

## Сведения об официальных оппонентах:

**Соколов Дмитрий Дмитриевич**

доктор биологических наук (2004г.), по специальности 03.00.05 – «Ботаника»

Федеральное государственное бюджетное образовательное учреждение высшего образования «Московский государственный университет имени М.В. Ломоносова», профессор, член-корреспондент РАН, заведующий кафедрой высших растений.

Основные публикации в рецензируемых журналах за последние 5 лет:

1. **Sokoloff D.D.**, Fomichev C.I., Rudall P.J., Macfarlane T.D., Remizowa M.V. Evolutionary history of the grass gynoeceum // *Journal of Experimental Botany*. – 2022. – Vol. 73. P. 4637–4661. <https://doi.org/10.1093/jxb/erac182>
2. Koblova S.D., Rudall P.J., **Sokoloff D.D.**, Stevenson D.W., Remizowa M.V. Flower and Spikelet Construction in Rapateaceae (Poales)// *Frontiers in Plant Science*. – 2022. – Vol. 12. – 813915. <https://doi.org/10.3389/fpls.2021.813915>
3. Severova E., Kopylov-Guskov Y., Selezneva Y., Karaseva V., Yadav S. R., **Sokoloff D.** Pollen Production of Selected Grass Species in Russia and India at the Levels of Anther, Flower and Inflorescence// *Plants*. – 2022. – Vol. 11, № 3. – 285. <https://doi.org/10.3390/plants11030285>
4. **Sokoloff D.D.**, El E.S., Remizowa M.V. Shoot development in members of an ancient aquatic angiosperm lineage, Ceratophyllaceae: a new interpretation facilitates comparisons with Chloranthaceae// – *Symmetry*. – 2022. – Vol. 14, № 7. – 1288. <https://doi.org/10.3390/sym14071288>
5. **Sokoloff D.D.**, Remizowa M.V. Diversity, development and evolution of archegonia in land plants// *Botanical Journal of the Linnean Society*. – 2021. – №3. – 380–419. <https://doi.org/10.1093/botlinnean/boaa077>
6. Kramina T.E., Lysova M.V., Samigullin T.H., Schanzer I.A., Özbek M.U., **Sokoloff D.D.** Phylogenetic placement and phylogeography of large-flowered *Lotus* species (Leguminosae) formerly classified in *Dorycnium*: evidence of pre-Pleistocene differentiation of Western and Eastern intraspecific groups// *Plants*. – 2021. – Vol. 10, № 2. – 260. <https://doi.org/10.3390/plants10020260>
7. **Sokoloff D.D.**, Remizowa M.V. The use of plant ontologies in comparative and evolutionary studies should be flexible// *American Journal of Botany*. – 2021. – Vol. 108, № 6. – 909-911. <https://doi.org/10.1002/ajb2.1692>
8. Fomichev C.I., Macfarlane T.D., Valiejo-Roman C.M., Samigullin T.H., Degtjareva G.V., Briggs B.G., **Sokoloff D.D.** Two centuries from species discovery to diagnostic characters:

- molecular and morphological evidence for narrower species limits in the widespread SW Australian *Anarthria gracilis* complex (Restionaceae s.l./Anarthriaceae, Poales)// PeerJ. – 2021. – Vol. 9. – e10935. <https://doi.org/10.7717/peerj.10935>
9. El E.S., Remizowa M.V., **Sokoloff D.D.** Developmental flower and rhizome morphology in *Nuphar* (Nymphaeales): an interplay of chaos and stability// Frontiers in Cell and Developmental Biology. – 2020. – Vol. 8. – 303. <https://doi.org/10.3389/fcell.2020.00303>
10. Nuraliev M.S., Remizowa M.V., **Sokoloff D.D.** Flower structure and development in Vietnamese *Sciaphila* (Triuridaceae: Pandanales): refined knowledge of the morphological misfit family and implications for taxonomy// PeerJ. – 2020. – Vol. 8. – e10205. <https://doi.org/10.7717/peerj.10205>
11. **Sokoloff D.D.**, Remizowa M.V., El E.S., Rudall P.J., Bateman R.M. Supposed Jurassic angiosperms lack pentamery, an important angiosperm-specific feature// New Phytologist. – 2020. – №2. – 420–426. <https://doi.org/10.1111/nph.15974>
12. Fomichev C.I., Briggs B.G., Macfarlane T.D., **Sokoloff D.D.** Structure and development of female flowers in early-diverging restiids, *Anarthria*, *Lyginia* and *Hopkinsia* (Restionaceae s.l.): further evidence of multiple pathways of gynoeceum reduction in wind-pollinated lineages of Poales// Botanical Journal of the Linnean Society. – 2019. – Vol. 190, № 2. – 117–150. <https://doi.org/10.1093/botlinnean/boz011>
13. Manchester S.R., Golovneva L.B., **Sokoloff D.D.**, Friis E.M. Early eudicot reproductive structure: fruit and flower morphology of *Ranunculaecarpus* Samyl. from the Early Cretaceous of eastern Siberia// Acta Palaeobotanica. – 2018. – Vol. 58, № 2. – 121–133. <https://doi.org/10.2478/acpa-2018-0017>
14. **Sokoloff D.D.**, Remizowa M.V., Timonin A.C., Oskolski A.A., Nuraliev M.S. Types of organ fusion in angiosperm flowers (with examples from Chloranthaceae, Araliaceae and monocots) // Biologia Serbica. – 2018. – Vol. 40. – 16–46.

