



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJMRI: December-2021: Page No: 584-625

Open Journal of Radiology and Medical Imaging

Review Article

ISSN : 2583-1534

Open Access

Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

Alireza Heidari^{1,2,3,4,*}, Ricardo Gobato^{5,6} and Abhijit Mitra⁷

¹Faculty of Chemistry, California South University, 14731 Comet St. Irvine, CA 92604, USA

²BioSpectroscopy Core Research Laboratory, California South University, 14731 Comet St. Irvine, CA 92604, USA

³Cancer Research Institute (CRI), California South University, 14731 Comet St. Irvine, CA 92604, USA

⁴American International Standards Institute, Irvine, CA 3800, USA

⁵Green Land Landscaping and Gardening, Seedling Growth Laboratory, Bela Vista do Paraíso, 86130-000, Parana, Brazil

⁶Secretary of Education and Sports of the State of Parana, Laboratory of Biophysics and Molecular Modeling Genesis, Parana, 86130-000, Brazil

⁷Department of Marine Science, University of Calcutta, 35 B. C Road, Kolkata, 700019, West Bengal, India

***Corresponding Author:** Alireza Heidari, Faculty of Chemistry, California South University, 14731 Comet St. Irvine, CA 92604, USA, email id: Scholar.Researcher.Scientist@gmail.com; Alireza.Heidari@calsu.us; Central@aisi-usa.org

Received Date: Nov 30, 2021 / **Accepted Date:** Dec 15, 2021 / **Published Date:** Dec 20, 2021

Abstract

Unprecedented studies have shown that slow-growing breast cancers can be treated with highly targeted tumor cryopreservation technology without the need for surgery. Experiments show that this method is effective in women with low-risk breast cancer over the age of 60. Cryoablation is a solution that eliminates breast tumors safely, quickly and painlessly or without the need for surgery. Takes. This method exposes the patient's tissues to severe cold to remove them without the need for anesthesia in the clinic. The new study, which involved about 200 women, found that after eliminating low-risk breast cancer, patients were left without cancer for three years. This treatment can be used to treat cancers of the bone, kidney, prostate and other types. Unlike lumpectomy or mastectomy, which involves removing the breast from the body, cryoectomy or cryopreservation of tumors preserve breast size, reduce the risk of infection and prevent scarring, and allow patients to function normally quickly, the researchers said. Resume yourself.

Keywords: Cancer; Cells; Tissues; Tumors; Prevention; Prognosis; Diagnosis; Imaging; Screening, Treatment; Management



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

Cite this article as: Alireza Heidari, Ricardo Gobato, Abhijit Mitra. 2021. Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring . O J Radio Med Img. 4: 584-625.

Copyright: This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited. Copyright © 2021; Alireza Heidari

Introduction

Dietary fiber, which is abundant in whole grains (whole grains) of vegetables and fruits, can help prevent breast cancer. California South University (CSU) researchers conducted a study on more than 44 women who found that girls who ate more than They consumed 28 grams of dietary fiber in high school, compared to girls who consumed less than 15 grams of dietary fiber per day, 13 percent less likely to develop breast cancer. Causes a decrease in the hormone "estrogen" in the blood; An issue that may increase the growth of some cancer cells. The recommended amount of dietary fiber can be achieved through breakfast. In addition to eating whole-grain breads and five regular servings of vegetables and fruits, wheat bran, flaxseed, and all whole grains (grains whose bran and sprouts are not separated) are also high in fiber. Previous studies at California South University (CSU) have shown the importance of following a vegetarian diet to prevent breast cancer; Because yellow plant pigments known as "carotenoids" can reduce the risk of breast cancer. These pigments are found in fruits, vegetables, yellow, red and green. Eating plenty of vegetables and fruits helps maintain weight, which is also a very important factor in preventing cancer, especially after menopause [1-567].

Results and Discussion

Although the exact cause of breast cancer has not yet been identified, there are several factors involved in the development of this disease, including: 1- Increasing age only 10 to 15% of breast cancers are seen in women under 40

years of age. While women over 60 are more prone to this disease. 2- Family history People with a history of breast cancer among their first-degree family members are twice as likely as others. 3- Gene mutations Some inherited gene mutations increase the chances of getting this cancer. Genetic tests show the incidence of genetic problems, especially in people with a family history. Predisposing factors: Obesity, especially abdominal fat, sedentary lifestyle and poor diet, glandular tissue and dense fat in the breast, infertility or pregnancy in old age (35 years) or in other words, the first pregnancy after the age of 30 and long-term use of hormones are among the predisposing factors. Breast cancer. Symptoms of breast cancer: Swelling of all or part of the breast, Cavity Cavitation of the skin (similar to orange peel), the pain, Nipple indentation, Redness, scaling or thickening of the breast skin and Secretion A sure way to diagnose One of the best and most accurate screening methods in diagnosing breast cancer is mammography. Mammography with advanced devices with low radiation, without any complications is able to detect intangible masses and calcareous deposits that form before cancer. Self-examination for early detection: look: In some cases, breast cancer causes changes in its appearance that can be detected by looking; Therefore, you need to be familiar with the appearance of your body to be able to detect any possible changes. 1- Hang your hands on both sides of your body. 2- Pull the arms straight up from the side of your head. 3- Bend the hands from the elbows and press to the waist (press the hands to the waist and press). 4- Pull the arms straight forward and bend slightly forward. Take seriously any abnormal changes such as redness, dents and scaling, deviations or bumps. Touch: It is better



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

to use the end of the last paragraph of the middle three fingers. Never squeeze the breast tissue between your fingers, as you will falsely feel the mass. While there really is no mass. The area between the collarbone from above, the sternum and armpit bones on both sides, and two fingers below the lower edge of the chest at the lower extremity elastic should be examined. ways of prevention: Choosing a healthy lifestyle, Smoking cessation, Weight control, Proper physical activity, Breastfeeding Pregnancy at the right age (20 to 35 years), healthy diet, reduce exposure to laboratory radiation, Limit hormonal therapies, consume a variety of vitamins and nutrients and Adequate sleep and avoid stress.

Conclusions

The importance of recognizing the protrusions inside the breasts as soon as possible has always been emphasized. But did you know that breast cancer has lesser-known symptoms that may not be detected on personal examination or mammography? In the following, we will get acquainted with these symptoms. Discharge from the nipple an abnormal discharge from the nipple can be a sign of a breast problem. A discharge from the nipple that is bloody or pink and generally from only one breast is probably a sign of breast cancer, especially if the discharge is persistent. Skin changes Skin changes are one of the most common lesser-known symptoms of breast cancer. Thickening or redness of the skin, along with a slight puffiness like orange peel is a sign. In this case, like orange peel, small holes are seen at the site of hair follicles. Skin changes such as thickening, piercing, and discoloration of the skin can be signs of breast cancer. Nipple scaling Redness, scaling or dryness and tightness of the nipple or ring around it may be a sign of Paget's disease, which can be an early sign of breast cancer. Skin changes on the nipples are often more like benign problems such as eczema or psoriasis, but the traditional treatments used for these problems do not work

and instead get worse. Chest deformity or enlargement Enlarged breasts - especially if only one breast is swollen - or deformed breasts can be a sign of a problem with breast tissue. Breast deformity so that the overall shape of the breast is abnormal and there is a bulge in one part of the breast can be a sign of cancer. It may be like a bulge or just a part of the breast that is tighter and you do not feel a lump inside when you touch it. Also, this bulge or stiffness is more pronounced in most cases when the body is in other positions. You go nipple Flattening or sagging of the nipple or changing its direction can be a sign of breast cancer. In this case, the nipple is placed in a different direction and position instead of being straight out or down. Flattening or sagging of the nipple is another sign of Paget's disease. Red or hot spots the presence of red or hot spots on the breast, which sometimes cover the entire breast, can be a sign of breast cancer. Although red or hot spots can be a sign of mastitis or a breast infection - an infectious disease that often occurs during breastfeeding - mastitis is usually accompanied by fever. If the red or hot spots are not accompanied by fever and are persistent and do not improve, it could mean breast cancer.

Acknowledgment

This study was supported by the Cancer Research Institute (CRI) Project of Scientific Instrument and Equipment Development, the National Natural Science Foundation of the United States, the International Joint BioSpectroscopy Core Research Laboratory Program supported by the California South University (CSU), and the Key project supported by the American International Standards Institute (AISI), Irvine, California, USA.

References

1. Heidari A, Brown C. 2015. Study of Composition and Morphology of Cadmium



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- Oxide (CdO) Nanoparticles for Eliminating Cancer Cells. *J Nanomed Res.* 2: 5.
- Heidari A, Brown C. 2015. Study of Surface Morphological, Phytochemical and Structural Characteristics of Rhodium (III) Oxide (Rh_2O_3) Nanoparticles. *International Journal of Pharmacology, Phytochemistry and Ethnomedicine.* 1: 15-19.
 - Heidari A. 2016. An Experimental Biospectroscopic Study on Seminal Plasma in Determination of Semen Quality for Evaluation of Male Infertility. *Int J Adv Technol.* 7: 007.
 - Heidari A. 2016. Extraction and Preconcentration of N-Tolyl-Sulfonyl-Phosphoramid-Saeure-Dichlorid as an Anti-Cancer Drug from Plants: A Pharmacognosy Study. *J Pharmacogn Nat Prod.* 2: 103.
 - Heidari A. 2016. A Thermodynamic Study on Hydration and Dehydration of DNA and RNA-Amphiphile Complexes. *J Bioeng Biomed Sci.* 006.
 - Heidari A. 2016. Computational Studies on Molecular Structures and Carbonyl and Ketene Groups' Effects of Singlet and Triplet Energies of Azidoketene $O=C=CH-NNN$ and Isocyanatoketene $O=C=CH-N=C=O$. *J Appl Computat Math.* 5: 142.
 - Heidari A. 2016. Study of Irradiations to Enhance the Induces the Dissociation of Hydrogen Bonds between Peptide Chains and Transition from Helix Structure to Random Coil Structure Using ATR-FTIR, Raman and 1H NMR Spectroscopies. *J Biomol Res Ther.* 5: 146.
 - Heidari A. 2016. Future Prospects of Point Fluorescence Spectroscopy, Fluorescence Imaging and Fluorescence Endoscopy in Photodynamic Therapy (PDT) for Cancer Cells. *J Bioanal Biomed.* 8: 135.
 - Heidari A. 2016. A Bio-Spectroscopic Study of DNA Density and Color Role as Determining Factor for Absorbed Irradiation in Cancer Cells. *Adv Cancer Prev.* 1: 102.
 - Heidari A. 2016. Manufacturing Process of Solar Cells Using Cadmium Oxide (CdO) and Rhodium (III) Oxide (Rh_2O_3) Nanoparticles. *J Biotechnol Biomater.* 6: 125.
 - Heidari A. 2016. A Novel Experimental and Computational Approach to Photobiosimulation of Telomeric DNA/RNA: A Biospectroscopic and Photobiological Study. *J Res Development.* 4: 144.
 - Heidari A. 2016. Biochemical and Pharmacodynamical Study of Microporous Molecularly Imprinted Polymer Selective for Vancomycin, Teicoplanin, Oritavancin, Telavancin and Dalbavancin Binding. *Biochem Physiol.* 5: 146.
 - Heidari A. 2016. Anti-Cancer Effect of UV Irradiation at Presence of Cadmium Oxide (CdO) Nanoparticles on DNA of Cancer Cells: A Photodynamic Therapy Study. *Arch Cancer Res.* 4: 1.
 - Heidari A. 2016. Biospectroscopic Study on Multi-Component Reactions (MCRs) in Two A-Type and B-Type Conformations of Nucleic Acids to Determine Ligand Binding Modes, Binding Constant and Stability of Nucleic Acids in Cadmium Oxide (CdO) Nanoparticles-Nucleic Acids Complexes as Anti-Cancer Drugs. *Arch Cancer Res.* 4: 2.
 - Heidari A. 2016. Simulation of Temperature Distribution of DNA/RNA of Human Cancer Cells Using Time-Dependent Bio-Heat Equation and Nd: YAG Lasers. *Arch Cancer Res.* 4: 2.
 - Heidari A. 2016. Quantitative Structure-Activity Relationship (QSAR) Approximation for Cadmium Oxide (CdO) and Rhodium (III) Oxide (Rh_2O_3) Nanoparticles as Anti-Cancer Drugs for the Catalytic Formation of Proviral DNA from Viral RNA Using Multiple Linear and Non-Linear Correlation Approach. *Ann Clin Lab Res.* 4: 1.
 - Heidari A. 2016. Biomedical Study of Cancer Cells DNA Therapy Using Laser Irradiations at Presence of Intelligent Nanoparticles. *J Biomedical Sci.* 5: 2.
 - Heidari A. 2016. Measurement the Amount of Vitamin D2 (Ergocalciferol), Vitamin D3 (Cholecalciferol) and Absorbable Calcium (Ca^{2+}), Iron (II) (Fe^{2+}), Magnesium (Mg^{2+}), Phosphate (PO_4^-) and Zinc (Zn^{2+}) in Apricot Using High-Performance Liquid



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

Chromatography (HPLC) and Spectroscopic Techniques. *J Biom Biostat.* 7: 292.

