A New Approach for an Agri-Culture
Integrating Science and the Arts

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Abstract
Agriculture in the art institution “Zentrum Paul Klee” (ZPK) and joint approaches of art and science to address burning problems of our time? Yes, and for many good reasons. The ZPK is explicitly an interdisciplinary art center and in addition to the notion “culture”, art and agriculture share many other interests and concerns, especially in the area of their responsibilities to society and the environment. FRUCHTLAND (Fertile Land) was named a project and concept of the ZPK, launched in 2015, for a holistic inter- and transdisciplinary Agri-Culture that is integrative and participatory, integrating science, arts, practical approaches and society.

Keywords: Scientific and artistic research; Integrative sciences and arts; Cultural sustainability; Sustainable agriculture; Agroecosystem; Biodiversity; Ecosystem services; NUS

Introduction
It is only a small step from the artist Paul Klee, who intensively occupied himself with growth in nature, to the Agri-Culture practiced on the grounds of the art center ZPK. The title of the project FRUCHTLAND (Fertile Land) refers to Klee’s watercolor “Monument in Fertile Land”. Renzo Piano, the famous architect of the ZPK, did not want a park around the buildings but an agriculturally utilized environment typical for the site. He understood the building and its environment as one unit, as a landscape sculpture which is circumscribed by a steel rail. Since the inauguration in 2005 sustainable agriculture is practiced on the main field of 2.5ha, the biodiversity is supported and the whole ecosystem improved (Figure 1).

Figure 1: The cultivation area is part of the architectural concept of Renzo Piano. In the near foreground, the edge of a nutrient-poor meadow is visible, followed by Oil seed flax and in the background by “Biodiversity Promotion Areas” (BPA) with a very diverse flora and fauna.

Since 2013 the FRUCHTLAND approach has been refined and extended. Models for the farming at the ZPK are highly sustainable farming \cite{1,2} like organic, high level integrated production \cite{3,4} and other sustainable systems such as permaculture. The attempt is to achieve the highest possible degree of sustainability. The products are certified with the label “IP-Suisse” of an association of Swiss farmers committed to a sustainable, environment-friendly...
agriculture. The concept focuses on ecologically oriented farm management practices as well as on biodiversity with measures to encourage “beneficials” (honey and wild bees, butterflies, natural enemies of pests) and hence to improve the ecosystem services. The crop on the main field and the experimental plots are in accordance with a favorable crop rotation and are related to the motto of the year of the project FRUCHTLAND. The aim is to awake public’s awareness for sustainable agriculture and corresponding consumer behavior. The harvested products are available in the museum shop and utilized and presented in the gourmet restaurant Schoengruen, that is part of the ZPK. The trail around the ZPK and within the landscape sculpture discloses interesting perspectives to partly unknown or forgotten crops and to biotopes that may support endangered species such as specific butterflies or native orchids. To achieve this, the aim is a high biodiversity of flora and fauna.

The main field and the experimental plots demonstrate possibilities to improve the ecosystem services and new, creative ideas on sustainable approaches for farming (Figure 2). Together with partners from art, agriculture and society issues are taken up around the values and merits that are closely related to local and global ecosystems and to nature in general (esp. global biosphere). Together with these partners the ZPK is interested in the laws, the beauty and the creative potential of nature and issues such as water pollution, climate change, loss of species and biomass or the availability of sufficient and healthy food for all – worldwide.

**Figure 2:** Map of the Zentrum Paul Klee:
1. Art Exhibitions.
2. Black Bees (*Apis mellifera mellifera*) and wild bees.
3. Biotopes for insects.
4. Demonstration plots.
5. Experimental plots.
6. Main field with arable crops, about 2.5ha.
7. FRUCHTLAND (fertile land) - Information panel.
8. Native shrubs (32 species), heaps of branches and stones, extensive meadow.
9. Biotope with stormwood (storm Burglind, 2nd January 2018) / tree guild (elements of permaculture);
10. FRUCHTLAND preview of the year at the entrance of the ZPK: selected plants reflect the motto of the year.

**Nature, culture, agriculture**

The concept of the project FRUCHTLAND that was finally developed in 2014 and is fully applied since 2015, depicts the analogies between nature, culture and agriculture at levels which are fundamental to the term “culture”, used by farmers and artists alike and therefore highlights the concern for basic values, both material and idealistic [5]. The goal is an integrative and participatory Agri-Culture, which is trying to integrate science, the arts and practical approaches; then analyzing and weighing the various proposals and potential contributions to achieve really sustainable conditions for agriculture and the arts in economic, ecological and social terms.