### **Кодрул Татьяна Михайловна**

кандидат геолого-минералогических наук (1995г.) по специальности 04.00.09. – Палеонтология и стратиграфия.

Федеральное государственное бюджетное учреждение науки Геологический институт Российской академии наук, ведущий научный сотрудник.

Основные публикации в рецензируемых журналах за последние 5 лет:

1. Herman, A.B, **Kodrul T.M.**, Perelygin A.V. Middle Eocene flora of the Bering Island (Komandor Islands, North-eastern Asia) // Review of Palaeobotany and Palynology. – 2022. – Vol. 297. – 104563. <https://doi.org/10.1016/j.revpalbo.2021.104563>
2. Wu X., Maslova N.P., **Kodrul T.M.**, Wu Y., Jin J. Fossil samaras of *Ailanthus* from South China and their phytogeographic implications // iScience – 2022. – Vol. 25, №8 – 104757. <https://doi.org/10.1016/j.isci.2022.104757>
3. Moiseeva M. G., **Kodrul T.**, Tekleva M.V., Maslova N.P., Wu X., Jin J. Fossil leaves of *Meliosma* (Sabiaceae) with associated pollen and an eupodid mite from the Eocene of Maoming Basin, South China // Frontiers in Ecology and Evolution. – 2022. – 9:770687. <https://doi.org/10.3389/fevo.2021.770687>
4. Maslova N.P., Sokolova A.B., **Kodrul T.M.**, Tobias A.V. Consortia of conifers and fungi in the Paleocene of the Amur Region, Russia // Paleontological Journal. – 2021. – Vol. 55, №12. – 1525–1553. <https://doi.org/10.1134/S003103012112008X>
5. Maslova N.P., **Kodrul T.M.**, Kachkina V.V. Leaves of *Ettingshausenia cuneifolia* (Bronn) Stiehler (Angiospermae) and associated carpels and stamens from the Turonian of Southern Kazakhstan // Paleontological Journal. – 2021. – Vol. 55, №10. – 1193–1214. <https://doi.org/10.1134/S0031030121100063>
6. Wu X., Zhang H., **Kodrul T.M.**, Maslova N.P., Jiang S., Yin Q., Quan C., Jin J. First Fossil *Fokienia* (Cupressaceae) in South China and its Palaeogeographic and Palaeoecological Implications // Frontiers in Earth Sciences. – 2021. – 9:709663. <https://doi.org/10.3389/feart.2021.709663>
7. Maslova N.P., Karasev E.V., Xu S., Spicer R.A., Liu X., **Kodrul T.M.** Spicer T.E.V., Jin J. Variations in morphological and epidermal features of shade and sun leaves of two species: *Quercus bambusifolia* and *Q. myrsinifolia* // Annals of Botany. – 2021. – Vol. 108. –1441–1463. <https://doi.org/10.1002/ajb2.1706>
8. Головнева Л.Б., **Кодрул Т.М.**, Бугдаева Е.В. Позднемиеловые флоры Зее-Буреинского бассейна// Палеоботаника. – 2020. – Т. 11. – 5–47. <https://doi.org/10.31111/palaeobotany/2020.11.5>
9. Han M., Wu X.-K., Tu M, **Kodrul T.M.**, Jin J.-H. Diversity of Menispermaceae from the Paleocene and Eocene of South China // Journal of Systematics and Evolution. – 2020. – Vol. 58, №3. – 354–366. <https://doi.org/10.1111/jse.12499>
10. Wu XK, Liu XY, **Kodrul TM**, Quan C, Jin JH. *Dacrycarpus* pattern shedding new light on the early floristic exchange between Asia and Australia // National Science Review. 2019. Vol. 6, №6. – 1086–1090. <https://doi.org/10.1093/nsr/nwz060>