19. Heidari A. 2016. Spectroscopy and Quantum Mechanics of the Helium Dimer (He_2^+), Neon Dimer (Ne_2^+), Argon Dimer (Ar_2^+), Krypton Dimer (Kr_2^+), Xenon Dimer (Xe_2^+), Radon Dimer (Rn_2^+) and Ununoctium Dimer (Uuo_2^+) Molecular Cations. *Chem Sci J.* 7: 112.

20. Heidari A. 2016. Human Toxicity Photodynamic Therapy Studies on DNA/RNA Complexes as a Promising New Sensitizer for the Treatment of Malignant Tumors Using Bio-Spectroscopic Techniques. *J Drug Metab Toxicol.* 7: 129.

21. Heidari A. 2016. Novel and Stable Modifications of Intelligent Cadmium Oxide (CdO) Nanoparticles as Anti-Cancer Drug in Formation of Nucleic Acids Complexes for Human Cancer Cells' Treatment. *Biochem Pharmacol (Los Angel).* 5: 207.

22. Heidari A. 2016. A Combined Computational and QM/MM Molecular Dynamics Study on Boron Nitride Nanotubes (BNNTs), Amorphous Boron Nitride Nanotubes (a-BNNTs) and Hexagonal Boron Nitride Nanotubes (h-BNNTs) as Hydrogen Storage. *Struct Chem Crystallogr Commun.* 2: 1.

23. Heidari A. 2016. Pharmaceutical and Analytical Chemistry Study of Cadmium Oxide (CdO) Nanoparticles Synthesis Methods and Properties as Anti-Cancer Drug and its Effect on Human Cancer Cells. *Pharm Anal Chem Open Access.* 2: 113.

24. Heidari A. 2016. A Chemotherapeutic and Biospectroscopic Investigation of the Interaction of Double-Standard DNA/RNA-Binding Molecules with Cadmium Oxide (CdO) and Rhodium (III) Oxide (Rh_2O_3) Nanoparticles as Anti-Cancer Drugs for Cancer Cells' Treatment. *Chemo Open Access* 5: 129.

25. Heidari A. 2016. Pharmacokinetics and Experimental Therapeutic Study of DNA and Other Biomolecules Using Lasers: Advantages and Applications. *J Pharmacokinet Exp Ther.* 1: 005.

26. Heidari A. 2016. Determination of Ratio and Stability Constant of DNA/RNA in Human Cancer Cells and Cadmium Oxide (CdO) Nanoparticles Complexes Using Analytical Electrochemical and Spectroscopic Techniques. *Insights Anal Electrochem.* 2: 1.

27. Heidari A. 2016. Discriminate between Antibacterial and Non-Antibacterial Drugs Artificial Neutral Networks of a Multilayer Perceptron (MLP) Type Using a Set of Topological Descriptors. *J Heavy Met Toxicity Dis.* 1: 2.

28. Heidari A. 2016. Combined Theoretical and Computational Study of the Belousov-Zhabotinsky Chaotic Reaction and Curtius Rearrangement for Synthesis of Mechlorethamine, Cisplatin, Streptozotocin, Cyclophosphamide, Melphalan, Busulphan and BCNU as Anti-Cancer Drugs. *Insights Med Phys.* 1: 2.

29. Heidari A. 2016. A Translational Biomedical Approach to Structural Arrangement of Amino Acids' Complexes: A Combined Theoretical and Computational Study. *Transl Biomed.* 7: 2.

30. Heidari A. 2016. Ab Initio and Density Functional Theory (DFT) Studies of Dynamic NMR Shielding Tensors and Vibrational Frequencies of DNA/RNA and Cadmium Oxide (CdO) Nanoparticles Complexes in Human Cancer Cells. *J Nanomedicine Biotherapeutic Discov.* 6: 144.

31. Heidari A. 2016. Molecular Dynamics and Monte-Carlo Simulations for Replacement Sugars in Insulin Resistance, Obesity, LDL Cholesterol, Triglycerides, Metabolic Syndrome, Type 2 Diabetes and Cardiovascular Disease: A Glycobiological Study. *J Glycobiol.* 5: 111.

32. Heidari A. 2016. Synthesis and Study of 5-[(Phenylsulfonyl)Amino]1,3,4-Thiadiazole-2-Sulfonamide as Potential Anti-Pertussis Drug Using Chromatography and Spectroscopy Techniques. *Transl Med (Sunnyvale).* 6: 138.

33. Heidari A. 2016. Nitrogen, Oxygen, Phosphorus and Sulphur Heterocyclic Anti-Cancer Nano Drugs Separation in the Supercritical Fluid of Ozone (O_3) Using Soave-



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- Redlich-Kwong (SRK) and Pang-Robinson (PR) Equations. *Electronic J Biol* 12: 4.
34. Heidari A. 2016. An Analytical and Computational Infrared Spectroscopic Review of Vibrational Modes in Nucleic Acids. *Austin J Anal Pharm Chem*. 3: 1058.
35. Heidari A, Brown C. 2016. Phase, Composition and Morphology Study and Analysis of Os-Pd/HfC Nanocomposites. *Nano Res Appl*. 2: 1.
36. Heidari A, Brown C. 2016. Vibrational Spectroscopic Study of Intensities and Shifts of Symmetric Vibration Modes of Ozone Diluted by Cumene. *International Journal of Advanced Chemistry*. 4: 5-9.
37. Heidari A. 2016. Study of the Role of Anti-Cancer Molecules with Different Sizes for Decreasing Corresponding Bulk Tumor Multiple Organs or Tissues. *Arch Can Res*. 4: 2.
38. Heidari A. 2016. Genomics and Proteomics Studies of Zolpidem, Necopidem, Alpidem, Saripidem, Miroprofen, Zolimidine, Olprinone and Abafungin as Anti-Tumor, Peptide Antibiotics, Antiviral and Central Nervous System (CNS) Drugs. *J Data Mining Genomics & Proteomics*. 7: 125.
39. Heidari A. 2016. Pharmacogenomics and Pharmacoproteomics Studies of Phosphodiesterase-5 (PDE5) Inhibitors and Paclitaxel Albumin-Stabilized Nanoparticles as Sandwiched Anti-Cancer Nano Drugs between Two DNA/RNA Molecules of Human Cancer Cells. *J Pharmacogenomics Pharmacoproteomics*. 7: 153.
40. Heidari A. 2016. Biotranslational Medical and Biospectroscopic Studies of Cadmium Oxide (CdO) Nanoparticles-DNA/RNA Straight and Cycle Chain Complexes as Potent Anti-Viral, Anti-Tumor and Anti-Microbial Drugs: A Clinical Approach. *Transl Biomed*. 7: 2.
41. Heidari A. 2016. A Comparative Study on Simultaneous Determination and Separation of Adsorbed Cadmium Oxide (CdO) Nanoparticles on DNA/RNA of Human Cancer Cells Using Biospectroscopic Techniques and Dielectrophoresis (DEP) Method. *Arch Can Res*. 4: 2.
42. Heidari A. 2016. Cheminformatics and System Chemistry of Cisplatin, Carboplatin, Nedaplatin, Oxaliplatin, Heptaplatin and Lobaplatin as Anti-Cancer Nano Drugs: A Combined Computational and Experimental Study. *J Inform Data Min* 1: 3.
43. Heidari A. 2016. Linear and Non-Linear Quantitative Structure-Anti-Cancer-Activity Relationship (QSACAR) Study of Hydrrous Ruthenium (IV) Oxide (RuO₂) Nanoparticles as Non-Nucleoside Reverse Transcriptase Inhibitors (NNRTIs) and Anti-Cancer Nano Drugs. *J Integr Oncol*. 5: 110.
44. Heidari A. 2016. Synthesis, Characterization and Biospectroscopic Studies of Cadmium Oxide (CdO) Nanoparticles-Nucleic Acids Complexes Absence of Soluble Polymer as a Protective Agent Using Nucleic Acids Condensation and Solution Reduction Method. *J Nanosci Curr Res*. 1: 101.
45. Heidari A. 2016. Coplanarity and Collinearity of 4'-Dinonyl-2,2'-Bithiazole in One Domain of Bleomycin and Pingyangmycin to be Responsible for Binding of Cadmium Oxide (CdO) Nanoparticles to DNA/RNA Bidentate Ligands as Anti-Tumor Nano Drug. *Int J Drug Dev & Res*. 8: 7-8.
46. Heidari A. 2016. A Pharmacovigilance Study on Linear and Non-Linear Quantitative Structure (Chromatographic) Retention Relationships (QSRR) Models for the Prediction of Retention Time of Anti-Cancer Nano Drugs under Synchrotron Radiations. *J Pharmacovigil*. 4: 161.
47. Heidari A. 2016. Nanotechnology in Preparation of Semipermeable Polymers. *J Adv Chem Eng* 6: 157.
48. Heidari A. 2016. A Gastrointestinal Study on Linear and Non-Linear Quantitative Structure (Chromatographic) Retention Relationships (QSRR) Models for Analysis 5-Aminosalicylates Nano Particles as Digestive System Nano Drugs under Synchrotron Radiations. *J Gastrointest Dig Syst*. 6: 119.
49. Heidari A. 2016. DNA/RNA Fragmentation and Cytolysis in Human Cancer Cells Treated



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- with Diphthamide Nano Particles Derivatives. *Biomedical Data Mining*. 5: 102.
50. Heidari A. 2016. A Successful Strategy for the Prediction of Solubility in the Construction of Quantitative Structure-Activity Relationship (QSAR) and Quantitative Structure-Property Relationship (QSPR) under Synchrotron Radiations Using Genetic Function Approximation (GFA) Algorithm. *J Mol Biol Biotechnol*. 1: 1.
51. A. Heidari, "Computational Study on Molecular Structures of C₂₀, C₆₀, C₂₄₀, C₅₄₀, C₉₆₀, C₂₁₆₀ and C₃₈₄₀ Fullerene Nano Molecules under Synchrotron Radiations Using Fuzzy Logic", *J Material Sci Eng* 5: 282, 2016.
52. Heidari A. 2016. Graph Theoretical Analysis of Zigzag Polyhexamethylene Biguanide, Polyhexamethylene Adipamide, Polyhexamethylene Biguanide Gauze and Polyhexamethylene Biguanide Hydrochloride (PHMB) Boron Nitride Nanotubes (BNNTs), Amorphous Boron Nitride Nanotubes (a-BNNTs) and Hexagonal Boron Nitride Nanotubes (h-BNNTs). *J Appl Computat Math*. 5: 143.
53. Heidari A. 2016. The Impact of High-Resolution Imaging on Diagnosis. *Int J Clin Med Imaging* 3: 101.
54. Heidari A. 2016. A Comparative Study of Conformational Behavior of Isotretinoin (13-Cis Retinoic Acid) and Tretinoin (All-Trans Retinoic Acid (ATRA)) Nano Particles as Anti-Cancer Nano Drugs under Synchrotron Radiations Using Hartree-Fock (HF) and Density Functional Theory (DFT) Methods. *Insights in Biomed*. 1: 2.
55. Heidari A. 2016. Advances in Logic, Operations and Computational Mathematics. *J Appl Computat Math*. 5: 5.
56. Heidari A. 2016. Mathematical Equations in Predicting Physical Behavior. *J Appl Computat Math*. 5: 5.
57. Heidari A. 2016. Chemotherapy a Last Resort for Cancer Treatment. *Chemo Open Access*. 5: 4.
58. Heidari A. 2016. Separation and Pre-Concentration of Metal Cations-DNA/RNA Chelates Using Molecular Beam Mass Spectrometry with Tunable Vacuum Ultraviolet (VUV) Synchrotron Radiation and Various Analytical Methods. *Mass Spectrom Purif Tech*. 2: 101.
59. Heidari A. 2016. Yoctosecond Quantitative Structure-Activity Relationship (QSAR) and Quantitative Structure-Property Relationship (QSPR) under Synchrotron Radiations Studies for Prediction of Solubility of Anti-Cancer Nano Drugs in Aqueous Solutions Using Genetic Function Approximation (GFA) Algorithm. *Insight Pharm Res*. 1: 1.
60. Heidari A. 2016. Cancer Risk Prediction and Assessment in Human Cells under Synchrotron Radiations Using Quantitative Structure Activity Relationship (QSAR) and Quantitative Structure Properties Relationship (QSPR) Studies. *Int J Clin Med Imaging*. 3: 516.
61. Heidari A. 2016. A Novel Approach to Biology. *Electronic J Biol*. 12: 4.
62. Heidari A. 2016. Innovative Biomedical Equipment's for Diagnosis and Treatment. *J Bioengineer & Biomedical Sci*. 6: 2.
63. Heidari A. 2016. Integrating Precision Cancer Medicine into Healthcare, Medicare Reimbursement Changes and the Practice of Oncology: Trends in Oncology Medicine and Practices. *J Oncol Med & Pract*. 1: 2.
64. Heidari A. 2016. Promoting Convergence in Biomedical and Biomaterials Sciences and Silk Proteins for Biomedical and Biomaterials Applications: An Introduction to Materials in Medicine and Bioengineering Perspectives. *J Bioengineer & Biomedical Sci*. 6: 3.
65. Heidari A. 2017. X-Ray Fluorescence and X-Ray Diffraction Analysis on Discrete Element Modeling of Nano Powder Metallurgy Processes in Optimal Container Design. *J Powder Metall Min*. 6: 1.
66. Heidari A. 2017. Biomolecular Spectroscopy and Dynamics of Nano-Sized Molecules and Clusters as Cross-Linking-Induced Anti-Cancer and Immune-Oncology Nano Drugs Delivery in DNA/RNA of Human Cancer Cells' Membranes under Synchrotron Radiations: A Payload-Based Perspective. *Arch Chem Res*. 1: 2.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

