

# Edmundas Lekevičius

## CONTACT INFORMATION

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## EDUCATION AND ACADEMIC DEGREE

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2002 Vilnius University, Professor's title.  
1998 Vilnius University, Title of Associate Professor.  
1997 Institute of Ecology (Vilnius). Successfully defended post-doctoral (habilitation) work 'A Model of Adaptive Rearrangements on Community, Population, and Organism Levels'.  
1974 Institute of General Genetics (Moscow). Successfully defended PhD dissertation [candidate of sciences] "Studies on the regulation of the efficiency of ultraviolet mutagenesis in *Bacillus subtilis* cells".  
1971 – 1973 Institute of General Genetics (Moscow). Post-graduate student.  
1961 – 1962;  
1969 – 1969 Studies at Vilnius University. A diploma in biology.

## PROFESSIONAL EXPERIENCE

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2021 – until now **Affiliated Researcher**  
Nature Research Centre (Vilnius)  
1998 – 2013 **Professor**  
Vilniaus University  
1993 – 1997 **Deputy Director for Science, Research Fellow**  
Pedagogical Institute  
1991 – 1993 **Advisor**  
The Government of the Republic of Lithuania  
1984 – 1991 **Head of the Hydrobiology Laboratory**  
Institute of Zoology and Parasitology of the Lithuanian Academy of Sciences (later - Institute of Ecology)  
1977 – 1984 **Senior Research Fellow**  
Institute of Botany of the Lithuanian Academy of Sciences  
1974 – 1977 **Junior Research Fellow**  
Institute of Botany of the Lithuanian Academy of Sciences

## RESEARCH INTERESTS

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Areas of research: genetics of microorganism (experiments), ecological genetics (experiments), ecology (experiments, mathematical modelling), evolutionary theory (conceptual modelling), theoretical biology (conceptual modelling), scientific methodology.

## PUBLICATIONS

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### *Monographs:*

1. Lekevičius E. 1986. Elements of a General Adaptation Theory (in Russian). Vilnius: Science.
2. Lekevičius E. 2000; 2001. Gyva tik ekosistema: ne visai tradicinis požiūris į gyvybės evoliuciją (Only an Ecosystem is Alive: A Somewhat Non-traditional Approach to the Evolution of Life), (in Lithuanian). Monograph-essay. Vilnius: Vilnius University.
3. Lekevičius E. 2002. The Origin of Ecosystems by Means of Natural Selection. Vilnius: Institute of Ecology.
4. Lekevičius E. 2022. Biodiversity: Maintenance, Function, Origin, and Self-Organisation into Life-Support Systems. Springer Nature Switzerland AG.

### *Articles in peer-reviewed publications:*

1. Lekevičius E., Balčiūnas D. 1986. Polymorphism and complementarity in intraspecific relations: **Lekevičius E.**, Balčiūnas D. 1986. Polimorfizmas ir vidurūšinių santykių komplementariškumas: bandymai su dafnijomis (rusų klb.). – *Žurnal Obščei Biologii*, 47(2): 259–267.
2. Gurevičiūtė G., **Lekevičius E.**, Kontrimavičius V. 1989. Dafnijų polimorfinės populiacijos reakcija į sezoninius temperatūros svyravimus (rusų klb.). – *Doklady AN SSSR*, 306(1): 250–252.
3. **Lekevičius E.** 2003. Ekosistemų evoliucija: pagrindiniai etapai ir galimi mechanizmai (rusų klb.). – *Žurnal Obščei Biologii*, 64(5): 371–388.
4. **Lekevičius E.** 2006. The Russian paradigm in ecology and evolutionary biology: *pro et contra*. – *Acta Zoologica Lithuanica*, 16(1): 3–19.
5. **Lekevičius E.** 2009. Apie kai kurias analogijas tarp ekosistemų evoliucijos ir ekonomikos vystymosi: Nuo A. Smito ir Č. Darvino iki naujausių idėjų (rusų klb.). – L. E. Grinin, A. V. Markov and A. V. Korotaev (red). *Evoliucija: Kosminė, Biologinė ir Socialinė*. Maskva: Librokom: p. 226–260.
6. **Lekevičius E.** 2011. Ecological Darwinism or the preliminary answers to some crucial though seldom asked questions. – In: L. E. Grinin, A. V. Korotaev, R. L. Carneiro and F. Spier (eds). *Evolution: Cosmic, Biological, and Social*. Volgograd. Uchitel Publishing House: p. 101–121.
7. Ozolinčius R., **Lekevičius E.**, Stakėnas V., Galvonaitė A., Samas A., Valiukas D. 2014. Lithuanian forests and climate change: possible effects on tree species composition. – *European Journal of Forest Research*, 133: 51–60.
8. **Lekevičius E.** 2018. Bioįvairovė – kaip ir kodėl. I. Ieškant funkcinio paaiškinimo (rusų klb.). – *Žurnal Obščei Biologii*, 79: 201–220.
9. **Lekevičius E.** 2018. Bioįvairovė – kaip ir kodėl. II. Ieškant priežastinio paaiškinimo (rusų klb.). – *Žurnal Obščei Biologii*, 79: 221–236.

10. **Lekevičius E.** 2019. Ecological Darwinism or the preliminary answers to some crucial though seldom asked questions (Lekevičius 2011, reprinted). – In: L. Grinin, A. Korotaev (eds). *History and Mathematics: Big History Aspects*. Volgograd: Uchitel Publishing House, p. 100–121.
11. **Lekevičius E.** 2022. A brief sketch of the eco-Darwinian paradigm. – *SCIREA Journal of Biology*, 7(1): 1–10.

## **PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS**

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Project „Aukštos kvalifikacijos specialistų, atitinkančių valstybės ir visuomenės poreikius biologinių ir žemės gelmių išteklių naudojimo srityje, rengimo tobulinimas. BIOGEONAUDA-2“. **Author** (without co-authors) of the textbook for higher education studies „Ekologija: nuo individo iki biosferos“. 2013.

2010–2011 **Researcher** in the project of Research Council of Lithuania „Vietinių medžių rūšių ir jų populiacijų pažeidžiamumas, arealų kaita bei prognozės kintant klimatui“. LEK-17/2010. Three articles on the subject have been drafted and published.

## **PARTICIPATION IN THE STUDY PROCESS**

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### ***Lecturer and workshop leader (1998 – 2012):***

Lecture course: „General ecology”.	For biophysics and ecological biology undergraduates, 32 classroom hours / year.
Lecture course: „Ecology”.	For ecology undergraduates, 48 classroom hours / year.
Lecture course: „Ecosystem evolution”.	For ecology postgraduates, 80 classroom hours / year.
Lecture course: „Adaptation theory”.	For ecology postgraduates, 80 classroom hours / year.

### ***Supervision of PhD students:***

Research field: 03.00.18. Hydrobiology

Giedra Gurevičiūtė	Dissertation: „Sezoninio aplinkos temperatūros kintamumo poveikis klonų įvairovei <i>Daphnia pulex De Geer</i> populiacijoje“.	Dissertation defended in 1992
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### ***Supervision of bachelor and master students:***

**Supervisor** of undergraduate and postgraduate theses (about 20 students).