The concept focuses on responsibility to nature and society, inherent to the arts and land use. As an owner of fertile arable soils (literally “FRUCHTLAND”, i.e. fertile land), the ZPK intends to assume responsibility to use the land in an exemplary manner, i.e. as sustainable as possible and in offering possible models for farmers, urban gardeners, consumers and the general public alike. The intention of the project goes even further: we need to talk about what is possible to achieve by joint approaches of agronomists and artists with inclusion of the general public and show where boundaries occur, and which conflicts may arise.

**Partners**

For the project FRUCHTLAND, the ZPK has teamed up with partners who are interested in unconventional views and open to holistic, inclusive (inter- and transdisciplinary) and global
perspectives. In the project FRUCHTLAND, the ZPK is working with the Bern University of Applied Sciences; School of Agricultural, Forest and Food Sciences (BFH-HAFL). Its former professors Fritz Haeni and Harald Menzi had already developed as advisors on the side of Renzo Piano sustainable land use schemes for the ZPK. Since 2013, Peter Fischer (CEO and director of the ZPK from 2011 to 2016, now independent expert in art) and Fritz Haeni (ZPK-advisor) have jointly developed the new concept of FRUCHTLAND, with the support of Claudia Dähler and Dominik Imhof (ZPK), as well as Christoph Studer and Karin Ruchti (BFH-HAFL). From 2016, the further development and promotion of FRUCHTLAND is provided by Nina Zimmer, the new CEO and Director of the ZPK. Another partner who has been present since the beginning is the Biovision Foundation. Together with its African partners it has developed for Africa appropriate sustainable organic cultivation methods and raises awareness of the consequences of different worldwide consumption patterns. FRUCHTLAND also has several other important partners: IP-Suisse, mellifera.ch, the Restaurant Schoengruen, Hortiplus and Stadtgruen Bern (City Gardens Bern).

**Methods**

Ecological improvement of the site and monitoring

The biodiversity of the ZPK’s surroundings was increased, promoting and introducing native wild plants. The cultivated plots are surrounded by ecological surfaces, so-called biodiversity promotion areas (BPA), such as wildflower bands or low-nutrient grassland [6]. The total of BPA is 15.7% of the “utilised agricultural area”. For the impact of these BPA surfaces, see [7,8]. Moreover, in the adjacent neighborhood there are sites with forest-like habitats and large surfaces with late mown park-like grassland. In 2015, non-native trees and shrubs of little ecological value and some with unsatisfactory growth have been removed and replaced by native species compliant with the site. Large-growing native trees and an important number of shrub species were added, including species that are hosts for beneficial insects, but excluding species that are relevant hosts of plant diseases. For insects with special requirements in 2016 appropriate biotopes have been set up: For example paving stones surrounded by natural sand or areas with mixtures of sand and some clay for insects such as wild bees needing appropriate niches to lay their eggs in the ground (Figure 3).

![Figure 3: At the edge of the South hill building and on other sites of the ZPK special biotopes promoting soil-nesting wild bees, butterflies and other insects were established.](image)

Ecological enhancement measures may not necessarily be sophisticated and costly but can often be rather simple

An old fruit tree, that was felled by the storm Burglind on 2\textsuperscript{nd} January 2018, was transformed into a diversified biotope. In front of the south entrance, antlions can be watched, which found their home in a sandy edge away from rain where they dig their crater and sometimes wait for months until prey falls into it. The only thing that was necessary for the development of this precious biotope consisted of removing the pebbles from the surface and to fence it so that it is not trampled. Regular monitoring such as vegetation analyses, soil analyses (including measurement of meso- and macrofauna sounding), surface soil traps (e.g. pitfall traps) was systematically applied at different locations.