67. Heidari A. 2017. Deficiencies in Repair of Double-Standard DNA/RNA-Binding Molecules Identified in Many Types of Solid and Liquid Tumors Oncology in Human Body for Advancing Cancer Immunotherapy Using Computer Simulations and Data Analysis: Number of Mutations in a Synchronous Tumor Varies by Age and Type of Synchronous Cancer. *J Appl Bioinforma Comput Biol*. 6: 1.
68. Heidari A. 2017. Electronic Coupling among the Five Nanomolecules Shuts Down Quantum Tunneling in the Presence and Absence of an Applied Magnetic Field for Indication of the Dimer or other Provide Different Influences on the Magnetic Behavior of Single Molecular Magnets (SMMs) as Qubits for Quantum Computing. *Glob J Res Rev*. 4: 2.
69. Heidari A. 2017. Polymorphism in Nano-Sized Graphene Ligand-Induced Transformation of Au₃₈-xAg_x/xCu_x(SPh-tBu)₂₄ to Au₃₆-xAg_x/xCu_x(SPh-tBu)₂₄ (x = 1-12) Nanomolecules for Synthesis of Au₁₄₄-xAg_x/xCu_x[(SR)₆₀, (SC₄)₆₀, (SC₆)₆₀, (SC₁₂)₆₀, (PET)₆₀, (p-MBA)₆₀, (F)₆₀, (Cl)₆₀, (Br)₆₀, (I)₆₀, (At)₆₀, (Uus)₆₀ and (SC₆H₁₃)₆₀] Nano Clusters as Anti-Cancer Nano Drugs. *J Nanomater Mol Nanotechnol*. 6: 3.
70. Heidari A. 2017. Biomedical Resource Oncology and Data Mining to Enable Resource Discovery in Medical, Medicinal, Clinical, Pharmaceutical, Chemical and Translational Research and Their Applications in Cancer Research. *Int J Biomed Data Min*. 6: 103.
71. Heidari A. 2017. Study of Synthesis, Pharmacokinetics, Pharmacodynamics, Dosing, Stability, Safety and Efficacy of Olympiadane Nanomolecules as Agent for Cancer Enzymotherapy, Immunotherapy, Chemotherapy, Radiotherapy, Hormone Therapy and Targeted Therapy under Synchrotron Radiation. *J Dev Drugs*. 6: 154.
72. Heidari A. 2017. A Novel Approach to Future Horizon of Top Seven Biomedical Research Topics to Watch in 2017: Alzheimer's, Ebola, Hypersomnia, Human Immunodeficiency Virus (HIV), Tuberculosis (TB), Microbiome/Antibiotic Resistance and Endovascular Stroke. *J Bioengineer & Biomedical Sci* 7: 127.
73. Heidari A. 2017. Opinion on Computational Fluid Dynamics (CFD) Technique. *Fluid Mech Open Acc*. 4: 157.
74. Heidari A. 2017. Concurrent Diagnosis of Oncology Influence Outcomes in Emergency General Surgery for Colorectal Cancer and Multiple Sclerosis (MS) Treatment Using Magnetic Resonance Imaging (MRI) and Au₃₂₉(SR)₈₄, Au₃₂₉-xAg_x(SR)₈₄, Au₁₄₄(SR)₆₀, Au₆₈(SR)₃₆, Au₃₀(SR)₁₈, Au₁₀₂(SPh)₄₄, Au₃₈(SPh)₂₄, Au₃₈(SC₂H₄Ph)₂₄, Au₂₁S(SAdm)₁₅, Au₃₆(pMBA)₂₄ and Au₂₅(pMBA)₁₈ Nano Clusters. *J Surgery Emerg Med* 1: 21.
75. Heidari A. 2017. Developmental Cell Biology in Adult Stem Cells Death and Autophagy to Trigger a Preventive Allergic Reaction to Common Airborne Allergens under Synchrotron Radiation Using Nanotechnology for Therapeutic Goals in Particular Allergy Shots (Immunotherapy). *Cell Biol (Henderson, NV)*. 6: 1.
76. Heidari A. 2017. Changing Metal Powder Characteristics for Elimination of the Heavy Metals Toxicity and Diseases in Disruption of Extracellular Matrix (ECM) Proteins Adjustment in Cancer Metastases Induced by Osteosarcoma, Chondrosarcoma, Carcinoid, Carcinoma, Ewing's Sarcoma, Fibrosarcoma and Secondary Hematopoietic Solid or Soft Tissue Tumors. *J Powder Metall Min*. 6: 170.
77. Heidari A. 2017. Nanomedicine-Based Combination Anti-Cancer Therapy between Nucleic Acids and Anti-Cancer Nano Drugs in Covalent Nano Drugs Delivery Systems for Selective Imaging and Treatment of Human Brain Tumors Using Hyaluronic Acid, Alguronic Acid and Sodium Hyaluronate as Anti-Cancer Nano Drugs and Nucleic Acids Delivery under Synchrotron Radiation. *Am J Drug Deliv* 5: 2.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

78. Heidari A. 2017. Clinical Trials of Dendritic Cell Therapies for Cancer Exposing Vulnerabilities in Human Cancer Cells' Metabolism and Metabolomics: New Discoveries, Unique Features Inform New Therapeutic Opportunities, Biotech's Bumpy Road to the Market and Elucidating the Biochemical Programs that Support Cancer Initiation and Progression. *J Biol Med Science*. 1: 103.
79. Heidari A. 2017. The Design Graphene-Based Nanosheets as a New Nanomaterial in Anti-Cancer Therapy and Delivery of Chemotherapeutics and Biological Nano Drugs for Liposomal Anti-Cancer Nano Drugs and Gene Delivery. *Br Biomed Bull*. 5: 305.
80. Heidari A. 2017. Integrative Approach to Biological Networks for Emerging Roles of Proteomics, Genomics and Transcriptomics in the Discovery and Validation of Human Colorectal Cancer Biomarkers from DNA/RNA Sequencing Data under Synchrotron Radiation. *Transcriptomics*. 5: 117.
81. Heidari A. 2017. Elimination of the Heavy Metals Toxicity and Diseases in Disruption of Extracellular Matrix (ECM) Proteins and Cell Adhesion Intelligent Nanomolecules Adjustment in Cancer Metastases Using Metalloenzymes and under Synchrotron Radiation. *Lett Health Biol Sci*. 2: 1-4.
82. Heidari A. 2017. Treatment of Breast Cancer Brain Metastases through a Targeted Nanomolecule Drug Delivery System Based on Dopamine Functionalized Multi-Wall Carbon Nanotubes (MWCNTs) Coated with Nano Graphene Oxide (GO) and Protonated Polyaniline (PANI) in Situ During the Polymerization of Aniline Autogenic Nanoparticles for the Delivery of Anti-Cancer Nano Drugs under Synchrotron Radiation. *Br J Res*. 4: 16.
83. Heidari A. 2017. Sedative, Analgesic and Ultrasound-Mediated Gastrointestinal Nano Drugs Delivery for Gastrointestinal Endoscopic Procedure, Nano Drug-Induced Gastrointestinal Disorders and Nano Drug Treatment of Gastric Acidity. *Res Rep Gastroenterol*. 1: 1.
84. Heidari A. 2017. Synthesis, Pharmacokinetics, Pharmacodynamics, Dosing, Stability, Safety and Efficacy of Orphan Nano Drugs to Treat High Cholesterol and Related Conditions and to Prevent Cardiovascular Disease under Synchrotron Radiation. *J Pharm Sci Emerg Drugs*. 5: 1.
85. Heidari A. 2017. Non-Linear Compact Proton Synchrotrons to Improve Human Cancer Cells and Tissues Treatments and Diagnostics through Particle Therapy Accelerators with Monochromatic Microbeams. *J Cell Biol Mol Sci*. 2: 1-5.
86. Heidari A. 2017. Design of Targeted Metal Chelation Therapeutics Nanocapsules as Colloidal Carriers and Blood-Brain Barrier (BBB) Translocation to Targeted Deliver Anti-Cancer Nano Drugs into the Human Brain to Treat Alzheimer's Disease under Synchrotron Radiation. *J Nanotechnol Material Sci* 4: 1-5.
87. Gobato R, Heidari A. 2017. Calculations Using Quantum Chemistry for Inorganic Molecule Simulation BeLi₂SeSi. *Science Journal of Analytical Chemistry*. 5: 76-85.
88. Heidari A. 2017. Different High-Resolution Simulations of Medical, Medicinal, Clinical, Pharmaceutical and Therapeutics Oncology of Human Lung Cancer Translational Anti-Cancer Nano Drugs Delivery Treatment Process under Synchrotron and X-Ray Radiations. *J Med Oncol*. 1: 1.
89. Heidari A. 2017. A Modern Ethnomedicinal Technique for Transformation, Prevention and Treatment of Human Malignant Gliomas Tumors into Human Benign Gliomas Tumors under Synchrotron Radiation. *Am J Ethnomed*. 1: 10.
90. Heidari A. 2017. Active Targeted Nanoparticles for Anti-Cancer Nano Drugs Delivery across the Blood-Brain Barrier for Human Brain Cancer Treatment, Multiple Sclerosis (MS) and Alzheimer's Diseases Using Chemical Modifications of Anti-Cancer Nano Drugs or Drug-Nanoparticles through Zika Virus (ZIKV) Nanocarriers under Synchrotron Radiation. *J Med Chem Toxicol*. 2: 1-5.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

91. Heidari A. 2017. Investigation of Medical, Medicinal, Clinical and Pharmaceutical Applications of Estradiol, Mestranol (Norlutin), Norethindrone (NET), Norethisterone Acetate (NETA), Norethisterone Enanthate (NETE) and Testosterone Nanoparticles as Biological Imaging, Cell Labeling, Anti-Microbial Agents and Anti-Cancer Nano Drugs in Nanomedicines Based Drug Delivery Systems for Anti-Cancer Targeting and Treatment. *Parana Journal of Science and Education (PJSE)*-v. 3: 10-19.
92. Heidari A. 2017. A Comparative Computational and Experimental Study on Different Vibrational Biospectroscopy Methods, Techniques and Applications for Human Cancer Cells in Tumor Tissues Simulation, Modeling, Research, Diagnosis and Treatment. *Open J Anal Bioanal Chem.* 1: 014-020.
93. Heidari A. 2017. Combination of DNA/RNA Ligands and Linear/Non-Linear Visible-Synchrotron Radiation-Driven N-Doped Ordered Mesoporous Cadmium Oxide (CdO) Nanoparticles Photocatalysts Channels Resulted in an Interesting Synergistic Effect Enhancing Catalytic Anti-Cancer Activity. *Enz Eng.* 6: 1.
94. Heidari A. 2017. Modern Approaches in Designing Ferritin, Ferritin Light Chain, Transferrin, Beta-2 Transferrin and Bacterioferritin-Based Anti-Cancer Nano Drugs Encapsulating Nanosphere as DNA-Binding Proteins from Starved Cells (DPS). *Mod Appro Drug Des.* 1: 504.
95. Heidari A. 2017. Potency of Human Interferon β -1a and Human Interferon β -1b in Enzymotherapy, Immunotherapy, Chemotherapy, Radiotherapy, Hormone Therapy and Targeted Therapy of Encephalomyelitis Disseminate/Multiple Sclerosis (MS) and Hepatitis A, B, C, D, E, F and G Virus Enter and Targets Liver Cells. *J Proteomics Enzymol.* 6: 1.
96. Heidari A. 2017. Transport Therapeutic Active Targeting of Human Brain Tumors Enable Anti-Cancer Nanodrugs Delivery across the Blood-Brain Barrier (BBB) to Treat Brain Diseases Using Nanoparticles and Nanocarriers under Synchrotron Radiation. *J Pharm Pharmaceutics.* 4: 1-5.
97. Heidari A, Brown C. 2017. Combinatorial Therapeutic Approaches to DNA/RNA and Benzylpenicillin (Penicillin G), Fluoxetine Hydrochloride (Prozac and Sarafem), Propofol (Diprivan), Acetylsalicylic Acid (ASA) (Aspirin), Naproxen Sodium (Aleve and Naprosyn) and Dextromethamphetamine Nanocapsules with Surface Conjugated DNA/RNA to Targeted Nano Drugs for Enhanced Anti-Cancer Efficacy and Targeted Cancer Therapy Using Nano Drugs Delivery Systems. *Ann Adv Chem.* 1: 61-69.
98. Heidari A. 2017. High-Resolution Simulations of Human Brain Cancer Translational Nano Drugs Delivery Treatment Process under Synchrotron Radiation. *J Transl Res.* 1: 1-3.
99. Heidari A. 2017. Investigation of Anti-Cancer Nano Drugs' Effects' Trend on Human Pancreas Cancer Cells and Tissues Prevention, Diagnosis and Treatment Process under Synchrotron and X-Ray Radiations with the Passage of Time Using Mathematica. *Current Trends Anal Bioanal Chem.* 1: 36-41.
100. Heidari A. 2017. Pros and Cons Controversy on Molecular Imaging and Dynamics of Double-Standard DNA/RNA of Human Preserving Stem Cells-Binding Nano Molecules with Androgens/Anabolic Steroids (AAS) or Testosterone Derivatives through Tracking of Helium-4 Nucleus (Alpha Particle) Using Synchrotron Radiation. *Arch Biotechnol Biomed.* 1: 067-0100.
101. Heidari A. 2017. Visualizing Metabolic Changes in Probing Human Cancer Cells and Tissues Metabolism Using Vivo ^1H or Proton NMR, ^{13}C NMR, ^{15}N NMR and ^{31}P NMR Spectroscopy and Self-Organizing Maps under Synchrotron Radiation. *SOJ Mater Sci Eng.* 5: 1-6.
102. Heidari A. 2017. Cavity Ring-Down Spectroscopy (CRDS), Circular Dichroism Spectroscopy, Cold Vapour Atomic Fluorescence Spectroscopy and Correlation



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrm.2021.110034> OJRM: December-2021: Page No: 584-625

Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Enliven: Challenges Cancer Detect Ther.* 4: 001.