11. Moiseeva M.G., **Kodrul T.M.**, Herman A.B. Early Paleogene Boguchan flora of the Amur Region (Russian Far East): Composition, age and palaeoclimatic implications // Review of Palaeobotany and Palynology. – 2018. – Vol. 253. – 15–36.  
<https://doi.org/10.1016/j.revpalbo.2018.03.003>
12. Maslova N.P., Sokolova A.B., Vasilenko D.V., **Kodrul T.M.**, Tobias A. V. Endophytic micromycetes on the leaves of the genus *Taxodium* Richard (Cupressaceae) from the lower Paleocene of the Amur Region // Paleontological Journal. – 2018. – Vol. 52. – 1473–1479.  
<https://doi.org/10.1134/S0031030118120134>
13. Maslova N. P., Karasev E.V., **Kodrul T.M.**, Spicer R.A., Volkova L. D., Spicer T.E.V., Jin J.H., and Liu X.Y. Sun and shade leaf variability in *Liquidambar chinensis* and *Liquidambar formosana* (Altingiaceae): implications for palaeobotany // Botanical Journal of the Linnean Society. – 2018. – Vol. 188. – 296–315.
14. **Kodrul T.**, Gordenko N., Sokolova A., Maslova N., Wu X. K., Jin J. H. A new Oligocene species of *Cunninghamia* R. Brown ex Richard et A. Richard (Cupressaceae) from the Maoming Basin, South China // Review of Palaeobotany and Palynology. – 2018. – Vol. 258. – P. 234–247.

#### Сведения о ведущей организации:

**Федеральное государственное бюджетное учреждение науки Палеонтологический институт им. А.А. Борисяка Российской академии наук.**

Сокращенное наименование организации: ПИН РАН

Место нахождения: г. Москва

Почтовый адрес: 117647 г. Москва, ул. Профсоюзная, д. 123

Телефон: 8 (495) 339–08–22

Адрес электронной почты: [admin@paleo.ru](mailto:admin@paleo.ru)

Адрес официального сайта в сети «Интернет»: <https://www.paleo.ru/>

Список основных публикаций сотрудников ведущей организации в рецензируемых научных изданиях за последние 5 лет, наиболее близкие к теме диссертации Золиной Анастасии Андреевны:

1. Wu X., Maslova N.P., Kodrul T.M., Wu Y., Jin J. Fossil samaras of *Ailanthus* from South China and their phytogeographic implications// iScience. – 2022. – 104757.  
<https://doi.org/10.1016/j.isci.2022.104757>

2. Bazhenova N. V., Wu X., Kodrul T. M., Maslova N.P., Tekleva M.V., Xu S., Jin J. *Pinus* from the upper Pleistocene of South China// *Frontiers in Ecology and Evolution*. – 2022. – in press. <https://doi.org/10.3389/fevo.2022.900687>
3. Maslova N.P., Karasev E.V., Xu S., Spicer R.A., Liu X., Kodrul T.M. Spicer T.E.V., Jin J. Variations in morphological and epidermal features of shade and sun leaves of two species: *Quercus bambusifolia* and *Q. myrsinifolia*// *Annals of Botany*. – 2021. – Vol. 108. –1441–1463. <https://doi.org/10.1002/ajb2.1706>
4. Maslova, N.P., Kodrul T.M., Kachkina V.V. Leaves of *Ettingshausenia cuneifolia* (Bronn) Stiehler (Angiospermae) and associated carpels and stamens from the Turonian of Southern Kazakhstan// *Paleontological Journal*. – 2021. – Vol. 55, № 10. – 1193–1214. <https://doi.org/10.1134/S0031030121100063>
5. Maslova N. P., Sokolova A. B., Kodrul T. M., Tobias A. V. Consortia of conifers and fungi in the Paleocene of the Amur Region, Russia// *Paleontological Journal*. – 2021. – Vol. 55, №12. –1525–1553. <https://doi.org/10.1134/S003103012112008X>
6. Wu, X. K., Zavalova, N. E., Kodrul, T. M., Liu, X. Y., Gordenko, N. V., Maslova, N. P., Quan, Ch., Jin, J. H. 2021. Northern Hemisphere megafossil of *Dacrycarpus* (Podocarpaceae) from the Miocene of South China and its evolutionary and paleoecological implications// *Journal of Systematics and Evolution*. – Vol. 59, № 2. – 352–374.
7. Moiseeva M.G., Kodrul T.M., Herman A.B. Early Paleogene Boguchan flora of the Amur Region (Russian Far East): composition, age and palaeoclimatic implications// *Review of Palaeobotany and Palynology*. – 2018. – Vol. 253. – 15–36. <https://doi.org/10.1016/j.revpalbo.2018.03.003>
8. Maslova N. P., Sokolova A. B., Vasilenko D. V., Kodrul T. M., Tobias A. V. Endophytic Micromycetes on the leaves of the genus *Taxodium* Richard (Cupressaceae) from the Lower Paleocene of the Amur Region// *Paleontological Journal*. – 2018. – Vol. 52, № 12. – 1473–1479. <https://doi.org/10.1134/S0031030118120134>