**Applied farming system**

The main field of approximately 2.5 hectares of agricultural land (“utilized agricultural area”) is surrounded by low-nutrient
and highly biodiverse grassland (Figure 1). On the main field arable cash crops are grown in a diversified and healthy crop rotation. During the last 15 years the following crops were grown: Winter barley with added secondary flora (3 times); Oil seed rape with early flowering Bird rape on the field border (3 times); Oil flax (once); Triticale with added secondary flora (twice); Sunflower (twice); Corn (twice, with sunflowers on the field border); Winter wheat with added secondary flora (once); Spring oats (once); Spelt (once). Where species and varieties mixtures were appropriate, intercropping (species blends) and cultivar blends were applied, between main crops catch crops. The farming system follows the criteria of a highly sustainable agriculture. This implies that it strives for a high ecological and social performance but is at the same time focusing on a productive and economic result [9-12]. It’s about using the laws of nature in a wise and responsible way, respecting the function of the ecosystems [13]. The objective is to maximize the functional biodiversity (ecosystem services), to

e. choose appropriate mixtures of species and varieties,
f. use undersowings (sown under the main crop) and catch crops.

At the same time, it means to minimize direct plant protection methods (renounce synthetic substances whenever possible), but at the same time also use biological products only with the utmost restraint and in accordance with the risk profile. It has for example certainly to be avoided to “protect” the soil surface against erosion by using a single active ingredient of a total herbicide (e.g. Glyphosate), that is even applied worldwide [14]. On the contrary the effect on the whole ecosystem has always to be taken into account, including the preservation of the biodiversity.

**Experimental and demonstration plots**

The demonstration plots are used to implement and demonstrate the motto of the year and to answer specific questions. For example, in 2015 classical hybrid fodder corn was grown on the main field and, on the other plots, traditional varieties for human consumption as well as a lot of colorful varieties once cultivated by American Indians. An experimental plot has been set up to show e.g. how the Push-Pull- method works in Africa or the Pull-Push-method in Europe (cf. chapter “Results”) (Figure 4).

**Events**

The mission of the project FRUCHTLAND is to bridge the gap between the culture and agriculture, the art and nature. The FRUCHTLAND’s guides and flyers are distributed free of charge to all visitors of the museum [15,16]. FRUCHTLAND’s annual motto (e.g. in 2018 with main crop oil seed rape: “Smallest seeds, great diversity, rich harvest”) corresponds to the grown crops, exemplified ideas on sustainable farming and ecosystem services as well as to the program of art exhibitions. Guided tours on art, nature and agriculture are organized regularly throughout the growing season. An “Agri-Culture-Day” is held five or more times during the vegetation period, with invitees and experts from the art world, applied agriculture, science and politics. Using concrete examples of crops or biodiverse habitats just outside the ZPK building, fundamental questions can be adressed (Figure 5). For example, how a reoriented agriculture will be able to produce enough healthy food, diverse and aesthetically beautiful landscapes, maintain a healthy global ecosystem and make the products
available to all human beings. Such fundamental discussions clearly demonstrate the importance of an interdisciplinary and cross-sector approach (from art and science to practical agriculture). An intuitive and creative research approach – common in art – can open up new holistic perspectives by complementing the traditional reductionist approaches of the natural sciences. The project FRUCHTLAND considers the food-chain in its entirety, with an emphasis on the passage from “Field to Fork”. The “Agri-Culture-Days” often end with a tasting of delicious dishes prepared by the Restaurant Schoengruen from the crops discussed during a tour around the ZPK. Moreover, the ZPK and its surroundings have a great deal of demonstration objects on sustainable agriculture and an ecologically oriented landscape design. For example, several populations of the original, but endangered native black bees (Apis mellifera mellifera) can be seen in a viewing window near the main hall for art exhibitions (by the way – this is the largest such hall in Switzerland).

Figure 5: “Agri-Culture-Days” and guided tours on art, nature and agriculture are organized throughout the growing season and field trials as well as the development of the biodiversity are analyzed regularly with students, cf. photo (University Neuchatel, CABI, BFH-HAFL).

Results and Discussion

Biodiversity and ecosystem services

The biodiversity of the ZPK’s surroundings was substantially increased by biodiversity promotion areas (BPA, cf. chapter “Methods”). Nectariferous plants that bloom during the entire growing season are essential for butterflies, honey and wild bees and other pollinator insects. The structural biodiversity was increased by tree and shrub species. On an area where hitherto a monoculture of a single shrub species was prevalent, 32 species of native shrubs including 11 species of wild roses were planted. Diversity has been enriched also with piles of branches and stones (Table 1).

