



Aris Kaksis

Nationality: Latvian **Date of birth:** 15/09/1951 **Gender:** Male **Phone number:** (+371) 26541820

Email address: aris.kaksis@rsu.lv **Website:** <https://science.rsu.lv/en/persons/>

Website: <http://aris.gusc.lv>

Work: Dzirciema Str. 16, room A403, LV1007 Riga (Latvia)

ABOUT ME

You can provide a description of yourself here...

WORK EXPERIENCE

assistant Professor

Faculty of Medicine, Department of Human Physiology and Biochemistry [01/02/1995 – Current]

City: Riga

Country: Latvia

University department head

Faculty of Medicine, Department of General Chemistry [01/09/1993 – 31/01/1995]

City: Riga

Country: Latvia

Supervisor of courses: General Chemistry and Organic Chemistry

EDUCATION AND TRAINING

Dr. CHEM.

Latvian Institute of Inorganic Chemistry at Latvian Academy of Sciences and Latvian University [01/01/1979 – 10/10/1992]

Address: Palaze of Accademy 1 Rainis boulevard 19 , LV-1050 Riga (Latvia)

Master's degree of Chemistry (Physical Chemistry)

Faculty of Chemistry [01/09/1970 – 31/07/1975]

Address: Rainis boulevard 19 , LV-1586 Riga (Latvia)

Website: <https://www.lu.lv/studijas/fakultates/kimijas-fakultate/>

LANGUAGE SKILLS

Mother tongue(s): **Latvian** | **Russian** | **German**

Other language(s):

English

LISTENING C1 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION B1

Russian

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C1

German

LISTENING B1 READING C1 WRITING C1

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B1

PUBLICATIONS

Publications

[2023]

[Kaksis A. «The Biosphere Self-Organization Attractors drive perfect order homeostasis reactions to link bioenergetic with functionally activate oxygen and carbon dioxide molecules. 7th International Conference on New Trends in Chemistry September 25-26, 2021, 27-32](#)

1. Aris Kaksis 2023. RSU; 23 p «[Oxidation-Reduction Homeostasis](#)»
2. Aris Kaksis 2023. RSU; 26 p «[Thermodynamics-Equilibrium-Homeostasis](#)».
3. Aris Kaksis, VelgaKakse «Chemistry for 12thform, » © 2011., 160 p., "LIELVARDIS
4. Aris Kaksis, UldisBergmanis, VelgaKakse «Chemistry for 11» form,,© 2010., 160 p., "LIELVARDIS
5. Aris Kaksis «Chemistry for 10thform» © 2009., 160 p., "LIELVARDIS
6. Aris Kaksis, 2023. RSU; 22 p., «[Carbohydrates and Glucose](#)»,
7. Aris Kaksis, 2023. RSU; 16 p., «[Proteins](#)» .
8. Aris Kaksis, 2023. RSU; 15 p., «[Proteins Advanced Studies](#)»,
9. Aris Kaksis, 2023. RSU; 10 p., «[Glycoproteins Chromoproteins Nucleoproteins](#)»
10. Aris Kaksis, 2023. RSU; 6 p., «[DISSOCIATION and WATER protolysis. pH hydrogen exponent](#)»
11. Aris Kaksis, 2023. RSU; 10 p.,
«[Thermodynamic equilibrium state Attractor for non-equilibrium state with functionally active O₂aqua , CO₂aqua](#)»
12. Aris Kaksis, 2023. RSU; 11 p.,
«[Functionally activate oxygen and carbon dioxide molecules with high rate protolysis equilibria as Biosphere Self-Organization Attractors create perfect order homeostasis reactions to link bioenergetic](#)»
13. Aris Kaksis, 2023. RSU; 15 p.,
«[Nernst's Ox-Red potential and membrane potential in volts Oxidation-reduction balancing with Nernst's half reactions](#)»
14. Aris Kaksis, 2023. RSU; 11 p.,
«[Velocity KINETICS of REACTION dependence on Attractors create molecules functional Activity REACTION velocity proportional to Concentration and velocity constant \(Activity\)](#)»
15. Aris Kaksis, 2023. RSU; 4 p.,«[Atomic Orbitals s,p,d,f;Principal Quantum Number n, Azimuthal Quantum Number l, Magnetic Quantum Number ml, spin 1/2](#)»
16. Aris Kaksis,2023 Riga Stradin's University;4p «[Chemical interaction forces and covalent bond](#)»
17. Aris Kaksis, 2023. RSU; 4 p.,
«[HOMEOSTASIS Concentration gradient Membrane potentials for ions H ,Na ,K ,Ca ,Mg ,HCO₃ ,Cl](#)»
18. Aris Kaksis, 2023. RSU; 7 p.,
«[Functionally activate oxygen, carbon dioxide and water molecules with high rate protolysis equilibria as Biosphere Self-Organization Attractors create perfect order homeostasis reactions to link bioenergetic](#)»
19. Aris Kaksis, 2023 Riga Stradin's University 17p
«[Protolytic equilibria in water BUFFER solutions. Brønsted high rate water protolysis](#)»
<https://science.rsu.lv/en/persons/>

