Curriculum vitae Europass

Informaţii personale

Nume / Prenume	**SINESCU COSMIN**

Locul de muncă vizat / Domeniul ocupaţional	**Universitatea de Medicina si Farmacie Victor Babes din Timisoara, Facultatea de Medicina Dentara**

Experienţa profesională

Perioada	**2015 - Prezent**
Funcţia sau postul ocupat	**Profesor Universitar Abilitat – Conducere de Doctorat** (***Decizia 8/12016/06.10.2015***)
Activităţi şi responsabilităţi principale	Activitate didactică şi de cercetare
Numele şi adresa angajatorului	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara, Facultatea de Medicină Dentară
Tipul activităţii sau sectorul de activitate	Învăţământ universitar
Perioada	**2015 - Prezent**
Funcţia sau postul ocupat	**Profesor Universitar** (***Decizia 203/21.09.2015***)
Activităţi şi responsabilităţi principale	Activitate didactică şi de cercetare
Numele şi adresa angajatorului	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara, Facultatea de Medicină Dentară
Tipul activităţii sau sectorul de activitate	Învăţământ universitar
Perioada	**2013 - 2015**
Funcţia sau postul ocupat	**Conferentiar Universitar** (***Decizia 81/08.01.2013***)
Activităţi şi responsabilităţi principale	Activitate didactică şi de cercetare
Numele şi adresa angajatorului	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara, Facultatea de Medicină Dentară
Tipul activităţii sau sectorul de activitate	Învăţământ universitar
Perioada	**2007 - 2013**
Funcţia sau postul ocupat	**Şef de Lucrări** (***Decizia 42/22.02.2007***)
Activităţi şi responsabilităţi principale	Activitate didactică şi de cercetare
Numele şi adresa angajatorului	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara, Facultatea de Medicină Dentară
Tipul activităţii sau sectorul de activitate	Învăţământ universitar

Perioada	**2004 - 2007**
Funcţia sau postul ocupat	**Asistent Universitar** (***Decizia 35/25.02.2004***)
Activităţi şi responsabilităţi principale	Activitate didactică şi de cercetare
Numele şi adresa angajatorului	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara, Facultatea de Medicină Dentară
Tipul activităţii sau sectorul de activitate	Învăţământ universitar
Perioada	**2000 - 2004**
Funcţia sau postul ocupat	**Preparator Universitar** (***Decizia 93/05.10.2000***)
Activităţi şi responsabilităţi principale	Activitate didactică şi de cercetare
Numele şi adresa angajatorului	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara, Facultatea de Medicină Dentară
Tipul activităţii sau sectorul de activitate	Învăţământ universitar

Educaţie şi formare

Perioada	**2018 - Prezent**
Calificarea / diploma obţinută	**Director Consiliu Şcolii Doctorale Domeniul Medicină Dentară**
Disciplinele principale studiate / competenţe profesionale dobândite	***Deciziile 18/8140/27.06.2018; 10/13008/26.09.2018; 208/18470/18.12.2020;***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2025 - Prezent**
Calificarea / diploma obţinută	**Expert Evaluator Independent pentru Evaluarea Performantei pentru Integrarea Activitatii de Cercetare Stiintifica si Dezvoltare Tehnologice a Organizatiilor de Cercetare**
Disciplinele principale studiate / competenţe profesionale dobândite	**Ordin 10384/06.05.2025.**
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	**Ministerul Cercetarii, Inovarii si Digitalizarii**
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2023 - Prezent**
Calificarea / diploma obţinută	**Membru în Comisia de Stomatologie Generală**
Disciplinele principale studiate / competenţe profesionale dobândite	***Ordin 3337/28.09.2023***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Sănătăţii
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2023 - Prezent**
Calificarea / diploma obţinută	**Membru în Corpul de Experţi din Registrul Naţional al Experţilor (*OMCID nr 20242/13.02.2023*)**
Disciplinele principale studiate / competenţe profesionale dobândite	**Domeniul de Specializare Inteligentă la Nivel National: 7. Sănătate – Prevenţie, Diagnostic şi Tratament Avansat**
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Cercetării, Inovării şi Digitalizării
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2021 - Prezent**
Calificarea / diploma obţinută	**Medic Dentist Primar Protetică Dentară**
Disciplinele principale studiate / competenţe profesionale dobândite	***OMS 680/13.05.2021***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Sănătăţii

Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2016 - Prezent**
Calificarea / diploma obţinută	**Cadru Didactic Asociat Universităţii Politehnica din Timişoara**
Disciplinele principale studiate / competenţe profesionale dobândite	***Contract Individual de Muncă: 9850/29.09.2016; 12124/28.09.2018; 13168/27.09.2019; 04030/24.09.2020; 15241/30.09.2021;***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea Politehnica din Timişoara, Departamentul de Mecanică şi Rezistenţa Materialelor
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2011 - Prezent**
Calificarea / diploma obţinută	**Viziting Honorary Senior Lecturer**
Disciplinele principale studiate / competenţe profesionale dobândite	https://research.kent.ac.uk/applied-optics/person/cosmin-sinescu/
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea din Kent, Canterbury, UK
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Internaţional
Perioada	**2008 - Prezent**
Calificarea / diploma obţinută	**Medic Dentist Primar Stomatologie Generală**
Disciplinele principale studiate / competenţe profesionale dobândite	***OMSP 1971/03.12.2008***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Sănătăţii
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2008 - Prezent**
Calificarea / diploma obţinută	**Competenţă: Utilizarea Terapeutică şi Chirurgicală a Laserilor în Medicina Dentară**
Disciplinele principale studiate / competenţe profesionale dobândite	***OMSP 24252 / 16.07.2008***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Sănătăţii Publice
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2008 - Prezent**
Calificarea / diploma obţinută	**Competenţă: Implantologie**
Disciplinele principale studiate / competenţe profesionale dobândite	***OMSP 22607 / 20.11.2007***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Sănătăţii Publice
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2019 - 2021**
Calificarea / diploma obţinută	**Master** (***Decizia 14065/27.07.2021***)
Disciplinele principale studiate / competenţe profesionale dobândite	Responsabilitatea Juridică a Personalului Medical
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Universitatea de Medicină şi Farmacie Victor Babeş Timişoara
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2014**

Calificarea / diploma obţinută	**Master Architect in Prosthetics, Including courses on Occlusion, Removable Principle Design, Tooth Preparation, Impression Techniques, Dental Ceramics, Lecturer Prof. Dr. Emanuele Risciotti, Bucharest, Romania**
Disciplinele principale studiate / competenţe profesionale dobândite	***Diploma 11/ 25.10.2014***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Asociatia Medicilor Dentisti Oradea
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2014**
Calificarea / diploma obţinută	**Master Competence in Esthetics, Lecturer Dr. Leonardo Bacherini, Bucharest, Romania**
Disciplinele principale studiate / competenţe profesionale dobândite	***Diploma 09/18.10.2014***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Asociatia Medicilor Dentisti Oradea
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2010 - 2013**
Calificarea / diploma obţinută	**PostDoctorat**
Disciplinele principale studiate / competenţe profesionale dobândite	Proiect cofinanţat din Fondul Social European prin Programul Operaţional Sectorial pentru Dezvoltarea Resurselor Umane 2007 – 2013 Axa prioritară: 1 „Educaţia şi formarea profesională în sprijinul creşterii economice şi dezvoltării societăţii bazate pe cunoaştere" Domeniul major de intervenţie: 1.5 „Programe doctorale şi postdoctorale în sprijinul cercetării", Sinescu Cosmin - director de proiect 2010 – 2013.
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Grant POSDRU, 4D-POSTDOC, contract nr. POSDRU/89/1.5/S/52603, Dezvoltarea si sustinerea de programe postdoctorale multidisciplinare in domenii tehnice prioritare ale strategiei nationale de cercetare - dezvoltare – inovare, Universitatea Politehnica din Timişoara
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	**2005**
Calificarea / diploma obţinută	**Doctor în MedicinăDentară**
Disciplinele principale studiate / competenţe profesionale dobândite	***OMEC 3184 / 07.02.2005***
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Educaţiei și Cercetării
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional
Perioada	2000
Calificarea / diploma obţinută	Doctor Medic Stomatolog
Disciplinele principale studiate / competenţe profesionale dobândite	1175 / 09.05.2000
Numele şi tipul instituţiei de învăţământ / furnizorului de formare	Ministerul Educaţiei Naţionale
Nivelul în clasificarea naţională sau internaţională	Învăţământ Universitar Naţional

Aptitudini şi competenţe personale

Limba(i) maternă(e) **Precizaţi limba(ile) maternă(e)** (dacă este cazul specificaţi a doua limbă maternă, vezi instrucţiunile)

Limba(i) străină(e) cunoscută(e)

Autoevaluare	**Înţelegere**		**Vorbire**		**Scriere**
Nivel european (*)	Ascultare	Citire	Participare la conversaţie	Discurs oral	Exprimare scrisă
Limba Engleza	B2	B2	B2	B2	B2