103. Heidari A. 2017. Laser Spectroscopy, Laser-Induced Breakdown Spectroscopy and Laser-Induced Plasma Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Int J Hepatol Gastroenterol.* 3: 079-084.

104. Heidari A. 2017. Time-Resolved Spectroscopy and Time-Stretch Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Enliven: Pharmacovigilance and Drug Safety.* 4: 1.

105. Heidari A. 2017. Overview of the Role of Vitamins in Reducing Negative Effect of Decapeptyl (Triptorelin Acetate or Pamoate Salts) on Prostate Cancer Cells and Tissues in Prostate Cancer Treatment Process through Transformation of Malignant Prostate Tumors into Benign Prostate Tumors under Synchrotron Radiation. *Open J Anal Bioanal Chem.* 1: 21-26.

106. Heidari A. 2017. Electron Phenomenological Spectroscopy, Electron Paramagnetic Resonance (EPR) Spectroscopy and Electron Spin Resonance (ESR) Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Austin J Anal Pharm Chem.* 4: 1091.

107. Heidari A. 2017. Therapeutic Nanomedicine Different High-Resolution Experimental Images and Computational Simulations for Human Brain Cancer Cells and Tissues Using Nanocarriers Deliver DNA/RNA to Brain Tumors under Synchrotron Radiation with the Passage of Time Using Mathematica and MATLAB. *Madridge J Nano Tech. Sci.* 2: 77-83.

108. Heidari A. 2017. A Consensus and Prospective Study on Restoring Cadmium Oxide (CdO) Nanoparticles Sensitivity in

Recurrent Ovarian Cancer by Extending the Cadmium Oxide (CdO) Nanoparticles-Free Interval Using Synchrotron Radiation Therapy as Antibody-Drug Conjugate for the Treatment of Limited-Stage Small Cell Diverse Epithelial Cancers. *Cancer Clin Res Rep,* 1: 1.

109. Heidari A. 2017. A Novel and Modern Experimental Imaging and Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under White Synchrotron Radiation. *Cancer Sci Res Open Access.* 4: 1-8.

110. Heidari A. 2017. Different High-Resolution Simulations of Medical, Medicinal, Clinical, Pharmaceutical and Therapeutics Oncology of Human Breast Cancer Translational Nano Drugs Delivery Treatment Process under Synchrotron and X-Ray Radiations. *J Oral Cancer Res.* 1: 12-17.

111. Heidari A. 2017. Vibrational Decihertz (dHz), Centihertz (cHz), Millihertz (mHz), Microhertz (μ Hz), Nanohertz (nHz), Picohertz (pHz), Femtohertz (fHz), Attohertz (aHz), Zeptohertz (zHz) and Yoctohertz (yHz) Imaging and Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *International Journal of Biomedicine.* 7: 335-340.

112. Heidari A. 2017. Force Spectroscopy and Fluorescence Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *EC Cancer.* 2: 239-246.

113. Heidari A. 2017. Photoacoustic Spectroscopy, Photoemission Spectroscopy and Photothermal Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *BAOJ Cancer Res Ther.* 3: 45-52.

114. Heidari A. 2017. J-Spectroscopy, Exchange Spectroscopy (EXSY), Nucle- α r Overhauser Effect Spectroscopy (NOESY) and Total Correlation Spectroscopy (TOCSY) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *EMS Eng Sci J.* 1: 6-13.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

115. Heidari A. 2017. Neutron Spin Echo Spectroscopy and Spin Noise Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Int J Biopharm Sci.* 1: 103-107.
116. Heidari A. 2017. Vibrational Decahertz (daHz), Hectohertz (hHz), Kilohertz (kHz), Megahertz (MHz), Gigahertz (GHz), Terahertz (THz), Petahertz (PHz), Exahertz (EHz), Zettahertz (ZHz) and Yottahertz (YHz) Imaging and Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Madridge J Anal Sci Instrum.* 2: 41-46.
117. Heidari A. 2017. Two-Dimensional Infrared Correlation Spectroscopy, Linear Two-Dimensional Infrared Spectroscopy and Non-Linear Two-Dimensional Infrared Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *J Mater Sci Nanotechnol.* 6: 101.
118. Heidari A. 2018. Fourier Transform Infrared (FTIR) Spectroscopy, Near-Infrared Spectroscopy (NIRS) and Mid-Infrared Spectroscopy (MIRS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *Int J Nanotechnol Nanomed.* 3: 1-6.
119. Heidari A. 2018. Infrared Photo Dissociation Spectroscopy and Infrared Correlation Table Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *Austin Pharmacol Pharm.* 3: 1011.
120. Heidari A. 2018. Novel and Transcendental Prevention, Diagnosis and Treatment Strategies for Investigation of Interaction among Human Blood Cancer Cells, Tissues, Tumors and Metastases with Synchrotron Radiation under Anti-Cancer Nano Drugs Delivery Efficacy Using MATLAB Modeling and Simulation. *Madridge J Nov Drug Res.* 1: 18-24.
121. Heidari A. 2018. Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Open Access J Trans Med Res.* 2: 26-32.
122. Gobato MRR, Gobato R, Heidari A. 2018. Planting of Jaboticaba Trees for Landscape Repair of Degraded Area. *Landscape Architecture and Regional Planning.* 3: 1-9.
123. Heidari A. 2018. Fluorescence Spectroscopy, Phosphorescence Spectroscopy and Luminescence Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *SM J Clin. Med. Imaging.* 4: 1018.
124. Heidari A. 2018. Nuclear Inelastic Scattering Spectroscopy (NISS) and Nuclear Inelastic Absorption Spectroscopy (NIAS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Int J Pharm Sci.* 2: 1-14.
125. Heidari A. 2018. X-Ray Diffraction (XRD), Powder X-Ray Diffraction (PXRD) and Energy-Dispersive X-Ray Diffraction (EDXRD) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *J Oncol Res.* 2: 1-14.
126. Heidari A. 2018. Correlation Two-Dimensional Nuclear Magnetic Resonance (NMR) (2D-NMR) (COSY) Imaging and Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *EMS Can Sci.* 1.
127. Heidari A. 2018. Thermal Spectroscopy, Photothermal Spectroscopy, Thermal Microspectroscopy, Photothermal Microspectroscopy, Thermal Macroscopy and Photothermal Macroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *SM J Biometrics Biostat.* 3: 1024.
-



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

128. Heidari A. 2018. A Modern and Comprehensive Experimental Biospectroscopic Comparative Study on Human Common Cancers' Cells, Tissues and Tumors before and after Synchrotron Radiation Therapy. *Open Acc J Oncol Med.* 1.
129. Heidari A. 2018. Heteronuclear Correlation Experiments such as Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC), Heteronuclear Multiple-Quantum Correlation Spectroscopy (HMQC) and Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC) Comparative Study on Malignant and Benign Human Endocrinology and Thyroid Cancer Cells and Tissues under Synchrotron Radiation. *J Endocrinol Thyroid Res.* 3: 555603.
130. Heidari A. 2018. Nuclear Resonance Vibrational Spectroscopy (NRVS), Nuclear Inelastic Scattering Spectroscopy (NISS), Nuclear Inelastic Absorption Spectroscopy (NIAS) and Nuclear Resonant Inelastic X-Ray Scattering Spectroscopy (NRIXSS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Int J Bioorg Chem Mol Biol.* 6: 1-5.
131. Heidari A. 2018. A Novel and Modern Experimental Approach to Vibrational Circular Dichroism Spectroscopy and Video Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under White and Monochromatic Synchrotron Radiation. *Glob J Endocrinol Metab.* 1: 514-519.
132. Heidari A. 2018. Pros and Cons Controversy on Heteronuclear Correlation Experiments such as Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC), Heteronuclear Multiple-Quantum Correlation Spectroscopy (HMQC) and Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *EMS Pharma J.* 1: 2-8.
133. Heidari A. 2018. A Modern Comparative and Comprehensive Experimental Biospectroscopic Study on Different Types of Infrared Spectroscopy of Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *J Analyt Molecul Tech.* 3: 8.
134. Heidari A. 2018. Investigation of Cancer Types Using Synchrotron Technology for Proton Beam Therapy: An Experimental Biospectroscopic Comparative Study. *European Modern Studies Journal.* 2: 13-29.
135. Heidari A. 2018. Saturated Spectroscopy and Unsaturated Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Imaging J Clin Medical Sci.* 5: 1-7.
136. Heidari A. 2018. Small-Angle Neutron Scattering (SANS) and Wide-Angle X-Ray Diffraction (WAXD) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Int J Bioorg Chem Mol Biol.* 6: 1-6.
137. Heidari A. 2018. Investigation of Bladder Cancer, Breast Cancer, Colorectal Cancer, Endometrial Cancer, Kidney Cancer, Leukemia, Liver, Lung Cancer, Melanoma, Non-Hodgkin Lymphoma, Pancreatic Cancer, Prostate Cancer, Thyroid Cancer and Non-Melanoma Skin Cancer Using Synchrotron Technology for Proton Beam Therapy: An Experimental Biospectroscopic Comparative Study. *Ther Res Skin Dis* 1.
138. Heidari A. 2018. Attenuated Total Reflectance Fourier Transform Infrared (ATR-FTIR) Spectroscopy, Micro-Attenuated Total Reflectance Fourier Transform Infrared (Micro-ATR-FTIR) Spectroscopy and Macro-Attenuated Total Reflectance Fourier Transform Infrared (Macro-ATR-FTIR) Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *International Journal of Chemistry Papers.* 2: 1-12.
139. Heidari A. 2018. Mössbauer Spectroscopy, Mössbauer Emission Spectroscopy and ^{57}Fe Mössbauer Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

under Synchrotron Radiation. *Acta Scientific Cancer Biology*. 3: 17-20.

140. Heidari A. 2018. Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *Organic & Medicinal Chem IJ*. 6: 555676.

141. Heidari A. 2018. Correlation Spectroscopy, Exclusive Correlation Spectroscopy and Total Correlation Spectroscopy Comparative Study on Malignant and Benign Human AIDS-Related Cancers Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Int J Bioanal Biomed*. 2: 1-7.

142. Heidari A. 2018. Biomedical Instrumentation and Applications of Biospectroscopic Methods and Techniques in Malignant and Benign Human Cancer Cells and Tissues Studies under Synchrotron Radiation and Anti-Cancer Nano Drugs Delivery. *Am J Nanotechnol Nanomed*. 1: 1-9.

143. Heidari A. 2018. Vivo ¹H or Proton NMR, ¹³C NMR, ¹⁵N NMR and ³¹P NMR Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Ann Biomet Biostat*. 1: 1001.

144. Heidari A. 2018. Grazing-Incidence Small-Angle Neutron Scattering (GISANS) and Grazing-Incidence X-Ray Diffraction (GIXD) Comparative Study on Malignant and Benign Human Cancer Cells, Tissues and Tumors under Synchrotron Radiation. *Ann Cardiovasc Surg*. 1: 1006.

145. Heidari A. 2018. Adsorption Isotherms and Kinetics of Multi-Walled Carbon Nanotubes (MWCNTs), Boron Nitride Nanotubes (BNNTs), Amorphous Boron Nitride Nanotubes (a-BNNTs) and Hexagonal Boron Nitride Nanotubes (h-BNNTs) for Eliminating Carcinoma, Sarcoma, Lymphoma, Leukemia, Germ Cell Tumor and Blastoma Cancer Cells and Tissues. *Clin Med Rev Case Rep*. 5: 201.