NETWORKS AND MEMBERSHIPS

Memberships

Member of xxxxxxxx

Member of xxxxxxxx

PROJECTS

Projects

Head of several research projects, e.g.:

1. xxxxxxxxx
2. xxxxxxxxx
3. xxxxxxxxx

ORGANISATIONAL SKILLS

Organisational skills

Excellent xxxxxxxxx

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

xxxxxxx

CONTINUING EDUCATION A.O. QUALIFICATION UPGRADE

TEACHER PROFESSIONAL DEVELOPMENT CENTER CERTIFICATE Nr.1151 and No.31729

[01/05/2014 – Current]

2014. Certificate Nr.1151 A program "In order of professional development for General professional Interests Education", Ministry of Science and Education of LAVIA REPUBLIC at Center for Curriculum Development and Examination CCDE (VISC) Valnu Str. 2, Riga

2009. TEACHER PROFESSIONAL DEVELOPMENT CENTER CERTIFICATE No.31729 Chemistry Teacher Good Practice Dissemination in the Baltic Countries. duration of the seminar: 30 hours June 25 - 27, 2009 year Vilnius, Lithuania.

2009. Evaluation of Latvian pupil 12th form examination works in Chemistry , Riga, LATVIA. 17.-18. June 2009.

2008. International scientific- educational conference "Chemistry education - 2008" 2008. Latvian University, Chemistry Faculty.

2008. Certificate No.7 in Summer School of Baltic Chemistry Teachers "Inorganic and Organic World Around Us" on the 26-28 of June 2008 at Tostamaa, Estonia duration 24 hours Vanemuise 46, 51014 Tartu Estonia.

FIELD OF RESEARCH

Field of research

[01/09/2000 – Current]

1. The Bio-Chemistry studies and Methods with Information Technology Tools and Experimental Methods in Practical Biochemistry, <http://aris.gusc.lv/>

2. "Enzyme DATABASES", "Poly Enzyme Systems (PES) in cell framework of tissues, data of kinetics and its Structural relationships";

3. **HIGH RATE PROTOLYSIS ATTRACTORS ACTIVATE** energy over zero $G_{(Pt)}=G_{H_2O}=G_{CO_2(gas)}=0$ kJ/mol of indifferent (P t), water and carbon dioxide **FREE ENERGY CONTENT** as **BIOSPHERE Self-ORGANIZATION** for **PERFECT ORDER IRREVERSIBLE HOMEOSTASIS SUSTAINING** the **PROGRESS** of **BIOENERGETIC, EVOLUTION** and **SURVIVAL**, ©2023. Rīga-, http://aris.gusc.lv

SUPERVISED STUDY PROGRAMME

Experimental Research in Medical Chemistry

[09/2015 – Current]

Experimental Research in Medical Chemistry.

Medical Chemistry.

HEAD OF STUDY COURSE

Experimental Research in Medical Chemistry

[01/09/2015 – Current]

Experimental Research in Medical Chemistry

LECTURED STUDY COURSE

Experimental Research in Medical Chemistry

[01/09/2015 – Current]

Experimental Research in Medical Chemistry

SUPERVISED AND REVIEWED STUDENT RESEARCH PAPERS

Master's theses: 1

Supervised:

Master's theses: 1

AWARDS AND RECOGNITIONS

Memorial Medal for Member of Barricades participated at Defense of restoring Independence of LATVIA on 1991.

[20/01/2009]

Certificate Nr.21755 on 12.January 2009. Year Memorial Medal for Member of Barricades participated at Defense of restoring Independence of LATVIA on 1991.Year January-August