# Innovations in catering industry: first results of a quasi-experiment at a university canteen 

Worldwide consumption of meat and milk products is increasing. ${ }^{1}$ These nutritional transitions affect the environment as well as public health. ${ }^{2}$

Eating habits in Switzerland center around dairy and meat. At the same time a rising share of all main meals are not eaten at home ${ }^{3}$, and large numbers of people eat daily in the public or institutional food sector. ${ }^{4}$

- How can the catering industry contribute to a moderate consumption of animal-based food?
- How can consumers be prompt to eat more frequently resourcelight meals with less animal products?


## Method

Transdisciplinary approach: a quasi-experiment ${ }^{5}$ in two ZHAW canteens was developed and conducted with practice partners (SV Schweiz, ZHAW Facility Management).
Intervention: Increased share of plant-based vegetarian and vegan meals.
Length: 2 canteen cycles à 6 weeks.
Meal offer: over 90 different meals via three menu lines (Favorite, Kitchen, World). An important part of the experiment was not to label the meals as vegetarian or vegan.

## Preliminary results

- Patrons (with CampusCard): 1601; F/M: 46/54; mean age: 31 years ( $S D=10$ ).
- Sold meals (with CampusCard): 23‘900 meals on 60 days; meals/patron: 15
- No differences between total meal sales 2015, 2016 and 2017.
- No differences between total meal sales in «meat» weeks and «vegetarian» weeks.
- Meal choice depends on meal offer: In «vegetarian»
weeks more vegetarian and vegan meals are sold.
- Women chose less frequently meals with meat than men.


Figure 2: Differences in meal choice between men and women, $X^{2}\left(4,22^{\prime} 483\right)=746.64, p<0.001$

percentage of sold meals in autumn semester

## Outlook

- Further statistical analyses of individual and panel data: explaining meal sales; finding nutrition patterns; LCA of «meat» and «vegetarian» weeks; etc.
- Discussing results with practice partners.
- Conclusions and recommendations to develop innovative resource-light meal offerings.

Figure 1: Differences in meal choice between «meat» weeks and «vegetarian» weeks, $X^{2}\left(4,26^{\prime 4} 177\right)=2$ '367.6, $p<0.001$


Table 1: Repeated $A B A B A B$ reversal design5 with the three menu lines.
References


Healthy Nutrition and Sustainable Food Production National Research Programme NRP 69