Delicate species, e.g. native orchids are favored by low soil nutrient content (absence of fertilizers) and late mowing of the grass, or even the absence of mowing [21,22]. The ZPK takes part in the master plan for orchid protection in the Kanton Berne, where fifteen orchid species are considered to be most endangered [22,23]. Many of the native orchids, often pioneer plants, are endangered by habitat loss, although all known 76 species are protected throughout Switzerland (all are growing on the soil). In the last 15 years, only 58 species have been detected in the Kanton Berne. In the Bernese Midlands, 40% of them have a high risk of extinction or are already extinct. Orchids are so-called umbrella species. Where they grow thanks to appropriate low-nutrient habitats and symbiosis with mycorrhiza, the biological activity of the soil is often high and also other rare animal and plant species can often be found.

On the ZPK grounds Neottia ovata is still present in a small and rather undisturbed original wood-like habitat. From the reintroduction trial with different endangered species on the ZPK grounds in 2018, Anacamptis morio could post-trial already be detected: Table 1. Establishing again populations of native orchids is a long-term project. But in perhaps two years it will hopefully be possible to show to the visitors of the ZPK the first attractive flowers of reintroduced native orchids. Even more important: the ZPK site is supposed to spread the tiny orchid seeds to the few remaining natural sites outside the ZPK and thus revitalize their populations. Because in most cases the remaining orchid sites are isolated from each other and due to the missing genetic exchange, the small populations of orchids that left over tend to genetic depression and can hardly survive in the long run.

The main beneficiaries of the increased biodiversity and ecological enrichment measures are small animals, especially insects, which account for a number of antagonists of pests, but also birds [7,8,13]. Whereas ecosystem services, especially related to biological pest control, could be improved by appropriate
habitat management, late mowing and the absence of fertilizer was also favoring invasive neophytes, which have to be observed and controlled carefully. The eleven native species of wild roses, on the other hand, attract insects. Aphids on roses are in spring the main food of populations of beneficials, such as ladybugs and hoverflies. But the wild roses are not only attractive for insects - they deploy to visitors a whole lot of diversified attractive blooms (Table 1).

**Table 1:** Increasing the biodiversity by augmenting the number of plant species at the ZPK site.

| Examples | Common Name | Latin Name | Impact on Farming | Cultural Impact |
|----------|-------------|------------|-------------------|-----------------|
| 1. Species of Native Wild Roses | Field briar | *Rosa agrestis* | Roses are important hosts of aphids and those an essential food for enemies of crop pests (often a minimum factor to the development of the beneficial insects in spring) | | The diversity of native species of roses is appreciated by small animals as well as human visitors of an art center. The aesthetics of almost forgotten nuances of frail, gentle, sometimes slightly scenting flower leaves of native roses is stunning. |
| Corymb rose | *Rosa corymbifera* | | | |
| Scented elliptical-leaved rose | *Rosa elliptica* | | | |
| Red-leaved rose | *Rosa glauca* | | | |
| Small-flowered rose | *Rosa micrantha* | | | |
| Mountain rose | *Rosa montana* | | | |
| Alpine rose | *Rosa pendulina* | | | |
| Sweet briar | *Rosa rubiginosa* | | | |
| White-wooly rose | *Rosa tomentosa* | | | |
| Apple rose | *Rosa villosa* | | | |
| Dog rose | *Rosa vosagiaca* | | | |
| 2. Species of Native Wild Orchids | Common Twayblade | *Neottia ovata* | No obvious direct impact on farming. But measures to keep orchids alive – e.g. low nutrient meadows, late mowing with cutter bars- are essential for high diversity, increasing resilience of agro-ecosystems | Orchids are a beautiful and very vulnerable part of natural ecosystems and dependant from sophisticated symbioses. Thus, to keep alive the highly endangered native species is simply showing respect to nature and its beauty. To reintroduce them in places like the ZPK should support the distribution of seeds and the ability of multiplication of still present small orchid numbers in short distances outside the ZPK and thus reduce the risk of further genetic depression. |
| Green-veined orchid | *Anacamptis morio* | | | |
| Been orchid | *Ophrys apifera* | | | |
| Soldier orchid | *Orchis militaris* | | | |
| Lesser butterfly-orchid | *Platanthera bifolia* | | | |
| Early purple orchid | *Orchis mascula* | | | |
| Lizard orchid | *Himantoglossum hircinum* | | | |
| Fly orchid | *Ophrys insectifera* | | | |
| Late spider orchid | *Ophrys holosericea* | | | |
| 3. Underseeding Oil Seed Rape with Frost-Sensitive Mixtures | Beerseem clover | *Trifolium alexandrinum* | | Beside native plants also traditional breeded crops can increase biodiversity, enrich the ecosystem and attract pollinators, e.g. wild bees and butterflies. -- High levels of vegetation diversity can eventually also be reflected in a high diversity of soil meso- and macrofauna. On 20th October 2018 a world premiere took place: Visitors of the ZPK could listen in the installation of the artist and scientist Marcus Maeder for the first time how soil life sounds. |
| Ramtil | *Guizotia abyssinica* | | | |
| Buckwheat | *Fagopyrum esculentum* | | | |
| Common vetch | *Vicia sativa* | | | |
| Lentil | *Lens culinaris* | | | |
| Grass pea | *Lathyrus sativus* | | | |
The regular vegetation analyses at different locations between 2015 and 2019 showed a net increase in the number of species for all locations at the ZPK that were included in the study. This is encouraging, because these surfaces are which were recultivated after the excavations necessary for the construction of the ZPK in 2005. As part of the Sounding Soil project by Marcus Maeder [24], artist and scientist, a recording of the mesofauna and macrofauna (size between 0.2 and about 20mm) shows a very high activity in those soils of the ZPK, that have a highly diverse vegetation. The world premiere of the sound installation [24] took place on October 20, 2018 at the ZPK (Table 1).