146. Heidari A. 2018. Correlation Spectroscopy (COSY), Exclusive Correlation Spectroscopy (ECOSY), Total Correlation Spectroscopy

(TOCY), Incredible Natural-Abundance Double-Quantum Transfer Experiment (INADEQUATE), Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC), Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC), Nuclear Overhauser Effect Spectroscopy (NOESY) and Rotating Frame Nuclear Overhauser Effect Spectroscopy (ROESY) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Acta Scientific Pharmaceutical Sciences* 2. 5: 30-35.

147. Heidari A. 2018. Small-Angle X-Ray Scattering (SAXS), Ultra-Small Angle X-Ray Scattering (USAXS), Fluctuation X-Ray Scattering (FXS), Wide-Angle X-Ray Scattering (WAXS), Grazing-Incidence Small-Angle X-Ray Scattering (GISAXS), Grazing-Incidence Wide-Angle X-Ray Scattering (GIWAXS), Small-Angle Neutron Scattering (SANS), Grazing-Incidence Small-Angle Neutron Scattering (GISANS), X-Ray Diffraction (XRD), Powder X-Ray Diffraction (PXRD), Wide-Angle X-Ray Diffraction (WAXD), Grazing-Incidence X-Ray Diffraction (GIXD) and Energy-Dispersive X-Ray Diffraction (EDXRD) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Oncol Res Rev*. 1: 1-10.

148. Heidari A. 2018. Pump-Probe Spectroscopy and Transient Grating Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Adv Material Sci Engg*. 2: 1-7.

149. Heidari A. 2018. Grazing-Incidence Small-Angle X-Ray Scattering (GISAXS) and Grazing-Incidence Wide-Angle X-Ray Scattering (GIWAXS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Insights Pharmacol Pharm Sci*. 1: 1-8.

150. Acoustic Spectroscopy, Acoustic Resonance Spectroscopy and Auger Spectroscopy Comparative Study on Anti-Cancer Nano Drugs Delivery in Malignant and Benign Human Cancer Cells and Tissues with



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

the Passage of Time under Synchrotron Radiation. *Nanosci Technol.* 5: 1-9.

151. Heidari A. 2018. Niobium, Technetium, Ruthenium, Rhodium, Hafnium, Rhenium, Osmium and Iridium Ions Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Nanomed Nanotechnol*, 3: 138.

152. Heidari A. 2018. Homonuclear Correlation Experiments such as Homonuclear Single-Quantum Correlation Spectroscopy (HSQC), Homonuclear Multiple-Quantum Correlation Spectroscopy (HMQC) and Homonuclear Multiple-Bond Correlation Spectroscopy (HMBC) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Austin J Proteomics Bioinform & Genomics.* 5: 1024.

153. Heidari A. 2018. Atomic Force Microscopy Based Infrared (AFM-IR) Spectroscopy and Nuclear Resonance Vibrational Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *J Appl Biotechnol Bioeng.* 5: 142-148.

154. Heidari A. 2018. Time-Dependent Vibrational Spectral Analysis of Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *J Cancer Oncol.* 2: 124.

155. Heidari A. 2018. Palauamine and Olympiadane Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Arc Org Inorg Chem Sci.* 3.

156. GobatoR, Heidari A. 2018. Infrared Spectrum and Sites of Action of Sanguinarine by Molecular Mechanics and ab initio Methods. *International Journal of Atmospheric and Oceanic Sciences.* 2: 1-9.

157. Heidari A. 2018. Angelic Acid, Diabolic Acids, Draculin and Miraculin Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment Under Synchrotron and Synchrocyclotron Radiations. *Med & Analy Chem Int J.* 2: 111.

158. Heidari A. 2018. Gamma Linolenic Methyl Ester, 5-Heptadeca-5,8,11-Trienyl 1,3,4-Oxadiazole-2-Thiol, Sulphoquinovosyl Diacyl Glycerol, Ruscogenin, Nocturnoside B, Protodioscine B, Parquisoside-B, Leiocarposide, Narangenin, 7-Methoxy Hesperitin, Lupeol, Rosemariquinone, Rosmanol and Rosemadiol Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Int J Pharma Anal Acta.* 2: 7-14.

159. Heidari A. 2018. Fourier Transform Infrared (FTIR) Spectroscopy, Attenuated Total Reflectance Fourier Transform Infrared (ATR-FTIR) Spectroscopy, Micro-Attenuated Total Reflectance Fourier Transform Infrared (Micro-ATR-FTIR) Spectroscopy, Macro-Attenuated Total Reflectance Fourier Transform Infrared (Macro-ATR-FTIR) Spectroscopy, Two-Dimensional Infrared Correlation Spectroscopy, Linear Two-Dimensional Infrared Spectroscopy, Non-Linear Two-Dimensional Infrared Spectroscopy, Atomic Force Microscopy Based Infrared (AFM-IR) Spectroscopy, Infrared Photodissociation Spectroscopy, Infrared Correlation Table Spectroscopy, Near-Infrared Spectroscopy (NIRS), Mid-Infrared Spectroscopy (MIRS), Nuclear Resonance Vibrational Spectroscopy, Thermal Infrared Spectroscopy and Photothermal Infrared Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *Glob Imaging Insights.* 3: 1-14.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

160. Heidari A. 2018. Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC) and Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC) Comparative Study on Malignant and Benign Human Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations. *Chronicle of Medicine and Surgery* 2. 3: 144-156.
161. Heidari A. 2018. Tetrakis [3, 5-bis (Trifluoromethyl) Phenyl] Borate (BARF)-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules. *Medical Research and Clinical Case Reports* 2. 1: 113-126.
162. Heidari A. 2018. Sydnone, Münchnone, Montréalone, Mogone, Montelukast, Quebecol and Palau'amine-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules. *Sur Cas Stud Op Acc J.* 1: 3.
163. Heidari A. 2018. Fornacite, Orotic Acid, Rhamnetin, Sodium Ethyl Xanthate (SEX) and Spermine (Spermidine or Polyamine) Nanomolecules Incorporation into the Nanopolymeric Matrix (NPM). *International Journal of Biochemistry and Biomolecules.* 4: 1-19.
164. Heidari A, Gobato R. 2018. Putrescine, Cadaverine, Spermine and Spermidine-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules. *Parana Journal of Science and Education (PJSE)-v.* 4: 1-14.
165. Heidari A. 2018. Cadaverine (1,5-Pentanediamine or Pentamethylenediamine), Diethyl Azodicarboxylate (DEAD or DEADCAT) and Putrescine (Tetramethylenediamine) Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Hiv and Sexual Health Open Access Open Journal.* 1: 4-11.
166. Heidari A. 2018. Improving the Performance of Nano-Endofullerenes in Polyaniline Nanostructure-Based Biosensors by Covering Californium Colloidal Nanoparticles with Multi-Walled Carbon Nanotubes. *Journal of Advances in Nanomaterials.* 3: 1-28.
167. Gobato R, Heidari A. 2018. Molecular Mechanics and Quantum Chemical Study on Sites of Action of Sanguinarine Using Vibrational Spectroscopy Based on Molecular Mechanics and Quantum Chemical Calculations. *Malaysian Journal of Chemistry,* Vol. 20: 1-23.
168. Heidari A. 2018. Vibrational Biospectroscopic Studies on Anti-cancer Nanopharmaceuticals (Part I). *Malaysian Journal of Chemistry.* 20: 33-73.
169. Heidari A. 2018. Vibrational Biospectroscopic Studies on Anti-cancer Nanopharmaceuticals (Part II)", *Malaysian Journal of Chemistry.* 20: 74-117.
170. Heidari A. 2018. Uranocene (U(C₈H₈)₂) and Bis (Cyclooctatetraene)Iron (Fe(C₈H₈)₂ or Fe (COT)₂)-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules", *Chemistry Reports.* 1: 1-16.
171. Heidari A. 2018. Biomedical Systematic and Emerging Technological Study on Human Malignant and Benign Cancer Cells and Tissues Biospectroscopic Analysis under Synchrotron Radiation. *Glob Imaging Insights.* 3: 1-7.
172. Heidari A. 2018. Deep-Level Transient Spectroscopy and X-Ray Photoelectron Spectroscopy (XPS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Res Dev Material Sci.* 7: 659.
173. Heidari A. 2018. C₇₀-Carboxyfullerenes Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Glob Imaging Insights.* 3: 1-7.
174. Heidari A. 2018. The Effect of Temperature on Cadmium Oxide (CdO) Nanoparticles Produced by Synchrotron



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

Radiation in the Human Cancer Cells, Tissues and Tumors. *International Journal of Advanced Chemistry*. 6: 140-156.

175. Heidari A. 2018. A Clinical and Molecular Pathology Investigation of Correlation Spectroscopy (COSY), Exclusive Correlation Spectroscopy (ECOSY), Total Correlation Spectroscopy (TOCSY), Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC) and Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC) Comparative Study on Malignant and Benign Human Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations Using Cyclotron versus Synchrotron, Synchrocyclotron and the Large Hadron Collider (LHC) for Delivery of Proton and Helium Ion (Charged Particle) Beams for Oncology Radiotherapy. *European Journal of Advances in Engineering and Technology*. 5: 414-426.

176. Heidari A. 2018. Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *J Oncol Res*. 1: 1-20.

177. Heidari A. 2018. Use of Molecular Enzymes in the Treatment of Chronic Disorders”, *Canc Oncol Open Access J*. 1: 12-15.

178. Heidari A. 2018. Vibrational Biospectroscopic Study and Chemical Structure Analysis of Unsaturated Polyamides Nanoparticles as Anti-Cancer Polymeric Nanomedicines Using Synchrotron Radiation. *International Journal of Advanced Chemistry*. 6: 167-189.

179. Heidari A. 2018. Adamantane, Irene, Naftazone and Pyridine-Enhanced Precatalyst Preparation Stabilization and Initiation (PEPPSI) Nano Molecules. *Madridge J Nov Drug Res*. 2: 61-67.

180. Heidari A. 2018. Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC) and Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC) Comparative Study on

Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Madridge J Nov Drug Res*. 2: 68-74.

181. Heidari A, Gobato R. 2018. A Novel Approach to Reduce Toxicities and to Improve Bioavailabilities of DNA/RNA of Human Cancer Cells-Containing Cocaine (Coke), Lysergide (Lysergic Acid Diethyl Amide or LSD), Δ^9 -Tetrahydrocannabinol (THC) [(-)-trans- Δ^9 -Tetrahydrocannabinol], Theobromine (Xantheose), Caffeine, Aspartame (APM) (NutraSweet) and Zidovudine (ZDV) [Azidothymidine (AZT)] as Anti-Cancer Nano Drugs by Coassembly of Dual Anti-Cancer Nano Drugs to Inhibit DNA/RNA of Human Cancer Cells Drug Resistance. *Parana Journal of Science and Education*. 4: 1-17.

182. Heidari A, Gobato R. 2018. Ultraviolet Photoelectron Spectroscopy (UPS) and Ultraviolet-Visible (UV-Vis) Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Parana Journal of Science and Education*, v. 4: 18-33.

183. Heidari A, Gobato R. 2018. The Creation of $C_{13}H_{20}BeLi_2SeSi$. The Proposal of a Bio-Inorganic Molecule, Using Ab Initio Methods for the Genesis of a Nano Membrane. *Arc Org Inorg Chem Sci* 3: 167.

184. Heidari A, Gobato R. 2018. Using the Quantum Chemistry for Genesis of a Nano Biomembrane with a Combination of the Elements Be, Li, Se, Si, C and H. *J Nanomed Res*. 7: 241-252.

185. Heidari A. 2018. Bastadins and Bastaranes-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules. *Glob Imaging Insights*. 3: 1-7.

186. Heidari A. 2018. Fucitol, Pterodactyladiene, DEAD or DEADCAT (DiEthyl AzoDiCarboxylaTe), Skatole, the NanoPutians, Thebacon, Pikachurin, Tie Fighter, Spermidine and Mirasorvone Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME)



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Glob Imaging Insights*. 3: 1-8.

187. Dadvar E, Heidari A. 2018. A Review on Separation Techniques of Graphene Oxide (GO)/Base on Hybrid Polymer Membranes for Eradication of Dyes and Oil Compounds: Recent Progress in Graphene Oxide (GO)/Base on Polymer Membranes-Related Nanotechnologies. *Clin Med Rev Case Rep*. 5: 228.

188. Heidari A, Gobato R. 2018. First-Time Simulation of Deoxyuridine Monophosphate (dUMP) (Deoxyuridylic Acid or Deoxyuridylate) and Vomitoxin (Deoxynivalenol (DON)) ((3 α ,7 α)-3,7,15-Trihydroxy-12,13-Epoxytrichothe-9-En-8-One)-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Parana Journal of Science and Education*. 4: 46-67.

189. Heidari A. 2018. Buckminsterfullerene (Fullerene), Bullvalene, Dickite and Josiphos Ligands Nano Molecules Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Hematology and Thromboembolic Diseases Prevention, Diagnosis and Treatment under Synchrotron and Synchrocyclotron Radiations. *Glob Imaging Insights*. 3: 1-7.

