

Myrica obliquifolia Kovar-Eder 2016 (Myricaceae)

Leaf description

- **morphology:**
organisation: simple; **petiole:** present, up to 18 mm long; **shape:** ovate, oblong to elliptic, somewhat asymmetrical; **leaf base:** base angle acute, base shape cuneate to somewhat convex; **leaf apex:** apex angle acute; apex shape straight, long attenuate; **margin:** entire near the base of the lamina but remotely dentate in the upper half or two thirds, with tiny, widely spaced teeth, tooth apex acute, sinus acute or rounded; **1°-vein framework:** pinnate; **2°-vein framework:** semicraspedodromous or craspedodromous; **3°-vein framework:** unknown.
 - **cuticle:**
adaxial cuticle: medium thick; anticlines slender, straight to rounded, cell size on both sides similar, between 18 to 45 µm, trichome bases scattered, foot two-celled, the outer wall (poral rim) strongly thickened, oval to 8-shaped, inner diameter (excluding the poral rim) about 15–20 µm, joint wall delicate, surrounding base cells hardly modified, trichome head peltate, shield-like, up to at least 105 µm across; **abaxial cuticle:** medium thick; stomatal complexes anomocytic, stomata broad elliptic to roundish, 20–26 µm long, front cavity elliptic to roundish, poles acute, stomatal ledges weakly cutinised.
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Paleocology

- **habitat:** ?
 - **vegetation type:** broad-leaved sclerophyllous evergreen forests
 - **life form:** tree or shrub
 - **foliage persistence:** probably evergreen leaves
 - **flower ecology (pollination):** wind-pollinated (anemophilous)
 - **fruit ecology (dispersal):** probably animal-dispersed (endozoochorous)
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Stratigraphy / Distribution

- **stratigraphy:** Early Oligocene
 - **distribution:** So far, this taxon is known only from the flora of Rauenberg/Frauenweiler near Heidelberg (Germany).
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Miscellaneous

- **synonyms:** –
 - **modern relationship:** No closer correlation than to the genus level possible.
 - **remarks:** The assignment to the genus *Myrica* is based on the cuticular features (2-celled bases of peltate trichomes) which are characteristic for *Myrica*. *M. obliquifolia* differs from other *Myrica* species by its oblique shape of the lamina.
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25 macroscopic leaf traits are stored in *Digiphyll*

#	trait code	trait: charcters 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-3.4	leaf shape: oblong
6	A-4.1	leaf base angle: acute
7	A-5.1	leaf base shape: without basal extension
8	A-5.1.1	leaf base shape, without basal extension: cuneate (straight)
9	A-6.1	leaf apex angle: acute
10	A-7.1	leaf apex shape: attenuate (straight)
11	A-8.2	leaf margin: toothed
12	A-8.2.2	leaf margin, toothed: dentate
13	A-9.1.1	leaf teeth, order number of teeth: simple order (first order)
14	A-9.2.2	leaf teeth, tooth density: not dense
15	A-9.3.1	leaf teeth, tooth size: small
16	A-9.4.1	leaf teeth, tooth apex shape: acute
17	A-9.5.1	leaf teeth, tooth sinus shape: acute
18	A-9.5.2	leaf teeth, tooth sinus shape: rounded
19	B-1.1	primary vein framework: pinnate
20	B-2.1	secondary vein framework: 2° veins reach margin
21	B-2.1.1	secondary vein framework, 2° veins reach margin: craspedodromous
22	B-2.1.2	secondary vein framework, 2° veins reach margin: semicraspedodromous
23	B-3.2	intramarginal vein: absent
24	B-4.2	intersecondaries: absent
25	B-5.2	tertiary vein framework: reticulate

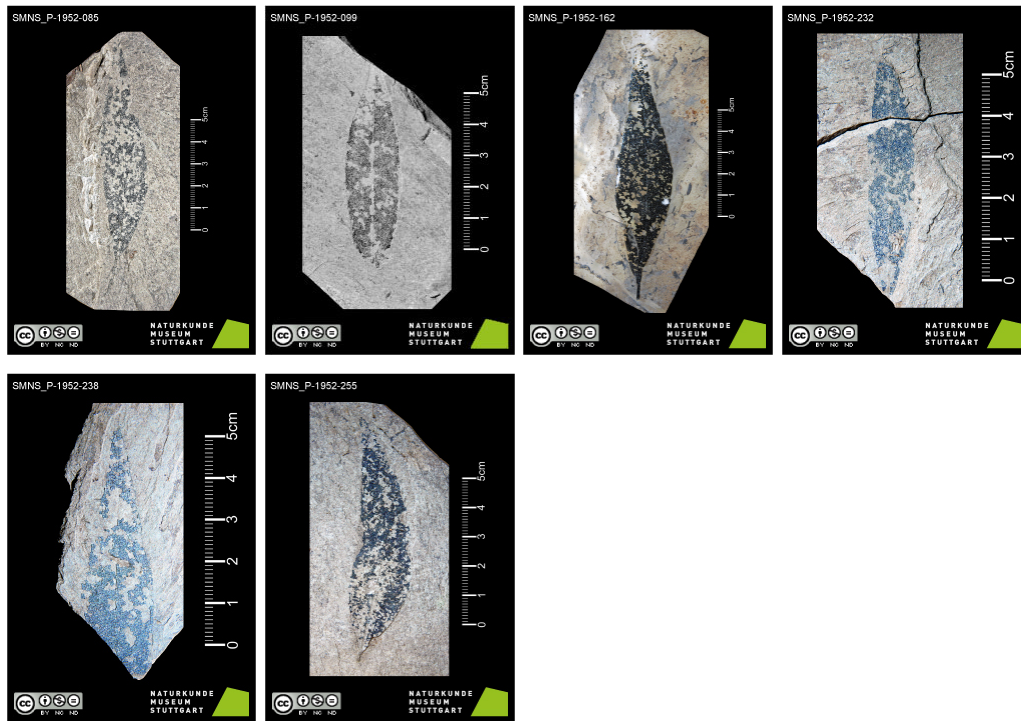
For a detailed description of the leaf traits see menu *Manuals*.

14 microscopic leaf traits are stored in *Digiphyll*

#	trait code	trait: charcters state
1	C-1.2	adaxial cuticle, thickness: medium
2	C-3.1	adaxial cuticle, anticline-course: straight
3	C-3.2	adaxial cuticle, anticline-course: rounded
4	C-6.2	adaxial cuticle, trichome: present
5	C-9.1	adaxial cuticle, trichome base, poral rim: thickened
6	C-10.2	adaxial cuticle, trichome base, foot: two-celled
7	C-12.3.4	adaxial cuticle, trichome head, one-celled: peltate
8	E-1.2	abaxial cuticle, thickness: medium
9	E-14.1	abaxial cuticle, stomatal complex type: anomocytic
10	E-18.1	abaxial cuticle, stoma shape: roundish
11	E-18.2	abaxial cuticle, stoma shape: elliptic
12	E-20.1	abaxial cuticle, stomatal ledges: weakly cutinised
13	E-21.1	abaxial cuticle, front cavity: roundish
14	E-21.2	abaxial cuticle, front cavity: elliptic

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

Fossil macroscopic images



References

- **Kovar-Eder J. (2016):** Early Oligocene plant diversity along the Upper Rhine Graben: The fossil flora of Rauenberg, Germany. – *Acta Palaeobotanica*, 56/2: 329-440.

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