

# Curriculum Vitae (CV)

## Tamar Sanikidze



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### Field of scientific interests:

- Medical Physics and Biophysics Medical radiology, radioprotection, epr spectroscopy.
- Research on the effectiveness and mechanisms of pharmacological drugs and biologically active natural compounds, Functional nutrition.
- Liposomes, cell modeling
- Ecological Medicine, Pathophysiology
- Hemoreology

### 1. Education

| No | Date      | Name of University                     | Academic degree | Specialialization           |
|----|-----------|--|-----------------|-----------------------------|
| 1  | 1973-1978 | Javakhishvili Tbilisi State University | MS              | Biophysics                  |
| 2  | 1890      | Javakhishvili Tbilisi State University | PhD             | Biophysics                  |
| 3  | 1997      | Tbilisi State Medical University       | ScD             | Biophysics, Pathophysiology |
| 4  | 2002      | Tbilisi State Medical University       | Professor       | Biophysics, Pathophysiology |

### 2. Current place(s) of employment

| No | Date      | Position  | Name of the work department                                     | Workplace                          |
|----|-----------|---|---|------------------------------------|
| 1  | 1979-2006 | Senior Laboratory Assistant, Senior Research Fellow, Head of EPR Laboratory | Institute of Experimental and Clinical medicine, Biophysics Lab | Tbilisi State Medical University   |
| 2  | 2002-2014 | Leading, Chief Scientist, Head of Laboratory                                | Lab of Biotechnology  | Institute of Medical Biotechnology |
| 3  | 2006-2009 | Head of the lab   | Scientific-Practical Center of Pharmacology                     | Tbilisi State Medical University   |
| 4  | 2004-2006 | Professor   | Department of Medical Physics and Biophysics                    | Tbilisi State Medical University   |
| 5  | 2008-     | Head of the Lab   | EPR Lab   | Tbilisi State Medical              |

|   |            |                               |  |   |
|---|------------|-------------------------------|--|---|
|   | 2017       |                               |  | University                                      |
| 6 | 2009-today | Professor, Head of Department | Physics, Biophysics, Biomechanics and Informative Technologies | Tbilisi State Medical University                |
| 7 | 2013-today | Chief Research Fellow         | Lab of radiation Safety Problems                               | Beritashvili center of Experimental Biomedicine |
| 8 | 2018-today | Chief Research Fellow         | Institute of Medical Physics and Biophysics                    | Javakhishvili State Medical University          |
| 9 | 2014-today | Lector                        | Continuous Medical Education Program "Radiation Protection"    | Tbilisi State Medical University                |

### 3. Research Projects

| No | Date      | Role in Project   | Project Name  | Donor  |
|----|-----------|-------------------|---|--|
| 1  | 2000-2003 | Researcher        | "Investigation of high-effective processes of C-13 isotope's concentrating, C-13 containing compounds synthesis and Diagnostic methods in Georgia with using of respiratory tests"<br><b>ISTC- G-339"C-13</b> | <b>ISTC- G-339"C-13</b><br>International project   |
| 2  | 2008-2009 | Head              | <b>Citrus extract as an effective remedy for the correction of metabolic syndrome</b><br><b>GRDF-Project 07/282</b>   | <b>GRDF</b><br>International project               |
| 3  | 2008-2010 | Head              | <b>"Studying of Anti-cancer Effects of Georgian Meat Condiments Rich in Polyphenols on Jurkat Cell Line Model"</b><br><b>GNSF- 08_508_2-250</b>   | Rustaveli National Scientific Foundation (Georgia) |
| 4  | 2010-2012 | Researcher        | Toluol induced disorders of limbic system structures in rats of early postnatal development stages and their correction through antioxidant Miradol<br><b>Project 1-2/53</b>                                  | Rustaveli National Scientific Foundation (Georgia) |
| 5  | 2015-2018 | Researcher        | Ethanol intoxication induced disorders of limbic system structures in rats of early postnatal development stages and their correction through Zincum<br><b>FR/167/7-100/14</b>                                | Rustaveli National Scientific Foundation (Georgia) |
| 6  | 2019-2020 | Local Coordinator | "Reducing the Risks of Chemical Pollution",<br><b>AUF-MECR 2020-2021</b>  | France <b>AUF</b><br>International project         |