Limba Franceza	B2	B2	B2	B2	B2

(*) Nivelul Cadrului European Comun de Referinţă Pentru Limbi Străine

Competenţe şi abilităţi cercetare	Descrieţi aceste competenţe şi indicaţi contextul în care au fost dobândite. (Rubrică facultativă, vezi instrucţiunile)
ICH Good Clinical Practice E6 (R2)	*Good clinical practice provides a framework of principles which aim to ensure the safety of research participants and the integrity and validity of data. This course aims to provide the researcher with the basic principles of GCP and how these principles can be applied practically in the research setting. This ICH E6 GCP Investigator Site Training meets the Minimum Criteria for ICH GCP Investigator Site Personnel Training identified by TransCelerate BioPharma as necessary to enable mutual recognition of GCP training among trial sponsors.*
Introduction to Research Ethics	*This module introduces health-related research ethics and the importance of ethics oversight. The primary responsibilities of research ethics review committees (RECs) are described, as are landmark events and documents in the development of research ethics. A section on 'Principles and guidelines' introduces you to guidance that will become important in your role as a member of an REC or as a researcher responsible for supporting the development and implementation of ethical research.*
Principles and Guidelines	*Ethical principles are general statements used to guide actions or policies. Researchers and members of research ethics review committees (RECs) can refer to these principles and to human rights documents to guide and to justify various elements of a research protocol. RECs can also point to a feature of proposed research that violates an ethical principle or right and must be deleted or modified. However, principles are often abstract and require interpretation when applied to specific circumstances.*
Evaluating Risks and Benefits	*Research with human beings carries risks. These may be physical, psychological, social, economic and/or political. Assessing the probability, level and type of those risks – and weighing them against possible benefits – is one of the key tasks of a REC. A related task is to find practical solutions to minimize risks and to maximize benefits. Issues of justice are closely related to considerations of risk and benefit: who should be chosen to participate? Distributing the benefits and risks of research fairly is a key issue in international health research. Assessing the wide range of possible harms and benefits requires knowledge of the research context. Where the information provided in the research protocol is not sufficient, RECs may ask for additional information and should also seek this information out themselves.*
Issues in Study Design	*Study design is a benchmark of ethical research: a study involving human participants, for example, that does not have an adequate study question or is not robust enough to answer the research question will expose persons to risks without any justification.* *Some aspects of research methods and design raise ethical issues to keep in mind when designing or reviewing a study. The choice of the study population, of the intervention, of the comparison group, of the primary and secondary outcomes, and the assumptions made in calculating the sample size, all raise ethical issues concerning the level of research-related risk, benefits to future patients, and the fair distribution of risks and benefits.*
Understanding Vulnerability	*A person is considered vulnerable if they are incapable of protecting their own interests or because some circumstances in which they live increase the likelihood that others place their interests at risk. Vulnerability is not always an intrinsic state of being; otherwise-competent individuals may become vulnerable in a certain situation. Ethics committees should identify vulnerable persons, or situations that may render populations vulnerable, and ensure that measures have been taken to reduce harm to these individuals. Being vulnerable is not a criterion for exclusion. Rather than excluding whole groups of people, RECs should recommend special protections and encourage the involvement of the members of that community in all stages of the research.*

Obligations to Research Participants

Researchers, sponsors and other stakeholders have certain obligations derived from broad international human rights declarations and the specific research ethics principles of justice, beneficence/nonmaleficence and respect for persons. Informed consent, protecting confidentiality, engaging communities, and minimizing harms/maximizing benefits are obligations that are covered in detail in other sections. Harm caused as a direct result of the research must be compensated CIOMS 2016 Guideline 14 (Treatment and compensation for research-related harms) but the guidance is often less clear on the obligation to provide care and treatment for conditions not directly related to the intervention being tested (ancillary care issues). It is, therefore, important that stakeholders (funders, sponsors, researchers, and others engaged in the research process) identify and agree upon the care and treatment that will be offered, by whom and for how long.

Engaging with Communities

Health-related research should be understood as a partnership among a wide range of stakeholders. Discussion, negotiation, and mutual respect are crucial elements for the research and the partnerships to be both successful and ethical. Communities where the research occurs and/or to whom findings can be linked are important stakeholders because research may affect them both positively and negatively. Researchers should actively engage with communities across the life cycle of the research project, where possible including them in decision-making from problem identification through to results dissemination. In doing so, researchers and their teams should be sensitive to and respect communities' cultural, traditional, and religious practices. Formative research can be an invaluable step towards this. When developing or reviewing protocols, researchers and RECs should look for how communities are engaged across the research project as partners.

Privacy and Confidentiality

The right to privacy and the duty of confidentiality are fundamental in all health research with human beings. Any limits to confidentiality that are required by law or felt as a moral imperative must be communicated in the informed consent document. It is the duty of the researcher to know what those issues are. Confidentiality is a duty of all members of the research team. Mechanisms to safeguard confidentiality should be communicated in the protocol.

Informed Consent

The principle of respect for persons requires that we do not conduct research without their consent. But sensitivity to other cultures requires that researchers pay attention to the context in which research is conducted, including customs and traditions. Sensitivity to other cultures cannot override the central requirement of respect for persons, which requires that we refrain from conducting research without consent. This is a fundamental principle, which is important to promote so as to empower vulnerable populations. Genuine consent to research must be sought from all participants in research. AND There is also a duty to develop or implement innovative practices with regard to providing information and to ensure that consent to research is given freely.

Other Ethical Issues

Researchers and REC members have an obligation to ensure that research protocols include indications of adequate resources. This includes reviewing the curriculum vitae of PIs and other key research team members to ensure they are qualified to conduct the research; that the budget is adequate; that logistics, such as supply chains for drugs or recruitment periods, are well thought out and reasonable; and that adequate resources are allocated to the analysis and dissemination of findings. In addition, they have responsibilities to ensure that the protocol is transparent (who is sponsoring and paying for the research?) and to be aware of issues of possible research misconduct.

OCT measurements of human teeth ex vivo

REC reference: **oral tiss***12/NW/0872*
IRAS project ID: *109561*

The favourable ethical opinion for the study continues to apply for the duration of the research as agreed by the REC.

Where research involves the use of human tissue in England, Wales or Northern Ireland, legal authority to hold the tissue under the terms of the ethical approval remains in place for the duration of the approved project.

Introduction To Clinical Research

Uniformity of study and of quality assurance procedures are ensured by the implementation and use of standard operating procedures (SOPs).

SOPs identify who is responsible for which task, provide the steps to be followed for study procedures, help all staff to carry out a particular task in the same way, and help to monitor site performance.

All research study staff should be trained in and have access to a copy of the SOPs.

