	0.985
	(N	1.3) logit <i>P</i>	(R=1)	=2X		
Full	0.007908		0.03838	0.03624	0.975	0.925
Comp	0.01225	0.0589	0.08856	0.06818	0.980	0.975
Impu	0.009563	-0.04699	0.03865	0.04923	0.985	0.970
	(M.	4) logit $P(I$	R = 1) =	X + Y		
Full	0.01346	0.02229	0.04008	0.03685	0.955	0.950
Comp	0.02404	1.613	0.1102	0.08202	0.955	0.580
Impu	0.01814	0.08289	0.0578	0.06075	0.955	0.970

^aBias = $(\hat{\beta} - \beta_0)/\beta_0$.



^bSimulation variance.

^cConfidence interval using jackknife standard error.

Funding sources

 https://www.unil.ch/researcher/en/home/menuguid/finance ments/financement-fondations.html

swissuniversities

 https://www.swissuniversities.ch/fr/services/bourses-pourles-etudes-a-letranger/plusdinformations/fondationssubventions/







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- Carrier (doc-mobility, post-doc, ambizione, prima)
- Projects
- Programmes: PNR, PRN, Sinergia, SCOPES, BRIDGE, COST, NCCR, longitudinal studies





BRIDGE

- BRIDGE is a joint programme conducted by the SNSF and the Commission for Technology and Innovation (CTI). It offers new funding opportunities at the intersection of basic research and science-based innovation, thereby supplementing the funding activities of the two organisations.
- BRIDGE consists of two funding schemes:
- **Proof of Concept** is aimed at young researchers who wish to develop an application or service based on their research results. These projects may target all kinds of innovations from all research areas.
- **Discovery** is aimed at experienced researchers who want to explore and implement the innovation potential of research results. Only technological innovations that have a societal and economic impact will be funded.





BRIDGE 22.01.2018







Horizon 2020

 Marie Skłodowska-Curie actions (MSCA) provide grants for all stages of researchers' careers - be they doctoral candidates or highly experienced researchers - and encourage transnational, intersectoral and interdisciplinary mobility.

- ERC starting grant
- ERC consolidator grant
- ERC advanced grant



Established by the European Commission







- National MD-PhD-Programme
- Funders involved in the program
- Swiss Academy of Medical Sciences (SAMS)
 Swiss Cancer Research (KFS)
 Swiss National Science Foundation (SNSF)
- Lausanne:
- Prof. Ivan Stamenkovic, E-Mail: ivan.stamenkovic@chuv.ch, md-phd@unil.ch
- https://www.unil.ch/mdphd/en/home.html





Benefits of writing a grant

- 1. Knowledge improvement
- 2. New ideas
- 3. Networking
- 4. Setting-up collaborations







