

Microbiology and design research  
17.09.2009  
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[Bast fibres  
by short-fibre  
methods

- towards an environmentally-  
conscious production  
of flax and hemp]

## Textile design DA/TaiK

- 1991 Päikki Priha : Pyhä kaunistus. Kirkkotekstiilit Suomen Käsiyön Ystävien toiminnassa 1904-1950
- 1996 Marjo Wiberg : The Textile Designer and the Art of Design. On the Formation of a Profession in Finland
- 2008 Leena Lukkarinen : Kierrätysmateriaalin käyttö nykytekstiiliteollisuudessa. Tulkintoja kierrätetystä tekstiilimateriaalista naiseuden ja arjen valossa
- 2008 Tiina Härkäsalmi: Runkokuituja lyhytkuitumenetelmin. Kohti pellavan ja hampun ympäristöystävällistä tuotteistamista

## Bast fibre research

- Natural scientist - raw material
- Fibre technologists - processing
- ??? Textile designer - productization

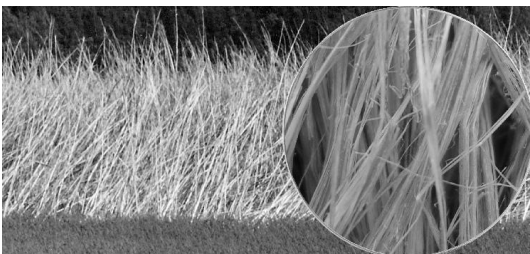
Background

- Ecology
- Tradition

Objectives

- The innovative usage of bast fibres
- To explore the suitability of flax elementary fibres in new textile and technical applications
- To create prerequisites for product design and productization

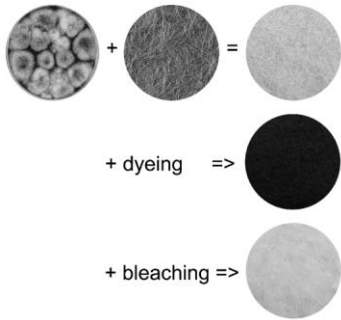
## Fieldwork



## Developing of Fusart®-method

- Finding fungus: aesthetical perception
- Isolation and cultivation
- Treatment experiments
- Co-operators
- Patent PCT/FI2009/050059

### The principle of Fusart®-method



### Production model

- Raw material: linseed fibre
- Harvesting
- Decortication
- Cottonization with Fusart®-method
- Carding and sliver
- Rotor spinning
- Products?

