

*Ulmus carpinoides* (Goeppert) Iljinskaja in Takhtajan 1982 (Ulmaceae)

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**Leaf description**

- **morphology:**  
**organisation:** simple; **petiole:** leaves petiolate, petiole robust, up to 10mm long; **shape:** lamina ovate to oblong, 43–127 mm long, 25–48 mm broad; **leaf base:** asymmetric, base shape cuneate to cordate; **leaf apex:** apex angle acute, apex shape attenuate; **margin:** double toothed, irregularly serrate; main teeth up to 1mm, teeth apices acute, sinus acute; **1°-vein framework:** pinnate, mid vein robust; **2°-vein framework:** secondaries craspedodromous, 12–18 secondaries alternating or opposed with distance of 2–4 mm, intersecondaries rarely present; **3°-vein framework:** ?
  - **cuticle:**  
not specified
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**Paleocology**

- **habitat:** ?
  - **vegetation type:** ?
  - **life form:** ?
  - **foliage persistence:**
  - **flower ecology (pollination):** ?
  - **fruit ecology (dispersal):** ?
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**Stratigraphy / Distribution**

- **stratigraphy:** Upper Oligocene to Upper Miocene
  - **distribution:** ?
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**Miscellaneous**

- **synonyms:** –
  - **modern relationship:** ?
  - **remarks:** ?
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28 macroscopic leaf traits are stored in *Digiphyll*

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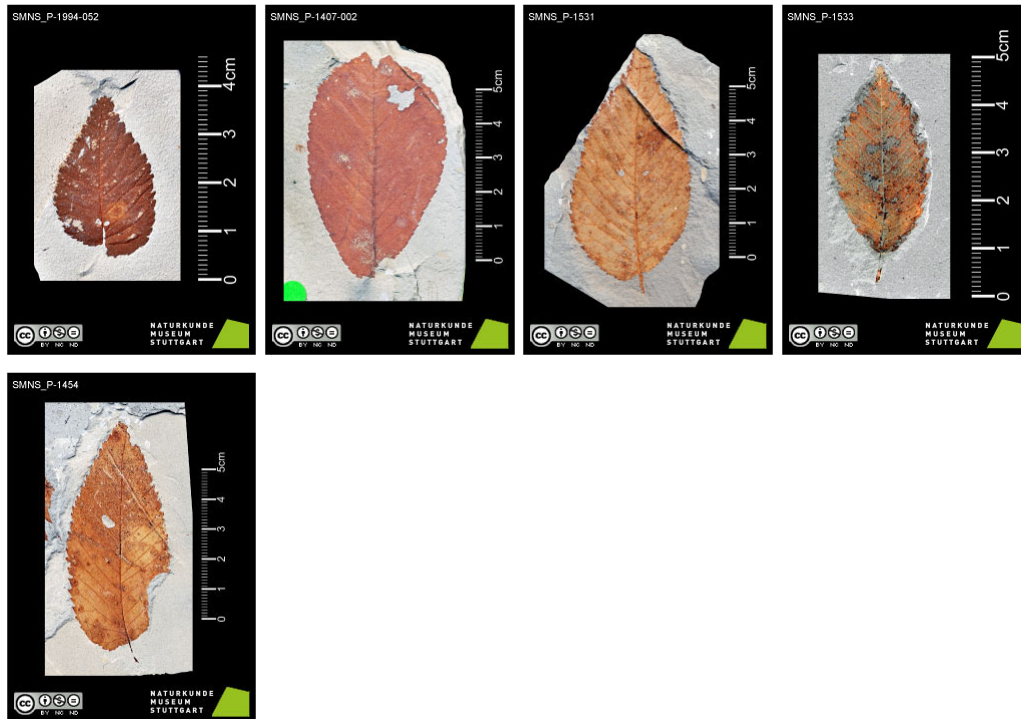
#	trait code	trait: characters state
1	A-1.2	petiole: present
2	A-1.2.2	petiole, present: long
3	A-2.1	leaf organisation: simple
4	A-3.1	leaf shape: elliptic
5	A-3.3	leaf shape: ovate
6	A-3.4	leaf shape: oblong
7	A-4.1	leaf base angle: acute

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#	trait code	trait: charcters state
8	A-4.2	leaf base angle: obtuse
9	A-5.1	leaf base shape: without basal extension
10	A-5.1.1	leaf base shape, without basal extension: cuneate (straight)
11	A-5.1.2	leaf base shape, without basal extension: rounded
12	A-6.1	leaf apex angle: acute
13	A-7.1	leaf apex shape: attenuate (straight)
14	A-7.2	leaf apex shape: acuminate
15	A-8.2	leaf margin: toothed
16	A-8.2.2	leaf margin, toothed: dentate
17	A-9.1.1	leaf teeth, order number of teeth: simple order (first order)
18	A-9.2.1	leaf teeth, tooth density: dense
19	A-9.3.1	leaf teeth, tooth size: small
20	A-9.4.1	leaf teeth, tooth apex shape: acute
21	A-9.5.1	leaf teeth, tooth sinus shape: acute
22	B-1.1	primary vein framework: pinnate
23	B-2.1	secondary vein framework: 2° veins reach margin
24	B-2.1.1	secondary vein framework, 2° veins reach margin: craspedodromous
25	B-3.2	intramarginal vein: absent
26	B-4.2	intersecondaries: absent
27	B-5.1	tertiary vein framework: percurrent
28	B-5.1.1	tertiary vein framework, percurrent: opposite

For a detailed description of the leaf traits see menu *Manuals*.

### Fossil images



## References

- **Eberlein M. (2014):** Bestimmungs- und Verbreitungsatlas der Tertiärflora Sachsens - Angiospermenblätter und Ginkgo. – *Dissertation zur Erlangung des akademischen Grades, Technische Universität Dresden, Fakultät Umweltwissenschaften*: 144 p.

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