Agricultural products: influence of production on nature and vice versa

The products harvested at the ZPK are certified by the label «IP-Suisse» for a sustainable production. New creative approaches will stimulate farmers and urban gardeners for alternative practices that are more sustainable (Table 2). In 2019, the cultivation of Neglected and Underutilized Species (NUS, Figure 6) was greatly expanded at the ZPK in collaboration with R. Zollinger [25] of Hortiplus Ltd. A ready blend is marketed in Switzerland under the name “Colza Fix”. Similar mixtures are applied for underseeding bread wheat for additional fodder production (Trifolium hybridum, Medicago lupulina, Trifolium repens, Lolium perenne, Daucus glomerata), for under-seeding corn for additional fodder production (Small-leaved Trifolium repens, Lolium perenne 4n, Daucus glomerata) or only for soil cover (Trifolium hybridum, Trifolium incarnatum, Trifolium repens, Medicago lupulina).

Very important for the conservation of the gene pool are also the Crop wild relatives CWR [20]. Therefore, on the demonstration plots of the ZPK such relatives to the main crops are also grown (beside cereal crops e.g. Aegilops spp).
Table 3: Butterflies around the Zentrum Paul Klee (ZPK). The host plants are essential for caterpillars (right column) and the presence of flowering nectariferous plants during the whole growing season is essential for adult butterflies. According to [27] in the same metropolitan region of Berne seven other diurnal butterfly species can sometimes be present and twelve other day butterfly species can be occasional visitors [13]. In addition to the more closely observed diurnal butterflies we also observed butterflies of the families Noctuidae, Geometridae, Zygaenidae and Aegeriidae. ++very many; +Many; *Migratory butterflies.

| Year | Crop Description | Fodder plants of caterpillars |
|------|------------------|-------------------------------|
| 2016 | Beta-glucan barley, cultivar Waxyma (Health Claim against LDL-cholesterol) | Cereals and pseudocereals. Legumes as own crops, under-sowing or mixed crops. Honey; beta-glucan oatmeal; lentils; fruit brandy |
| 2017 | Oats for human (not animal) food, cultivar Canyon | Oats as ‘sanitizing crop’; mixed crops; biodiversity. Honey; oatmeal for “Bircher muesli”; Bonus from label “IP-Suisse” |
| 2018 | Oilseed-rape, hybrids and lines; undersowing [19]; add early flowering bird-rape to lure pests away from crop [18,19] | Oilseed species, from hemp to poppy (Papaver somniferum); ancient Swiss poppy origins. Honey; cold-pressed rapeseed oil; poppy seeds (Papaver somniferum) for bakery |
| 2019 | Pure spelt, cultivar Ostro; enhancing on borders plants essential for butterflies | "Field to fork" food chain; NUS: rare root vegetables; Mürpa. Pure spelt flour; seeds of rare species (Neglected and Underutilized Species NUS) |