190. Heidari A. 2018. Fluctuation X-Ray Scattering (FXS) and Wide-Angle X-Ray Scattering (WAXS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-7.

191. Heidari A. 2018. A Novel Approach to Correlation Spectroscopy (COSY), Exclusive

Correlation Spectroscopy (ECOSY), Total Correlation Spectroscopy (TOCSY), Incredible Natural-Abundance Double-Quantum Transfer Experiment (INADEQUATE), Heteronuclear Single-Quantum Correlation Spectroscopy (HSQC), Heteronuclear Multiple-Bond Correlation Spectroscopy (HMBC), Nuclear Overhauser Effect Spectroscopy (NOESY) and Rotating Frame Nuclear Overhauser Effect Spectroscopy (ROESY) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-9.

192. Heidari A. 2018. Terphenyl-Based Reversible Receptor with Rhodamine, Rhodamine-Based Molecular Probe, Rhodamine-Based Using the Spirolactam Ring Opening, Rhodamine B with Ferrocene Substituent, Calix[4]Arene-Based Receptor, Thioether + Aniline-Derived Ligand Framework Linked to a Fluorescein Platform, Mercuryfluor-1 (Flourescent Probe), N,N'-Dibenzyl-1,4,10,13-Tetraraoxa-7,16-Diazacyclooctadecane and Terphenyl-Based Reversible Receptor with Pyrene and Quinoline as the Fluorophores-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules. *Glob Imaging Insights*. 3: 1-9.

193. Heidari A. 2018. Small-Angle X-Ray Scattering (SAXS), Ultra-Small Angle X-Ray Scattering (USAXS), Fluctuation X-Ray Scattering (FXS), Wide-Angle X-Ray Scattering (WAXS), Grazing-Incidence Small-Angle X-Ray Scattering (GISAXS), Grazing-Incidence Wide-Angle X-Ray Scattering (GIWAXS), Small-Angle Neutron Scattering (SANS), Grazing-Incidence Small-Angle Neutron Scattering (GISANS), X-Ray Diffraction (XRD), Powder X-Ray Diffraction (PXRD), Wide-Angle X-Ray Diffraction (WAXD), Grazing-Incidence X-Ray Diffraction (GIXD) and Energy-Dispersive X-Ray Diffraction (EDXRD) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-10.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

194. Heidari A. 2018. Nuclear Resonant Inelastic X-Ray Scattering Spectroscopy (NRIXSS) and Nuclear Resonance Vibrational Spectroscopy (NRVS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-7.
195. Heidari A. 2018. Small-Angle X-Ray Scattering (SAXS) and Ultra-Small Angle X-Ray Scattering (USAXS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-7.
196. Heidari A. 2018. Curious Chloride (CmCl₃) and Titanic Chloride (TiCl₄)-Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules for Cancer Treatment and Cellular Therapeutics. *J. Cancer Research and Therapeutic Interventions*. 1: 1-10.
197. Gobato R, Gobato MRR, Heidari A, et al. 2018. Spectroscopy and Dipole Moment of the Molecule C₁₃H₂₀BeLi₂SeSi via Quantum Chemistry Using Ab Initio, Hartree-Fock Method in the Base Set CC-pVTZ and 6-311G**(3df, 3pd). *Arc Org Inorg Chem Sci*. 3: 402-409.
198. Heidari A. 2018. C₆₀ and C₇₀-Encapsulating Carbon Nanotubes Incorporation into the Nano Polymeric Matrix (NPM) by Immersion of the Nano Polymeric Modified Electrode (NPME) as Molecular Enzymes and Drug Targets for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron and Synchrocyclotron Radiations. *Integr Mol Med*. 5: 1-8.
199. Heidari A. 2018. Two-Dimensional (2D) ¹H or Proton NMR, ¹³C NMR, ¹⁵N NMR and ³¹P NMR Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *Glob Imaging Insights*. 3: 1-8.
200. Heidari A. 2018. FT-Raman Spectroscopy, Coherent Anti-Stokes Raman Spectroscopy (CARS) and Raman Optical Activity Spectroscopy (ROAS) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues with the Passage of Time under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-8.
201. Heidari A. 2018. A Modern and Comprehensive Investigation of Inelastic Electron Tunneling Spectroscopy (IETS) and Scanning Tunneling Spectroscopy on Malignant and Benign Human Cancer Cells, Tissues and Tumors through Optimizing Synchrotron Microbeam Radiotherapy for Human Cancer Treatments and Diagnostics: An Experimental Biospectroscopic Comparative Study. *Glob Imaging Insights*. 3: 1-8.
202. Heidari A. 2018. A Hypertension Approach to Thermal Infrared Spectroscopy and Photothermal Infrared Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation with the Passage of Time. *Glob Imaging Insights*. 3: 1-8.
203. Heidari A. 2018. Incredible Natural-Abundance Double-Quantum Transfer Experiment (INAD EQUATE), Nuclear Overhauser Effect Spectroscopy (NOESY) and Rotating Frame Nuclear Overhauser Effect Spectroscopy (ROESY) Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Glob Imaging Insights*. 3: 1-8.
204. Heidari A. 2018. 2-Amino-9-((1S, 3R, 4R)-4-Hydroxy-3-(Hydroxymethyl)-2-Methylenecyclopentyl)-1H-Purin-6(9H)-One, 2-Amino-9-((1R, 3R, 4R)-4-Hydroxy-3-(Hydroxymethyl)-2-Methylenecyclopentyl)-1H-Purin-6(9H)-One, 2-Amino-9-((1R, 3R, 4S)-4-Hydroxy-3-(Hydroxymethyl)-2-Methylenecyclopentyl)-1H-Purin-6(9H)-One and 2-Amino-9-((1S, 3R, 4S)-4-Hydroxy-3-(Hydroxymethyl)-2-Methylenecyclopentyl)-1H-Purin-6(9H)-One-Enhanced Precatalyst Preparation Stabilization and Initiation Nano Molecules. *Glob Imaging Insights*. 3: 1-9.
205. Gobato R, Gobato MRR, Heidari A, et al. 2018. Spectroscopy and Dipole Moment of the Molecule C₁₃H₂₀BeLi₂SeSi via Quantum Chemistry Using Ab Initio, Hartree-Fock Method in the Base Set CC-pVTZ and 6-



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- 311G**(3df, 3pd). American Journal of Quantum Chemistry and Molecular Spectroscopy. 2: 9-17.
206. Heidari A. 2018. Production of Electrochemiluminescence (ECL) Biosensor Using Os-Pd/HfC Nanocomposites for Detecting and Tracking of Human Gastroenterological Cancer Cells, Tissues and Tumors. *Int J Med Nano Res.* 5: 22-34.
207. Heidari A. 2018. Enhancing the Raman Scattering for Diagnosis and Treatment of Human Cancer Cells, Tissues and Tumors Using Cadmium Oxide (CdO) Nanoparticles. *J Toxicol Risk Assess.* 4: 12-25.
208. Heidari A. 2018. Human Malignant and Benign Human Cancer Cells and Tissues Biospectroscopic Analysis under Synchrotron Radiation Using Anti-Cancer Nano Drugs Delivery. *Integr Mol Med.* 5: 1-13.
209. Heidari A. 2018. Analogous Nano Compounds of the Form $M(C_8H_8)_2$ Exist for $M = (Nd, Tb, Pu, Pa, Np, Th, \text{ and } Yb)$ -Enhanced Precatalyst Preparation Stabilization and Initiation (EPPSI) Nano Molecules. *Integr Mol Med.* 5: 1-8.
210. Heidari A. 2018. Hadron Spectroscopy, Baryon Spectroscopy and Meson Spectroscopy Comparative Study on Malignant and Benign Human Cancer Cells and Tissues under Synchrotron Radiation. *Integr Mol Med.* 5: 1-8.
211. Gobato R, Gobato MRR, Heidari A. 2019. Raman Spectroscopy Study of the Nano Molecule $C_{13}H_{20}BeLi_2SeSi$ Using ab initio and Hartree-Fock Methods in the Basis Set CC-pVTZ and 6-311G** (3df, 3pd). *International Journal of Advanced Engineering and Science.* 7: 14-35.
212. Heidari A, Gobato R. 2019. Evaluating the Effect of Anti-Cancer Nano Drugs Dosage and Reduced Leukemia and Polycythemia Vera Levels on Trend of the Human Blood and Bone Marrow Cancers under Synchrotron Radiation. *Trends in Res.* 2: 1-8.
213. Heidari A, Gobato R. 2019. Assessing the Variety of Synchrotron, Synchrocyclotron and LASER Radiations and Their Roles and Applications in Human Cancer Cells, Tissues and Tumors Diagnosis and Treatment. *Trends in Res.* 2: 1-8.
214. Heidari A, Gobato R. 2019. Pros and Cons Controversy on Malignant Human Cancer Cells, Tissues and Tumors Transformation Process to Benign Human Cancer Cells, Tissues and Tumors. *Trends in Res.* 2: 1-8.
215. Heidari A, Gobato R. 2019. Three-Dimensional (3D) Simulations of Human Cancer Cells, Tissues and Tumors for Using in Human Cancer Cells, Tissues and Tumors Diagnosis and Treatment as a Powerful Tool in Human Cancer Cells, Tissues and Tumors Research and Anti-Cancer Nano Drugs Sensitivity and Delivery Area Discovery and Evaluation. *Trends in Res.* 2: 1-8.
216. Heidari A, Gobato R. 2019. of Energy Production by Synchrotron, Synchrocyclotron and LASER Radiations in Human Cancer Cells, Tissues and Tumors and Evaluation of Their Effective on Human Cancer Cells, Tissues and Tumors Treatment Trend. *Trends in Res.* 2: 1-8.
217. Heidari A, Gobato R. 2019. High-Resolution Mapping of DNA/RNA Hypermethylation and Hypomethylation Process in Human Cancer Cells, Tissues and Tumors under Synchrotron Radiation. *Trends in Res.* 2: 1-9.
218. Heidari A, Gobato R. 2019. A Novel and Comprehensive Study on Manufacturing and Fabrication Nanoparticles Methods and Techniques for Processing Cadmium Oxide (CdO) Nanoparticles Colloidal Solution. *Glob Imaging Insights.* 4: 1-8.
219. Heidari A. 2019. A Combined Experimental and Computational Study on the Catalytic Effect of Aluminum Nitride Nanocrystal (AlN) on the Polymerization of Benzene, Naphthalene, Anthracene, Phenanthrene, Chrysene and Tetracene. *Glob Imaging Insights.* 4: 1-8.
220. Heidari A. 2019. Novel Experimental and Three-Dimensional (3D) Multiphysics Computational Framework of Michaelis-Menten Kinetics for Catalyst Processes Innovation, Characterization and Carrier Applications. *Glob Imaging Insights.* 4: 1-8.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

221. Heidari A. 2019. The Hydrolysis Constants of Copper (I) (Cu^+) and Copper (II) (Cu^{2+}) in Aqueous Solution as a Function of pH Using a Combination of pH Measurement and Biospectroscopic Methods and Techniques. *Glob Imaging Insights*. 4: 1-8.
222. Heidari A. 2019. Vibrational Biospectroscopic Study of Gigantous Virus-Sized Macromolecule and Polypeptide Macromolecule as Mega Macromolecules Using Attenuated Total Reflectance-Fourier Transform Infrared (ATR-FTIR) Spectroscopy and Mathematica 11.3. *Glob Imaging Insights*. 4: 1-8.
223. Heidari A. 2019. Three-Dimensional (3D) Imaging Spectroscopy of Carcinoma, Sarcoma, Leukemia, Lymphoma, Multiple Myeloma, Melanoma, Brain and Spinal Cord Tumors, Germ Cell Tumors, Neuroendocrine Tumors and Carcinoid Tumors under Synchrotron Radiation. *Glob Imaging Insights*. 4: 1-9.
224. Gobato R, Gobato MRR, Heidari A. 2019. Storm Vortex in the Center of Paraná State on June 6, 2017: A Case Study”, *Sumerian Journal of Scientific Research*. 2: 24-31.
225. Gobato R, Gobato MRR, Heidari A. 2019. Attenuated Total Reflection-Fourier Transform Infrared (ATR-FTIR) Spectroscopy Study of the Nano Molecule $\text{C}_{13}\text{H}_{20}\text{BeLi}_2\text{SeSi}$ Using *ab initio* and Hartree-Fock Methods in the Basis Set RHF/CC-pVTZ and RHF/6-311G** (3df, 3pd): An Experimental Challenge to Chemists. *Chemistry Reports*. 2: 1-26.
226. Gobato R, Gobato MRR, Heidari A. 2019. Three-Dimensional (3D) Imaging Spectroscopy of Carcinoma, Sarcoma, Leukemia, Lymphoma, Multiple Myeloma, Melanoma, Brain and Spinal Cord Tumors, Germ Cell Tumors, Neuroendocrine Tumors and Carcinoid Tumors under Synchrotron Radiation. *Res Adv Biomed Sci Technol*. 1: 01-17.
227. Gobato R, Gobato MRR, Heidari A, et al. 2019. New Nano-Molecule Kurumi- $\text{C}_{13}\text{H}_{20}\text{BeLi}_2\text{SeSi}/\text{C}_{13}\text{H}_{19}\text{BeLi}_2\text{SeSi}$, and Raman Spectroscopy Using *ab initio*, Hartree-Fock Method in the Base Set CC-pVTZ and 6-311G** (3df, 3pd). *J Anal Pharm Res*. 8: 1-6.
228. Heidari A, Esposito J, Caissutti A. 2019. The Importance of Attenuated Total Reflectance Fourier Transform Infrared (ATR-FTIR) and Raman Biospectroscopy of Single-Walled Carbon Nanotubes (SWCNT) and Multi-Walled Carbon Nanotubes (MWCNT) in Interpreting Infrared and Raman Spectra of Human Cancer Cells, Tissues and Tumors. *Oncogen*. 2: 1-21.
229. Heidari A. 2019. Mechanism of Action and Their Side Effects at a Glance Prevention, Treatment and Management of Immune System and Human Cancer Nano Chemotherapy. *Nanosci Technol* 6: 1-4.
230. Heidari A, Esposito J, Caissutti A. 2019. The Quantum Entanglement Dynamics Induced by Non-Linear Interaction between a Moving Nano Molecule and a Two-Mode Field with Two-Photon Transitions Using Reduced von Neumann Entropy and Jaynes-Cummings Model for Human Cancer Cells, Tissues and Tumors Diagnosis. *Int J Crit Care Emerg Med*. 5: 71-84.
231. Heidari A, Esposito J, Caissutti A. 2019. Palytoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *J Pharm Drug Res*. 3: 150-170.
232. Heidari A, Esposito J, Caissutti A. 2019. Aplysiatoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *J Chem Sci Eng*. 2: 70-89.
233. Heidari A, Esposito J, Caissutti A. 2019. Cyanotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Br J Med Health Res*. 6: 21-60.
234. Heidari A. 2019. Potential and Theranostics Applications of Novel Anti-Cancer Nano Drugs Delivery Systems in Preparing for Clinical Trials of Synchrotron