SOPs also see to it that the quality of the data handling and processing is maintained.

OCT measurements of human teeth ex vivo

REC reference: 12/NW/0872

IRAS reference: 109561

The Proportionate Review Sub-committee of the NRES Committee North West - Liverpool Central reviewed the above application by correspondence.

Ethical opinion

On behalf of the Committee, the sub-committee gave a favourable ethical opinion of the above research on the basis described in the application form, protocol and supporting documentation, subject to the conditions specified below.

Ethical review of research sites

The favourable opinion applies to all NHS sites taking part in the study, subject to management permission being obtained from the NHS/HSC R&D office prior to the start of the study

Statement of compliance

The Committee is constituted in accordance with the Governance Arrangements for Research Ethics Committees and complies fully with the Standard Operating Procedures for Research Ethics Committees in the UK.

Excellence in Full Denture Technology

This presentation will cover the successful procedures and case planning on full dentures, leading to less chair time and patient acceptance.

Data Safety and Monitoring Boards for Clinical Trials

Course objectives and contents

Objectives

Upon completion of this course, you will have an understanding of:

- *what a Data Safety Monitoring Board does*
- *the existing regulations and where the gaps are*
- *the statistical considerations involved*
- *a basic DSMB membership training curriculum*
- *principles that should guide a DSMB*

Contents

- *Background*
- *Existing regulations*
- *To have or not to have a DSMB*
- *Statistical considerations for the DSMB*
- *Making the DSMB work*

Quintessential Tools: Digital Dentistry Solutions for Analog Patient Problems

Many traditional dental procedures have been given a digital makeover, and this technology has greatly improved the efficacy, laboratory communication, case acceptance, and overall clinical experience in the ongoing quest for improved patient outcomes. This webinar evaluates some of the "can't live without" tools that have revolutionized the path of the contemporary analog clinician toward a more successful future shaped by digital dentistry..

Ethics of Ancillary Care in Research

This course begins with an introductory segment providing an overview of ancillary care in research settings, its relevance to researchers and the main ethical questions associated with the provision of ancillary care. Segment two provides an overview of the moral reasons for ancillary care obligations including; general versus special duties as potential grounds for ancillary care obligations, duties of justice, duty of rescue and researcher-participant relationship. The third segment covers theories regarding the content of ancillary care obligations and how they could inform guidelines for determining specifically what kinds of ancillary care ought to be provided or facilitated in a given study. The fourth segment provides a brief overview of the aims of empirical studies on ancillary care provision and the fifth (and final) segment provides an overview of important gaps in our understanding of ancillary care obligations.

Objectives:

Upon completion of this course, you will have an understanding of:

1. *What ancillary care is and what are the main ethical questions associated with providing or facilitating it*
2. *The difference between general and special duties as possible reasons why researchers have ancillary care obligations*
3. *The various philosophical approaches to establishing whether or not researchers have ancillary care obligations*
4. *The main theories that could inform guidelines for determining specifically what kinds of ancillary care ought to be provided or facilitated in a given study*
5. *Important conceptual and empirical gaps in the current understanding of ancillary care obligations*

Contemporary-Digital-Denture-Workflows

Fabrication of complete dentures using digital technology has developed relatively quickly and represents a significant advance in the treatment of complete edentulism. Clinicians need to be familiar with this new clinical approach to the care of edentulous patients.

This webinar is intended to provide a thorough introduction to this topic, reviewing background information, the latest findings in the literature, as well as illustrating clinical cases. The aim is to provide an overview of the workflow, steps in fabrication, and materials used in the fabrication of digital dentures. Clinicians will acquire the necessary background to begin incorporating this new clinical technique into practice.

Participants will learn:

Understand the workflow for complete dentures.

Be familiar with the current materials (teeth and base) used in the fabrication of digital dentures (printed, milled, processed).

Be familiar with the different workflows used in fabrication of immediate, conventional complete, and reference dentures.

Seeing-Through-The-Vapor-a-discussion-of-risks-and-implications-of-vaping-for-the-dental-professional

Its popularity, especially among younger users, has expanded dramatically. Meanwhile, recent reports of dangerous health consequences, including fatalities, necessitate the awareness of health care professionals and their actions in responding to this emerging public health issue.

A variety of delivery methods and substances, both legal and illicit, are implicated in the associated morbidity and mortality reports. While a clear picture and appropriate response are yet to emerge, in this presentation we will discuss the current understanding of vaping and its consequences, as well as strategies for addressing this multifaceted issue.

Participants will learn:

The extent, complexity, and historical perspectives leading to vaping as an emerging public health problem

Systemic health effects and consequences of vaping, including lung diseases and associated mortality

The various devices, substances and additives and their potential contributions to negative health outcomes

Suggestions for addressing vaping by oral health professionals in various settings

Accelerating Best Practice in Medical-Dental Integration

Participants will learn:

How to identify resources and opportunities to support oral health integration in primary care education and practice.

Why oral health professionals should incorporate primary care screenings into dental practice.