| Butterfly family | Fodder plants of caterpillars |
|------------------|-------------------------------|
| Swallowtail      | Papilio machaon              |
| Large cabbage white | Pieris brassicae            |
| Small cabbage white | Pieris rapae                 |
| Green-veined white | Pieris napi                  |
| Clouded yellow   | Colias crocea                |
| Pale clouded yellow | Colias hyale*               |
| European peacock | Inachis io                   |
| Painted lady     | Cynthia cardui, Syn. Vanessa cardui* |
| Small tortoises shell | Aglais urticae            |
| Queen of Spain fritillary | Issoria lathonia          |
| Marbled white    | Melanargia galathea          |
| Meadow brown     | Maniola jurtina              |
| Small heath      | Coenonympha pamphilus        |
| Wall brown butterfly | Lasionotra megera          |
| Common blue      | Polyommatus icarus++         |
| Mazarine blue    | Cyaniris semiargus+          |
| Short-tailed blue | Cupido argiades              |
| Little blue      | Cupido minimus               |
| Small skipper    | Thymelicus sylvestris        |
Figure 6: Salsify or “vegetable oyster” (*Tragopogon porrifolius*) is a Neglected Underutilized Species (NUS) and considered as part of the cultural heritage. It is not only appreciated for the delicious dishes that can be prepared from its roots but also for the beautiful flowers.

Normally the ZPK grounds are frequented by many diurnal butterflies, which from their graceful flight seem to celebrate one side of being, that is the lightness (Figure 8). Around the ZPK between 2016 and 2019 we could regularly observe 19 different diurnal butterfly species. According to the entomological expert Wymann [27] seven more species can sometimes be observed in the metropolitan area of Berne and 12 more species are considered as occasional visitors: These species are described in [13]. Species that are still missing may eventually be favored with specific host plants that will feed their caterpillars (Table 3). However, it would be even more essential to improve the favoring conditions for butterflies also in a broader area [7,8].

Figure 7: If arable pansies (*Viola arvensis* and *V. tricolor*) are missing at the edge of the cereal field, certain butterflies, such as the Queen of Spain fritillary *Issoria lathonia* (Table 3), cannot develop. Many butterflies can coexist with crops and both can benefit from each other. Butterflies are important pollinators and basic for a diverse flora and vice-versa.
Given that butterflies can be considered as bio-indicators same as honeybees and wild bees; it can be concluded that if the butterflies are fine, agriculture is on a good ecological path. However, a proliferation of individual species such as the Painted Lady (Cynthia cardui, Syn. Vanessa cardui) is undesirable, because mass populations of caterpillars can damage crops, e.g. soybeans. The “Agri-culture-Day” of June 29, 2019, was dedicated to butterflies. Whereas the ZPK is usually frequented by lots of butterflies, on this day, unfortunately only few showed up. That was due to the unusually high temperature of 33 degrees Celsius – both quite heavy for visitors and apparently hindering many species of butterflies to fly. How this might be linked with the type of (Agro-) economy could be a theme for a future “Agri-culture day” (Figure 8).

**Figure 8:** Butterflies can be considered as bio-indicators (cf. text). When different species of the family Lycanidae occur in significant populations, this is a good sign. Here an example of this family, the Common blue (Polyommatus icarus) can be seen at the edge of the South hill building of the ZPK – above the male, below the female.

**Conclusion**

We have presented a general review of the project FRUCHTLAND (Fertile land) and introduced a new approach for an Agri-Culture that is integrative and participatory, including science, arts, practical approaches and society. A detailed presentation of the concept and important results of the first five years of the project – highlighted from the art and agriculture side – is planned to be published later this year.

**Perspectives**

As wide an audience as possible should be made aware in an effective but also exciting way of key issues of our time related to nature, culture and agriculture. The visitors of the ZPK are stimulated by different means of the arts as well as science for fundamental questions of today’s life. They are invited to reflect our behavior and to arrive at their own findings and conclusions. For burning problems of our time, such as the threat to the global biosphere, the insect extinction [28,29], the climate change, the needed food for an increasing world population - valuable approaches can be expected, if the different disciplines are acting from their different perspectives, but together in a collaborative way and with mutual respect. The inclusion of all interested and affected persons may allow to take into account all important questions and perspectives. It is to be hoped that the ZPK will continue to provide an important platform and a reflection room for inter- and transdisciplinary approaches including the arts, nature, culture and agriculture and thus contribute to an inclusive and participatory Agri-Culture. May the interdisciplinary center ZPK further be used in a lively way.

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**Conflict of Interest**

The authors declare that they have no conflict of interest.
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