### 4. Projects in the field of education

| No | Date      | Role in the Project | Project name  | Donor     |
|----|-----------|---------------------|---|-----------|
| 1  | 2013-2016 | Local Coordinator   | <b>TEMPUS</b> Project - "Education in the Biomedical Field in Western-Neighboring Countries"<br><b>543904-TEMPUS-1-2013-GR-</b> | EuroUnion |

|   |           |             |  |  |
|---|-----------|-------------|--|--|
|   |           |             | <b>TEMPUS-JPCR</b>   |  |
| 2 | 2014      | Coordinator | Winter school In Physics “Physical principles of Modern Diagnostic methods in Medicine”                                | Ministry of Education and Science of Georgia       |
| 3 | 2014      | Coordinator | Summer School in Physics “Modern Trends in Medical Visualization and Patient and Personnel Safety ”                    | Rustaveli National Scientific Foundation (Georgia) |
| 4 | 2015      | Coordinator | Winter School "Radiation Medicine in the 21st Century, Trends, Problems and Solutions"<br>project15_2_005              | Rustaveli National Scientific Foundation (Georgia) |
| 2 | 2015      | Lector      | <b>ERASMUS+ 2015</b> Exchange of academic lecturers with West Pomeranian University of Technology (Szczecin, Poland)   | EuroUnion  |
| 3 | 2016      | Lector      | <b>ERASMUS+ 2016</b> – Exchange of academic lecturers with West Pomeranian University of Technology (Szczecin, Poland) | EuroUnion  |
| 4 | 2018-2020 | Lector      | <b>“PROGRESSIO”</b> – Developmental Project of Pomeranian Medical University” <b>POWR.03.05.00-00-Z090/17</b>          | EuroUnion  |
| 5 | 2020-2022 | Lector      | <b>“Impresio”</b> – Developmental Project of Pomeranian Medical University”  | EuroUnion  |

## 5. Monographs

- V. Kipiani, T. Sanikidze, N. Kipiani "Electronic-paramagnetic resonance and its use in medicine", 2005 (in Georgian)
- Virsaladze D., Koplatadze M., Eloshvili N., Sanikidze T., Tananashvili D. "Oxidative stress and endothelial dysfunction during metabolic syndrome", 2006 (in Georgian)
- T. Sanikidze, L. Ratiani "Jurkat Cell" - Regulation of Apoptosis in Model Systems of Jurkat Cells ", 2009 (in Georgian)
- T. Sanikidze, L. Ratiani “Oxidative Metabolism in the Menopausal Period”, 2010 (in Georgian)
- L. Bakhutashvili, I. Megreladze, T. Sanikidze “Plaferon. Results of Clinical-Experimental Studies”, 2011 (in Georgian)
- T. Sanikidze, I. Chkhikvishvili, L. Ratan et al. "Georgian Spices Rich in Polyphenols", 2011 (in Georgian)
- Sanikidze T., Chkhikvishvili I., Ratiani L. "Red Grape Anti-Atherogenic Activity", 2012 (in Georgian)

## 6. Textbooks

- T. Sanikidze “Medical Physics and Biophysics”, Vol. 1, 2016 (textbook) (in Georgian)
- • T. Sanikidze, R. Antia "Medical Physics and Biophysics", Vol. 2, 2016 (Handbook) (in Georgian)
- • Tamar Sanikidze “Biological and medical Physics” v.1, 2016 (in English) (Published by West Pomeranian University of Technology, Szczecin, Publishing House, 70-311 Szczecin, al. Piastów 50, Poland)

- Tamar Sanikidze „Biological and Medical Physics” v. 2, 2016 (in English) (Published by West Pomeranian University of Technology, Szczecin, Publishing House, 70-311 Szczecin, al. Piastów 50, Poland)
- T. Sanikidze "Medical Biophysics" 2019 (in Georgian)
- T. Sanikidze "Medical Physics" 2020 (in Georgian)