Concurrent methods of accessing real time patient data from other specialists and disciplines

Early Diagnosis: The Key to Prevention and Conservative Treatment of Oral Cancer

With Oral Cancer on the rise, learn the risk factors, how to effectively screen patients and help patients navigate post cancer treatment. We as dental professionals are at the forefront and a comprehensive knowledge is needed to better help your patients. This course will guide you to effectively diagnosis and help you save lives.
Learning Objectives:
Define oral cancer and explore the statistics
Recognize the risk factors and signs/symptoms of oral cancer
Discuss prevention, HPV vaccines and encouraging biopsy
Learn how to properly document soft tissue and hard tissue lesions
Examine the currently accepted protocol to use when an area of concern is identified
Explore staging and various treatment options along with patient management.

The Complete Full Arch Implant Digital Workflow Utilizing the Dental Avatar Concept

Learning Objectives:
Describe advancements and new tools utilizing CBCT (cone beam computer tomography).
Explain the use of intraoral, desktop, facial scanning, and 3D printing.
Discuss the need for bone and tissue preservation.

The Minimal Invasive Prosthetic Revolution

The prosthetic rehabilitation is presently undergoing many changes thanks to some revolutionary clinical procedures and technologies. An innovative operative protocol allows to face highly compromised clinical situations, with a minimally invasive prosthetic procedure (MIPP) that – thanks to the maintainance of a maximum amount of enamel and also to the VDO modification – guarantees a remarkable, long lasting resistance thus maintaining a maximum amount of enamel.
Prof. Fradeani's extensive experience and innovative approaches form the core of this course, guiding practitioners through the latest advancements and methodologies in minimal invasive prosthetics.
Upon completing this course, participants will be able to:

1. ***Understand the Principles of Minimally Invasive Prosthetics**: Grasp the foundational concepts and benefits of minimal intervention in prosthetic dentistry.*
2. ***Identify Appropriate Clinical Applications**: Learn to select suitable cases for minimally invasive prosthetics, considering patient-specific needs and conditions.*
3. ***Master Advanced Techniques and Materials**: Gain proficiency in the latest materials and techniques that facilitate minimal tooth preparation while ensuring high-quality restorations.*
4. ***Incorporate Digital Dentistry Tools**: Utilize digital technology for precise planning and execution of minimally invasive prosthetic procedures.*
5. ***Achieve Aesthetic and Functional Excellence**: Understand how to balance aesthetic requirements with functional stability in a conservative approach.*
6. ***Practice Evidence-Based Decision Making**: Apply evidence-based strategies to make informed clinical decisions in the realm of minimally invasive prosthetics.*
7. ***Enhance Patient Communication and Satisfaction**: Develop skills to effectively communicate the benefits of minimally invasive approaches to patients, thereby enhancing patient satisfaction and acceptance.*

Face Scanners in Dentistry - Everything You Need to Know

Learn why face scanning is revolutionizing cosmetic dentistry in this expert-led webinar. Dr. Ahmad Al-Hassiny, a digital dentistry pioneer, reveals how facial scanners like RayFace eliminate lab redos, ensure smile design accuracy, and enable better case planning and patient communication - ideal for any clinician interested in elevating their cosmetic practice through cutting-edge technology.
Learn how facial scanners like RayFace are transforming cosmetic dentistry from digital dentistry pioneer Dr. Ahmad Al-Hassiny.

Learn all about face scanners and how they are used
Eliminate lab re-dos through better case planning and communication
Improve smile design and cosmetic case acceptance
Enhance patient consultations with advanced simulations
Revolutionize workflows with easy delegation to all clinical staff

Achieving Predictable Anterior Implant Esthetics, Surgical Techniques & Material Selection

This webinar focuses on effective techniques for managing anterior implant aesthetics, tailored for general dentists. It simplifies the process, enabling dentists to confidently handle these cases without the need for multiple specialists. Topics include implant positioning, surgical guide fabrication, extraction techniques, custom healing abutments, tissue management, bone grafting, and temporization. The session also discusses bonding agents for materials like Lithium Disilicate and Zirconia, and the selection of cements for predictable results.

***Learning Objectives**:*

Gain confidence in tissue management and extraction techniques that contribute to aesthetic success on anterior implants.

Discuss provisionalization techniques that help preserve papilla and tissue height during the implant healing process.

Become more familiar with bonding protocols for Zirconia and Lithium Disilicate, achieving predictable results.

Clinical Technologies to Improve the Care of Older Populations

This webinar will explore innovative technologies designed to enhance the care of aging patients.

Learning Objectives:

Explore how today's technologies are improving patient care for older adults.

Discover new tools that enable monitoring and communication for facility-bound patients.

Discuss how artificial intelligence is transforming the way care is provided to older populations.

Practice Management Series: Communication in the Work Place

Our workplace can often be a stressful, sometimes unproductive and toxic environment. What matters is how we can work through them. Often this starts with having difficult workplace discussions. This lecture will help humble you in recognizing and addressing conflicts that can arise both personally and professionally. It will discuss the foundation of building blocks and confronting certain emotions

Participants will learn:

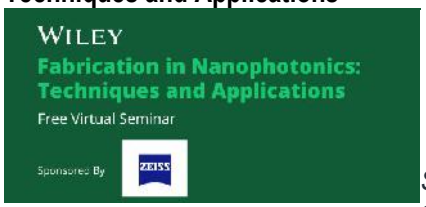
The 5 parts that make up a conversation

Emotions and identity what they are and what they mean

Empathy what it means and what it can do for you

How to recognize and address work place conflicts

Fabrication in Nanophotonics: Techniques and Applications



In this session the experts will:

- *Provide insight into some of their recent work in Mietronic and plasmonic systen with special consideration of nanofabrication and nanocharacterization techniqu*
- *Touch on Mie voids for loss-free nanoscale light confinement in air, combined electron and ion beam lithography, and other nanofabrication techniques.*

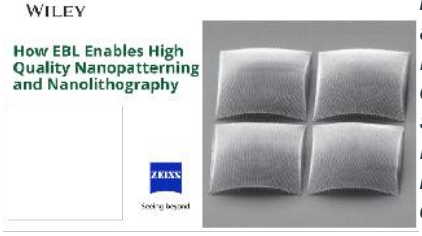
Full hard and soft surgical restoration in one single step: introducing the one step optimisation process with the Poncho Lamina technique for anterior and posterior single sites

Several techniques have been demonstrated in the bibliography for optimising hard and soft tissue around dental implants. Adequate hard tissue volume and a correct, mimicking the nature, soft tissue configuration for the future crowns, assure stability and a better prognosis of the dental implants in the long term.

This webinar consists of 2 main parts: the first one will analyse the topic of bone and hard tissue augmentation and optimisation in modern implant therapy. Key factors for success when using established regeneration protocols and the biomaterials needed will be highlighted. The advantages and disadvantages of the analytical mindset in current bone and soft tissue augmentation procedures will be also presented.

The second part will emphasise on the implementation of the Poncho Lamina technique for a one step optimisation process in edentulous sites that need horizontal bone augmentation. Clinical cases will be shown and a discussion will follow in order to clarify when, how, where this approach should be used and why it could be a game changer within the spectre of a modern prosthetically enhanced hard and soft tissue optimising approaches.

How EBL Enables High Quality Nanopatterning and Nanolithography



Nanofabrication plays a crucial role in applications such as quantum technology device engineering, electrical engineering, nanocontacting, photonics, optoelectronics, and microfluidics. The research challenges in nanolithography and nanofabrication lies in the ability to create highly resolved nanometer scale features while ensuring accuracy, stability and repeatability.

Researchers in nanofabrication will utilize advanced imaging and lithography with an electron beam lithography system specially tailored for nanoengineering. These systems, which integrate the ZEISS Gemini electron optical column with RAITH ELPHY pattern generators, enable the creation of nanometer-scale objects and deliver high-resolution imaging, even at low kV. Additionally, the combination of the systems offers exceptional flexibility, supporting a range of accessories for in-depth structural analysis with various techniques.

Join us for this webinar to learn how the ZEISS/RAITH EBL solution with its remarkable reliability driven by unique features such as the Gemini electron optics, the FIB column ZEISS Ion-sculptor, and the RAITH ELPHY attachment, enable the precise design of new materials and devices needed to support the latest advancement needs in nanofabrication, nanostructure, and nanoobject imaging and analysis.

Key Learnings for Attendees:

How Electron beam lithography (EBL) is used to design devices, systems and functional materials at the nanometer scale

How you can achieve a proven reliability in nanolithography based on unique properties of the ZEISS FE-SEM GEMINI column, Ion-Sculptor FIB column and ZEISS-RAITH interface

How RAITH ELPHY upgrade kits aka "lithography attachments" add value to the ZEISS GEMINI-based FE-SEM and/or Crossbeam systems to extend the applications to nanolithography and nanofabrication without compromising any of their original functionality e.g., imaging, analysis, or micromanipulation

Application examples in the field of quantum engineering, electrical engineering, photonics, optoelectronics & microfluidic will be provided using the ZEISS/RAITH EBL solution

Competenţe şi aptitudini organizatorice

1. Primul Congres de Aplicatii ale Laserului In Medicina Dentara, 2005 – membru comitetul de organizare;
2. Al II-lea Congres de Aplicatii ale Laserului In Medicina Dentara, 2007– membru comitetul de organizare;
3. Al III-lea Congres de Aplicatii ale Laserului In Medicina Dentara, 2009 – membru comitetul de organizare;
4. 4th International Conference „Biomaterials, Tissue Engineering & Medical Devices" – membru comitetul de organizare;
5. The 4th International Conference on Advanced Materials and Structures AMS 2011 " – membru comitetul stiintific si de organizare;
6. Al IV-lea Congres de Aplicatii ale Laserului In Medicina Dentara, 2011 – membru comitetul de organizare;
7. Al V-lea Congres de Aplicatii ale Laserului In Medicina Dentara, 2013 – membru comitetul de organizare;
8. ICS 2013 : International Conference on Stomatology - Bangkok, Thailand - – membru comitetul stiintific;
9. The Days of „Victor Babes" University of Medicine and Pharmacy Timisoara 2014 – membru in comitetul stiintific si in comitetul organizatoric;
10. Al VI-lea Congres de Aplicatii ale Laserului In Medicina Dentara, 2015 – membru comitetul stiintific;
11. 1st International Conference: Advance in 3OM: Opto-Mechatronics, Opto-Mechanics and Optical Metrology, 13 – 16.12.2021, Timisoara, Romania – Co-Chair in Comitetul Stiintific la Sectiunea de Dental Materials and Biotechnology (https://3om-group-optomechatronics.ro/advances-in-3om-conference-2021/scientific-committees/);
12. 2nd International Conference: Advance in 3OM: Opto-Mechatronics, Opto-Mechanics and Optical Metrology, 11 – 14.12.2023, Timisoara, Romania – Program Chair (https://3om-group-optomechatronics.ro/advances-in-3om-conference-2023/);