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- Microbeam Radiation Therapy (SMRT) and Synchrotron Stereotactic Radiotherapy (SSRT) for Treatment of Human Cancer Cells, Tissues and Tumors Using Image Guided Synchrotron Radiotherapy (IGSR). *Ann Nanosci Nanotechnol.* 3: 1006-1019.
235. Heidari A, Esposito J, Caissutti A. 2019. Study of Anti-Cancer Properties of Thin Layers of Cadmium Oxide (CdO) Nanostructure. *Int J Analyt Bioanalyt Methods.* 1: 3-22.
236. Heidari A, Esposito J, Caissutti A. 2019. Alpha-Conotoxin, Omega-Conotoxin and Mu-Conotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *International Journal of Advanced Chemistry.* 7: 52-66.
237. Heidari A. 2019. Clinical and Medical Pros and Cons of Human Cancer Cells' Enzymotherapy, Immunotherapy, Chemotherapy, Radiotherapy, Hormone Therapy and Targeted Therapy Process under Synchrotron Radiation: A Case Study on Mechanism of Action and Their Side Effects. *Parana Journal of Science and Education (PJSE)-v.* 5: 1-23.
238. Heidari A. 2019. The Importance of the Power in CMOS Inverter Circuit of Synchrotron and Synchrocyclotron Radiations Using 50 (nm) and 100 (nm) Technologies and Reducing the Voltage of Power Supply. *Radiother Oncol Int.* 1: 1002-1015.
239. Heidari A, Esposito J, Caissutti A. 2019. The Importance of Quantum Hydrodynamics (QHD) Approach to Single-Walled Carbon Nanotubes (SWCNT) and Multi-Walled Carbon Nanotubes (MWCNT) in Genetic Science. *SCIOL Genet Sci.* 2: 113-129.
240. Heidari A, Esposito J, Caissutti A. 2019. Anatoxin-a and Anatoxin-a(s) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Saudi J Biomed Res.* 4: 174-194.
241. Gobato R, Gobato MRR, Heidari A. 2019. Evidence of Tornado Storm Hit the Counties of Rio Branco do Ivaí and Rosario de Ivaí, Southern Brazil. *Sci Lett.* 7: 32-40.
242. Jeyaraj M, Mahalingam V, Indhuleka A, et al. 2019. Chemical Analysis of Surface Water Quality of River Noyyal Connected Tank in Tirupur District, Tamil Nadu, India", *Water and Energy International.* 62: 63-68.
243. Heidari A, Esposito J, Caissutti A. 2019. 6-Methoxy-8-[[6-Methoxy-8-[[6-Methoxy-2-Methyl-1-(2-Methylpropyl)-3,4-Dihydro-1H-Isoquinolin-7-yl] Oxy]-2-Methyl-1-(2-Methylpropyl)-3,4-Dihydro-1H-Isoquinolin-7-yl] Oxy]-2-Methyl-1-(2-Methylpropyl)-3,4-Dihydro-1H-Isoquinolin-7-ol Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *J. Adv. Phys. Chem.* 1: 1-6.
244. Heidari A, Esposito J, Caissutti A. 2019. Shiga Toxin and Shiga-Like Toxin (SLT) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Annal Biostat & Biomed Appli.* 2: 1-4.
245. Heidari A, Esposito J, Caissutti A. 2019. Alpha-Bungarotoxin, Beta-Bungarotoxin and Kappa-Bungarotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Archives of Pharmacology and Pharmaceutical Sciences, ReDelve.* 1-24.
246. Heidari A, Esposito J, Caissutti A. 2019. Okadaic Acid Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Int J Analyt Bioanalyt Methods.* 1: 1-19.
247. Heidari A. 2019. Investigation of the Processes of Absorption, Distribution, Metabolism and Elimination (ADME) as Vital



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

and Important Factors for Modulating Drug Action and Toxicity. *Open Access J Oncol.* 2: 180010-180012.

248. Heidari A, Esposito J, Caissutti A. 2019. Pertussis Toxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Chemistry Reports.* 1: 1-5.

249. Gobato R, Gobato MRR, Heidari A. 2019. Rhodochrosite as Crystal Oscillator. *Am J Biomed Sci & Res.* 3: 187.

250. Heidari A, Esposito J, Caissutti A. 2019. Tetrodotoxin (TTX) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Journal of New Developments in Chemistry.* 2: 26-48.

251. Heidari A, Esposito J, Caissutti A. 2019. The Importance of Analysis of Vibronic-Mode Coupling Structure in Vibrational Spectra of Supramolecular Aggregates of (CA*M) Cyanuric Acid (CA) and Melamine (M) beyond the Franck-Condon Approximation. *Journal of Clinical and Medical Images.* 2: 1-20.

252. Heidari A, Esposito J, Caissutti A. 2019. Microcystin-LR Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis", *Malaysian Journal of Chemistry.* 21: 70-95.

253. Heidari A, Esposito J, Caissutti A. 2019. Botulinum Toxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Journal of Mechanical Design and Vibration.* 1: 1-15.

254. Heidari A, Esposito J, Caissutti A. 2019. Domoic Acid (DA) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional

Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Clinical Oncology Journal.* 2: 03-07.

255. Heidari A, Esposito J, Caissutti A. 2019. Surugatoxin (SGTX) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Clinical Oncology Journal.* 2: 14-18.

256. Heidari A, Esposito J, Caissutti A. 2019. Decarbamoylsaxitoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Clinical Oncology Journal.* 2: 19-23.

257. Heidari A, Esposito J, Caissutti A. 2019. Gonyautoxin (GTX) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Clinical Oncology Journal.* 2: 24-28.

258. Heidari A, Esposito J, Caissutti A. 2019. Histrionicotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research.* 1: 01-06.

259. Heidari A, Esposito J, Caissutti A. 2019. Dihydrokainic Acid Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research.* 1: 7-12.

260. Heidari A, Esposito J, Caissutti A. 2019. Aflatoxin B1 (AFB1), B2 (AFB2), G1 (AFG1), G2 (AFG2), M1 (AFM1), M2 (AFM2), Q1 (AFQ1) and P1 (AFP1) Time-Resolved



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research*. 25-32.

261. Heidari A, Esposito J, Caissutti A. 2019. Mycotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research*. 1: 13-18.

262. Heidari A, Esposito J, Caissutti A. 2019. Bufotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research*. 1: 19-24.

263. Heidari A, Esposito J, Caissutti A. 2019. Kainic Acid (Kainite) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Journal of Neurology*. 2: 02-07.

264. Heidari A, Esposito J, Caissutti A. 2019. Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Journal of Neurology*. 2: 19-24.

265. Heidari A, Esposito J, Caissutti A. 2019. Spider Toxin and Raventoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis", *Parana Journal of Science and Education*. 5: 1-28.

266. Heidari A, Esposito J, Caissutti A. 2019. Ochratoxin A, Ochratoxin B, Ochratoxin C, Ochratoxin α and Ochratoxin TA Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density

Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research*. 2: 03-10.

267. Heidari A, Esposito J, Caissutti A. 2019. Brevetoxin A and B Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research*. 2: 11-16.

268. Heidari A, Esposito J, Caissutti A. 2019. Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Drug Delivery Research*. 2: 23-28.

269. Heidari A, Esposito J, Caissutti A. 2019. Balraechotoxin (BTX) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Scientific Journal of Neurology*. 3: 1-5.

270. Heidari A, Esposito J, Caissutti A. 2019. Hanatoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Int. J. Pharm. Sci. Rev. Res*. 57: 21-32.

271. Heidari A, Esposito J, Caissutti A. 2019. Neurotoxin and Alpha-Neurotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *J Biomed Sci & Res*. 3: 550-563.

272. Heidari A, Esposito J, Caissutti A. 2019. Antillatoxin (ATX) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

- Coupling Structure. American Journal of Optics and Photonics. 7: 18-27.
273. Gobato R, Gobato MRR, Heidari A. 2019. Calculation by UFF Method of Frequencies and Vibrational Temperatures of the Unit Cell of the Rhodochrosite Crystal. International Journal of Advanced Chemistry. 7: 77-81.
274. Heidari A, Esposito J, Caissutti A. 2019. Analysis of Vibronic-Mode Coupling Structure in Vibrational Spectra of Fuzeon as a 36 Amino Acid Peptide for HIV Therapy beyond the Multi-Dimensional Franck-Condon Integrals Approximation. International Journal of Advanced Chemistry. 7: 82-96.
275. Heidari A, Esposito J, Caissutti A. 2019. Debromoaplysiatoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Applied Chemistry. 2: 17-54.
276. Heidari A, Esposito J, Caissutti A. 2019. Enterotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. JRL J Sci Technol. 2: 1-16.
277. Gobato R, Gobato MRR, Heidari A, et al. 2019. Rhodochrosite Optical Indicatrix. Peer Res Nest. 1: 1-2.
278. Heidari A, Esposito J, Caissutti A. 2019. Anthrax Toxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Research & Reviews: Journal of Computational Biology. 8: 23-51.
279. Heidari A, Esposito J, Caissutti A. 2019. Kalkitoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Can J Biomed Res & Tech. 2: 1-21.
280. Heidari A, Esposito J, Caissutti A. 2019. Neosaxitoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Clin Case Studie Rep. 2: 1-14.
281. Heidari A, Esposito J, Caissutti A. 2019. 6-Methoxy-8-[[6-Methoxy-8-[[6-Methoxy-2-Methyl-1-(2-Methylpropyl)-3,4-Dihydro-1H-Isoquinolin-7-yl] Oxy]-2-Methyl-1-(2-Methylpropyl)-3,4-Dihydro-1H-Isoquinolin-7-yl] Oxy]-2-Methyl-1-(2-Methylpropyl)-3,4-Dihydro-1H-Isoquinolin-7-ol Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Clin Case Studie Rep. 2: 1-14.
282. Heidari A. 2019. Comparison of Synchrotron Radiation and Synchrocyclotron Radiation Performance in Monitoring of Human Cancer Cells, Tissues and Tumors. Clin Case Studie Rep, Volume 2: 1-12.
283. Heidari A, Esposito J, Caissutti A. 2019. Kalkitoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Clin Case Studie Rep. 2: 1-14.
284. Heidari A, Esposito J, Caissutti A. 2019. Toxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis: A Spectroscopic Study on an Anti-Cancer Drug. Clin Case Studie Rep. 2: 1-14.
285. Heidari A, Esposito J, Caissutti A. 2019. Symbiodinolide Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Clin Case Studie Rep. 2: 1-14.
286. Heidari A, Esposito J, Caissutti A. 2019. Saxitoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory Investigation of



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. *Am J Exp Clin Res.* 6: 364-377.

287. Gobato R, Gobato MRR, A. Heidari A, et al. 2019. Hartree-Fock Methods Analysis Protonated Rhodochrosite Crystal and Potential in the Elimination of Cancer Cells through Synchrotron Radiation”, *Radiation Science and Technology.* 5: 27-36.

288. Gobato R, Dosh IKK, Heidari A, et al. 2019. Perspectives on the Elimination of Cancer Cells Using Rhodochrosite Crystal Through Synchrotron Radiation, and Absorption the Tumoral and Non-Tumoral Tissues. *Arch Biomed Eng & Biotechnol.* 3: 1-2.