## 7. Participate in conferences

- 1) II European Asthma Congress, I International Congress *Health and Drugs* III Georgian Congress of Allergology and Immunology (2004). Symposium “Pharmacological Correction of Blood Redox Status”(Chair of Symposium)
- 2) IV International Congress *Modern Problems in Allergology, Immunology& Medical Biotechnology*, III International congress *Health and Drugs* (2008) (Symposium “Woman and Health” Chair of Symposium)
- 3) I International Conference “Healthy Women”, Tbilisi, 2009 – Chair of Symposium, member of the Organization committee
- 4) CRDF, GNSF, GRDF-is treningi “From Idea to Market”, 2008
- II International Conference “From Maturity to Aging”, Batumi, 2012 – Chairman of the Conference
- 4) 5-th International Conference on Drug Discovery and Therapy, UAE, Dubai, 2013, Speaker
- 5) IX International Workshop on EPR in Biology and Medicine, Poland Krakow, 2013, Speaker
- 6) 8) Second Scientific Conference "Natural and Synthesized Biologically Active Substances", Tbilisi, 2013, Speaker
- 7) 3-ed International Conference of Organic Chemistry (ICOC-2014), Tbilisi, 2014, Speaker
- 8) “Optimisation in X-ray and Molecular Imaging, 2015, Gothenburg, Sweden”, Speaker
- 9) EPR Biodose 2015, Hanover Inn, NH, USA, 2015, Speaker
- 10) VIII International Meeting “From Molecular to Cellular Events in Human Pathologies”, 2015 18-20 October, Tbilisi, Speaker
- 11) 3-ed International Conference on Nanotechnologies and Biomedical Engineering, Moldova Chisinau, 2015, Speaker
- 12) 5-th IEEE International Conference “E-Health and Bioengineering: EHB-2015, Iasi, Romania, 2015, Speaker
- 13) X International Workshop on EPR in Biology and Medicine, Poland Krakow, 2016, , Speaker
- 14) International Scientific-Practical Conference "Modern Approaches to Environmental Risk Management in Urban Zones (Systems)", Tbilisi 2017, Conference Chair, Speaker
- 15) 4th DHU 2020 Autumn School, “New determinants for chronic diseases” 26 October - 27 October 2017. CCI Nantes, Nantes, France, Speaker
- 16) International Conference on Physical Protection of Nuclear Material and Nuclear Facilities International Conference on Physical Protection of Nuclear Material and Nuclear Facilities, Vienna, Austria, 13–17 November 2017, Speaker
- 17) EPR Biodose 2018, Helmholtz Zentrum München, Germany, Speaker
- 18) . International Multidisciplinary Conference on Biomedicine – BIOMED-2019, Tsikhisdziri, Georgia, May 18<sup>th</sup> -19<sup>th</sup>, 2019. Speaker
- 19) INTERNATIONAL CONFERENCE NATURAL ORGANIC MATTER (NOM) GEOCHEMICAL FLOWS AND PROPERTIES: FROM THEORY TO PRACTICE” HUMIC. 5-8 JUNE 2019, RIGA, LATVIA Speaker
- 20) HDL Workshop: structure, novel functions and therapeutic application 25-27 September, 2019. Valencia, Spain. Speaker
- 21) International Conference ESC Heart & Stroke 2020. Barcelona, Spain, 24-25 January. Speaker
- 22) International conference “Optimisation X-ray and Molecular Imaging” 2020, Gothenburg, Sweden, 21-24 June, 2020

## 8. Leadership of PhD students

Supervisors/consultants of 50 dissertation  
Head of 2 doctoral programs approved by the TSMU

## 9. Membership of scientific societies

- International Association of EPR Spectroscopy
- "Healthy Woman" Society (Founder and Vice President)
- "Medicine and Ecology" Member of the Presidium of the Association

## Publications

Author of 150 scientific articles

12 citation index (Google scholar)

## Cited by

|                  | All | Since 2015 |
|------------------|-----|------------|
| <u>Citations</u> | 572 | 351        |
| <u>h-index</u>   | 12  | 8          |
| <u>i10-index</u> | 12  | 6          |