Membership

SPIE- The International Society for Optics and Photonics

American Dental Education Association
The Voice of Dental Education

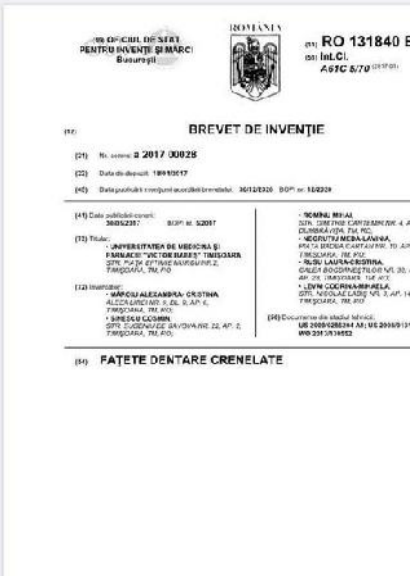
Romanian Association of Dental Public Health

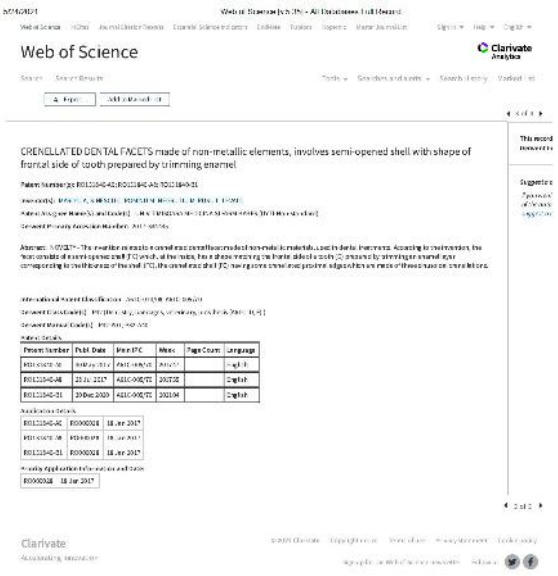
Dental Leaders Academy

Premii Inventii

Brevet de Inventie
Faţete dentare crenelate - un nou concept în estetica dentară
patent number(s):ro131840-a0; ro131840-a8; ro131840-b1

FAŢETE DENTARE CRENELATE - UN NOU CONCEPT ÎN ESTETICA DENTARĂ
Patent Number(s):RO131840-A0; RO131840-A8; RO131840-B1
Autori: MAROIU ALEXANDRA-CRISTINA, SINESCU COSMIN, ROMINU MIHAI, NEGRUŢIU-MEDA LAVINIA, RUSU LAURA-CRISTINA, LEVAI CODRINA-MIHAELA
Invenţia se referă la un nou design al faţetelor dentare, în vederea îmbunătăţirii adeziunii acestora la substratul dentar. Elementul particular al design-ului propus constă în marginea proximală crenelată, al cărei rol este de a augmenta suprafaţa de contact dintre restaurarea protetică şi smalţ, sporind astfel forţa de adeziune la nivelul interfeţei.



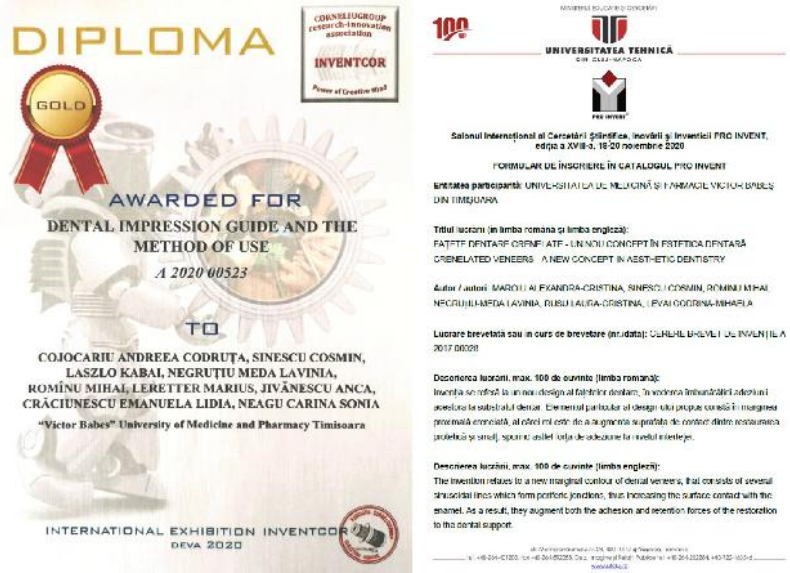


Salonul Internaţional de Invenţii şi Inovaţii «Traian Vuia», 14 iunie 2019, Timişoara.

1. Medalia de Aur pentru Invenţia Faţete dentare crenelate la Salonul de Invenţii şi Inovaţii «Traian Vuia», 14 iunie 2019, Timişoara.
2. Special Award for the Invention Faţete dentare crenelate la Salonul de Invenţii şi Inovaţii «Traian Vuia», 14 iunie 2019, Timişoara.
3. Diploma de Excelenţă şi Premiul Special al USAMVB «REGELE MIHAI I AL ROMÂNIEI» Timişoara, la Salonul de Invenţii şi Inovaţii «Traian Vuia», 14 iunie 2019, Timişoara.

