

White Adam and Black Eve

A 1770 painting at the Old Pharmacy, Calw, Southern Germany, and the scientific discourse of the time on heredity, skin colour, variation and race

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Figure 1. *Tiere und Menschen*

Appendix

Table 1: The Gärtner-Gmelin family, education and international connections

1st generation

Achatius (I) Gärtner (1662-1728)²

- “classic” education as pharmacist, working for years in several pharmacies in Southern Germany
- access to pharmacy in Calw via planned marriage with Regina E. Sigwart
- marriage with daughter of mayor, Maria E. Mayer
- building the house in 1700
- trading medical plants from West- and East Indies

highly respected, best pharmacy in Württemberg, invited to join Reich’s delegation of pharmacists to Spain, but declined

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2nd generation

Sons of Achatius (I) and Maria Mayer

Achatius (II) Gärtner (1699-1742) ³

- married to Margarethe Uber, Gmelin family, Tübingen
- education in pharmacy of father and several pharmacies in Germany, the Netherlands and England

Joseph (I) Gärtner (1707-1731) ⁴

- studied medicine in Tübingen, France, England, the Netherlands (with Borhaeve, Ruysch *et al.*)

² Armin Wankmüller, "Vorwort", *Beiträge zur Württembergischen Apothekengeschichte* 1 (1950): 5-21, on 17-19; Peter Hartwig Graepel, *Beiträge zur Geschichte der Alten Apotheke Calw. Die Privilegien der Alten Apotheke Calw. Der Briefwechsel von Achatius und Johann Georg Gärtner mit Johann Ambrosius Beurer*. Gladenbacher Beiträge zur Geschichte des deutschen Apothekenwesens, n° 2 (2013): 13, 37-50.

³ Peter Hartwig Graepel, *Beiträge zur Geschichte der Alten Apotheke Calw. Die Privilegien der Alten Apotheke Calw. Der Briefwechsel von Achatius und Johann Georg Gärtner mit Johann Ambrosius Beurer*. Gladenbacher Beiträge zur Geschichte des deutschen Apothekenwesens, n° 2 (2013): 45-50.

⁴ Peter Hartwig Graepel, *Die Gärtner-Gedenkstätte im Museum der Stadt Calw. Bahnbrechende Arbeiten auf dem Gebiet der Früchte- und Samenforschung, der Blütenbiologie und der Pflanzenbastardierung*, Kleine Reihe, vol. 3 (Calw: Museum der Stadt Calw, 1991): 10-11.

3rd generation

Sons of Achatius (II) and Margarethe Uber

Achatius (III) Gärtner (1724-1770) ⁵

- education in pharmacy of Johann Gaum and Johann Konrad Gmelin, Tübingen
- studied in England and Leiden (Pieter van Musschenbroeck (1692-1761), Adrian van Royen (1704-1779) and Bernhard Siegfried Albinus (1697-1770), Hieronymus D. Gaub taught medicine in Boerhaave tradition)
- studied medicine in Tübingen, 1757 viva with Philipp Friedrich Gmelin (1721-1768), brother of Johann Georg Gmelin (1709-1755), explorer of Siberia, professor at Imperial Academy of the Sciences, Petersburg, after 1749 professor for botany, medicine and chemistry at Tübingen University, acquainted with Carl v. Linné; cousin of Samuel Gottlieb Gmelin (1744-1774), who died during his Siberia expedition
- builds new laboratory, Naturalienkabinet, knows work of Ruysch and J. Gessner
- experiments with pigment Prussian blue

Johann Georg Gärtner (1727-1755) ⁶

- studied pharmacy, was supposed to take over the pharmacy

Son of Joseph (I) Gärtner

Joseph (II) Gärtner (1732-1791) ⁷

- studied medicine in Tübingen and Göttingen (Albrecht v. Haller), in Italy, France, England; stayed in Holland and England.
- Fellow of the Royal Society, London
- 1763 prosector of anatomy, Tübingen university
- 1768 professor for Botany and Natural History at Imperial Academy of the Sciences, Petersburg
- 1770 back to Calw, inherits Achatius' (III) fortunes

4th Generation

Son (out of wedlock) of Joseph (II) Gärtner

Carl Friedrich von Gärtner (1772-1850) ⁸

- became famous botanist, precursor of G. Mendel, travelled to Petersburg, Leiden and other European places,
- access to plant specimen from Japan, East India, South Africa *et al.*

⁵ Peter Hartwig Graepel, *Beiträge zur Geschichte der Alten Apotheke Calw. Die Privilegien der Alten Apotheke Calw. Der Briefwechsel von Achatius und Johann Georg Gärtner mit Johann Ambrosius Beurer*. Gladenbacher Beiträge zur Geschichte des deutschen Apothekenwesens, n° 2 (2013): 51-58, 74, 74-85.

⁶ Peter Hartwig Graepel, *Beiträge zur Geschichte der Alten Apotheke Calw. Die Privilegien der Alten Apotheke Calw. Der Briefwechsel von Achatius und Johann Georg Gärtner mit Johann Ambrosius Beurer*. Gladenbacher Beiträge zur Geschichte des deutschen Apothekenwesens, n° 2 (2013): 51-58.

⁷ Graepel, *Gärtner-Gedenkstätte*, 7, 12-18.

⁸ Peter Harwig Graepel, "Joseph Gärtner und Carl Friedrich von Gärtner", in Albrecht (ed.), *Schwäbische Forscher*: 59-66. - Building on the work of Kölreuter, Carl Friedrich also experimented extensively on fertilisation processes and published the results in his nearly 800 pp. book in 1849.