Salonul Internaţional al Cercetării Ştiinţifice, Inovării şi Inventicii PRO INVENT, ediţia a XVIII-a, 18-20 noiembrie 2020

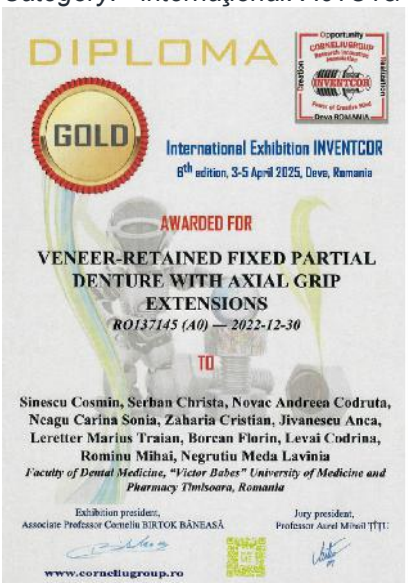
Dental impression device for carrying out fixed prosthetic restorations, has covering segments that provide
compliance with configuration of dental arch to perform restoration, and height of structure set to average
height of abutments
Patent Number(s): RO134613-A0
Inventor(s): COJOCARIU A C, SINESCU C, LASZLO K, NEGRUTIU M L, ROMINU M, LERETTER M T, JIVANESCU A, CRACIUNESCU E L, NEAGU C S, LEVAI C
Patent Assignee Name(s) and Code(s): UNIV TIMISOARA MEDICINA SI FARM BABES (UYTI-Non-standard)
Derwent Primary Accession Number: 2021-02305M



INTERNATIONAL EXHIBITION INVENTCOR, Deva, Romania 3-5 Aprilie, 2025

6th International Exhibition INVENTCOR 3-5 April 2025 - Deva, Romania

Title: Veneer-Retained Fixed Partial Denture with Axial Grip Extensions
Patent/project number: RO137145 (A0) — 2022-12-30
Author/s: SINESCU COSMIN, ȘERBAN CHRISTA, NOVAC ANDREEA CODRUȚA, NEAGU CARINA SONIA, ZAHARIA CRISTIAN, JIVĂNESCU ANCA, LERETTER MARIUS TRAIAN, BORCAN FLORIN, LEVAI CODRINA, ROMÎNU MIHAI, NEGRUŢIU MEDA LAVINIA
Institution/Country: "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY of TIMIȘOARA, Romania
Category: - internaţional: A61C13/00; A61C5/20-cooperative



EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION E U R O I N V E N T IAŞI – ROMANIA XVII th Edition, 8 th - 10th May 2025

EUROPEAN EXHIBITION OF CREATIVITY AND INNOVATION
EUROINVENT
IAȘI – ROMANIA
XVII th Edition, 8th - 10th May 2025
ICIR Euroinvent 2025

Title: Veneer-Retained Fixed Partial Denture with Axial Grip Extensions
Patent/project number: RO137145 (A0) — 2022-12-30
Author/s: SINESCU COSMIN, ȘERBAN CHRISTA, NOVAC ANDREEA CODRUȚA, NEAGU CARINA SONIA, ZAHARIA CRISTIAN, JIVĂNESCU ANCA, LERETTER MARIUS TRAIAN, BORCAN FLORIN, LEVAI CODRINA, ROMÎNU MIHAI, NEGRUŢIU MEDA LAVINIA
Institution/Country: "VICTOR BABEȘ" UNIVERSITY OF MEDICINE AND PHARMACY of TIMIȘOARA, Romania
Category: - internaţional: A61C13/00; A61C5/20-cooperative

Salonul Internaţional de Inventică şi Antreprenoriat Inovativ

Title: Veneer-Retained Fixed Partial Denture with Axial Grip Extensions
Author/s: Mostovei Andrei, Jian Mariana, Sinescu Cosmin, Şerban Christa, Novac Andreea Codruța, Neagu Carina Sonia, Zaharia Cristian, Jivănescu Anca, Leretter Marius Traian, Borcan Florin, Levai Codrina, Romînu Mihai, Negruţiu Meda Lavinia
Patent: RO137145 (A0) — 2022-12-30

Competenţe şi aptitudini tehnice	Utilizarea de dispozitive tehnice si tehnologice implicate in tehnica dentara, stomatologie, optica electronica, holografie, investigatii invazive si noninvazive
Competenţe şi aptitudini de utilizare a calculatorului	Utilizare PC si MAC
Competenţe şi aptitudini artistice	Dans sportiv
Alte competenţe şi aptitudini	Literatura si filme science fiction
Permis(e) de conducere	Deţin un permis de conducere, categoria B, C, E
Informaţii suplimentare	Includeţi aici orice alte informaţii utile, care nu au fost menţionate anterior, de exemplu: persoane de contact, referinţe etc. (Rubrică facultativă, vezi instrucţiunile)
Anexe	Scopus: h-index 18 Google Scholar : h-index 21 Google Scholar : i-10-index 52 WOS: h-index 15