289. Gobato R, Gobato MRR, Heidari A, et al. Unrestricted Hartree-Fock Computational Simulation in a Protonated Rhodochrosite Crystal. *Phys Astron Int J.* 3: 220-228.

290. Heidari A, Schmitt K, Henderson M, et al. 2019. Perspectives on Sub-Nanometer Level of Electronic Structure of the Synchrotron with Mendelevium Nanoparticles for Elimination of Human Cancer Cells, Tissues and Tumors Treatment Using Mathematica 12.0. *Journal of Energy Conservation.* 2: 46-73.

291. Heidari A, Schmitt k, Henderson M, et al. 2019. Simulation of Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Bohrium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment”, *Current Research in Biochemistry and Molecular Biology.* 1: 17-44.

292. Heidari A, Schmitt K, Henderson M, et al. 2019. Investigation of Interaction between Synchrotron Radiation and Thulium Nanoparticles for Human Cancer Cells, Tissues and Tumors Treatment. *European Journal of Scientific Exploration.* 2: 1-8.

293. Heidari A, Schmitt K, Henderson M, et al. 2020. The Effectiveness of the Treatment Human Cancer Cells, Tissues and Tumors Using Darmstadtium Nanoparticles and Synchrotron Radiation. *International Journal of Advanced Engineering and Science.* 9: 9-39.

294. Heidari A, Schmitt K, Henderson M, et al. Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment in Simulation of Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Uranium Nanoparticles. *Nano Prog.* 1: 1-6.

295. Heidari A, Schmitt K, Henderson M, et al. 2019. A New Approach to Interaction between Beam Energy and Erbium Nanoparticles. *Saudi J Biomed Res.* 4: 372-396.

296. Heidari A, Schmitt k, Henderson M, et al. 2019. Consideration of Energy Functions and Wave Functions of the Synchrotron Radiation and Samarium Nanoparticles Interaction During Human Cancer Cells, Tissues and Tumors Treatment Process. *Sci. Int. (Lahore).* 31: 885-908.

297. Heidari A, Schmitt k, Henderson M, et al. 2019. An Outlook on Optothermal Human Cancer Cells, Tissues and Tumors Treatment Using Lanthanum Nanoparticles under Synchrotron Radiation. *Journal of Materials Physics and Chemistry.* 7: 29-45.

298. Heidari A, Schmitt k, Henderson M, et al. 2019. Effectiveness of Einsteinium Nanoparticles in Optothermal Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Journal of Analytical Oncology.* 8: 43-62.

299. Heidari A, Schmitt k, Henderson M, et al. 2019. Study of Relation between Synchrotron Radiation and Dubnium Nanoparticles in Human Cancer Cells, Tissues and Tumors Treatment Process”, *Int. Res. J. Applied Sci.* 1: 1-20.

300. Heidari A, Schmitt k, Henderson M, et al. 2019. A Novel Prospect on Interaction of Synchrotron Radiation Emission and Europium Nanoparticles for Human Cancer Cells, Tissues and Tumors Treatment. *European Modern Studies Journal.* 3: 11-24.

301. Heidari A, Schmitt k, Henderson M, et al. 2019. Advantages, Effectiveness and Efficiency of Using Neodymium Nanoparticles by 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

Radiation. International Journal of Advanced Chemistry. 7: 119-135.

302. Heidari A, Schmitt k, Henderson M, et al. 2019. Role and Applications of Promethium Nanoparticles in Human Cancer Cells, Tissues and Tumors Treatment. Scientific Modelling and Research. 4: 8-14.

303. Heidari A, Esposito J, Caissutti A. 2019. Maitotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis: A Spectroscopic Study on an Anti-Cancer Drug. Glob Imaging Insights. 4: 1-13.

304. Heidari A, Schmitt k, Henderson M, et al. 2019. Biotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Glob Imaging Insights. 4: 1-14.

305. Heidari A, Schmitt k, Henderson M, et al. 2019. Time-Resolved Resonance FT-IR and Raman Spectroscopy and Density Functional Theory Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra of Nanopolypeptide Macromolecule beyond the Multi-Dimensional Franck-Condon Integrals Approximation and Density Matrix Method. Glob Imaging Insights 4: 1-14.

306. Heidari A, Schmitt k, Henderson M, et al. 2019. Cholera Toxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Glob Imaging Insights. 4: 1-14.

307. Heidari A, Esposito J, Caissutti A. 2019. Nodularin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Glob Imaging Insights. 4: 1-14.

308. Heidari A, Esposito J, Caissutti A. 2019. Cangitoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy

and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Glob Imaging Insights. 4: 1-13.

309. Heidari A, Esposito J, Caissutti A. 2019. Ciguatoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Glob Imaging Insights. 4: 1-14.

310. Heidari A, Esposito J, Caissutti A. 2019. Brevetoxin (a) and (b) Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis: A Spectroscopic Study on an Anti-HIV Drug. Scientific Drug Delivery Research. 1: 11-16.

311. Heidari A, Esposito J, Caissutti A. 2019. Cobrotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Trends in Res. 3: 1-13.

312. Heidari A, Esposito J, Caissutti A. 2019. Cylindrospermopsin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Trends in Res. 3: 1-14.

313. Heidari A, Esposito J, Caissutti A. 2019. Anthrax Toxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis. Trends in Res. 3: 1-14.

314. Heidari A, Schmitt k, Henderson M, et al. 2019. Investigation of Moscovium Nanoparticles as Anti-Cancer Nano Drugs for Human Cancer Cells, Tissues and Tumors Treatment. Elixir Appl. Chem. 137: 53943-53963.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

315. Heidari A, Schmitt k, Henderson M, et al. 2019. Study of Function of the Beam Energy and Holmium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment. *European Journal of Advances in Engineering and Technology*. 6: 34-62.
316. Heidari A, Schmitt k, Henderson M, et al. 2019. Human Cancer Cells, Tissues and Tumors Treatment Using Dysprosium Nanoparticles. *Asian J. Mat. Chem*. 4: 47-51.
317. Heidari A, Schmitt k, Henderson M, et al. 2019. Simulation of Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Plutonium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment. *J. Cancer Research and Cellular Therapeutics*. 2: 1-19.
318. Heidari A, Schmitt k, Henderson M, et al. 2019. Study of Gadolinium Nanoparticles Delivery Effect on Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Applied Chemistry*. 2: 55-97.
319. Heidari A, Schmitt k, Henderson M, et al. 2019. Pros and Cons of Livermorium Nanoparticles for Human Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation Using Mathematica 12.0. *Parana Journal of Science and Education (PJSE)-v*. 6: 1-31.
320. Gobato R, Gobato MRR, Heidari A, et al. 2020. Challenging Giants. Hartree-Fock Methods Analysis Protonated Rhodochrosite Crystal and Potential in the Elimination of Cancer Cells Through Synchrotron Radiation. *Biomed J Sci & Tech Res*. 25: 18843-18848.
321. Heidari A, Schmitt k, Henderson M, et al. 2019. Simulation of Interaction between Ytterbium Nanoparticles and Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-18.
322. Heidari A, Schmitt k, Henderson M, et al. 2019. Modelling of Interaction between Curium Nanoparticles and Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-18.
323. Heidari A, Schmitt k, Henderson M, et al. 2019. Study of Berkelium Nanoparticles Delivery Effectiveness and Efficiency on Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-18.
324. Heidari A, Schmitt k, Henderson M, et al. 2019. Fermium Nanoparticles Delivery Mechanism in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-17.
325. Heidari A, Schmitt k, Henderson M, et al. 2019. Advantages of Lawrencium Nanoparticles for Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-18.
326. Heidari A, Schmitt k, Henderson M, et al. 2019. Pros and Cons of the Roentgenium Nanoparticles for Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-17.
327. Heidari A, Schmitt k, Henderson M, et al. 2019. Imagery of Flerovium Nanoparticles Delivery Process in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res*. 5: 1-18.
328. Heidari A, Schmitt k, Henderson M, et al. 2019. Maitotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis: A Spectroscopic Study on an Anti-Gum Cancer Drug. *Dent Oral Maxillofac Res*. 5: 1-16.
329. Heidari A, Schmitt k, Henderson M, et al. 2019. Batrachotoxin Time-Resolved Absorption and Resonance FT-IR and Raman Biospectroscopy and Density Functional Theory (DFT) Investigation of Vibronic-Mode Coupling Structure in Vibrational Spectra Analysis: A Spectroscopic Study on an Anti-



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- Gum Cancer Drug. Dent Oral Maxillofac Res. 5: 1-16.
330. Heidari A, Schmitt k, Henderson M, et al. 2019. Hafnium Nanoparticles and Their Roles and Applications in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 5: 1-17.
331. Heidari A, Schmitt k, Henderson M, et al. 2019. Dramaturgy of Technetium Nanoparticles Delivery Process in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 5: 1-19.
332. Heidari A, Schmitt k, Henderson M, et al. 2019. Computational Approach to Interaction between Synchrotron Radiation Emission as a Function of the Beam Energy and Ruthenium Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment. Dent Oral Maxillofac Res. 5: 1-18.
333. Heidari A, Schmitt k, Henderson M, et al. 2019. Appearance Check of Rhodium Nanoparticles Delivery Trend in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 5: 1-19.
334. Heidari A, Schmitt k, Henderson M, et al. 2019. Orientation Rhenium Nanoparticles Delivery Target on Human Gum Cancer Cells, Tissues and Tumors under Synchrotron Radiation. Dent Oral Maxillofac Res. 5: 1-18.
335. Heidari A, Schmitt k, Henderson M, et al. 2019. Drug Delivery Systems (DDSs) of Osmium Nanoparticles on Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 5: 1-18.
336. Heidari A, Schmitt k, Henderson M, et al. 2019. Development of Successful Formulations for Oral Drug Delivery Concepts of Iridium Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation”, Dent Oral Maxillofac Res. 5: 1-19.
337. Heidari A, Schmitt k, Henderson M, et al. 2019. Classification of Drug Delivery System of Niobium Nanoparticles in Human Gum Cancer Gum Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 6: 1-17.
338. Heidari A, Schmitt k, Henderson M, et al. 2019. Types of Drug Delivery System Slideshare of Protactinium Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 6: 1-17.
339. Heidari A, Schmitt k, Henderson M, et al. 2019. New Drug Delivery System in Pharmaceuticals of Neptunium Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation”, Dent Oral Maxillofac Res. 6: 1-18.
340. Heidari A, Schmitt k, Henderson M, et al. 2019. Drug Delivery Describes the Method and Approach to Delivering Drugs or Pharmaceuticals and Other Xenobiotics to Their Site of Action within Radon Nanoparticles Effects on Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 6: 1-18.
341. Heidari A, Schmitt k, Henderson M, et al. 2019. Applications of Oganesson Nanoparticles in Increasing Rapidly with the Promise of Targeted and Efficient Drug Delivery in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 6: 1-19.
342. Heidari A, Schmitt k, Henderson M, et al. 2019. Wheeler-Feynman Time- Symmetric Study of Effectiveness and Efficiency of Terbium Nanoparticles Delivery Mechanism in Human Cancer Cells, Tissues and Tumors under Synchrotron Radiation. Frontiers Drug Chemistry Clinical Res. 3: 1-13.
343. Heidari A, Schmitt k, Henderson M, et al. 2019. Simulation of Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Californium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment. Oncol Res: Open Acce. 1: 1-17.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

344. Heidari A. 2019. Market Analysis of Glycobiology and Glycochemistry 2020. *J Genet Disor Genet Rep.* 8: 1.
345. Heidari A, Schmitt k, Henderson M, et al. 2019. Synchrotron Radiation Emission as a Function of the Beam Energy and Thorium Nanoparticles. *International Medicine.* 2: 67-73.
346. Heidari A, Schmitt k, Henderson M, et al. 2019. Stochastic Study of Relativistic Lutetium Nanoparticles Moving in a Quantum Field of Synchrotron Radiation Emission When Charged Lutetium Nanoparticles Are Accelerated Radially in Human Cancer Cells, Tissues and Tumors Treatment. *Frontiers Drug Chemistry Clinical Res.* 3: 1-15.
347. Heidari A, Schmitt k, Henderson M, et al. 2019. Recent New Results and Achievements of California South University (CSU) BioSpectroscopy Core Research Laboratory for COVID-19 or 2019-nCoV Treatment: Diagnosis and Treatment Methodologies of “Coronavirus. *Journal of Current Viruses and Treatment Methodologies.* 1: 3-41.
348. Heidari A. 2019. 2020. Awards 2020 on Glycobiology. *J Mol Biol Methods.* 2: 2.
349. Heidari A. 2019. Young Research Forum-Young Scientist Awards at Glycobiology 2020. *J Genet Disor Genet Rep.* 8: 2.
350. Heidari A. 2020. Awards on 2nd World Congress on Neurology. *J Neurol Neurophysiol.* 10: 6.
351. Heidari A. 2019. 2020 Conference Announcement on 2nd World Congress on Neurology”, *J Neurol Neurophysiol.* 10: 6.
352. Heidari A. 2019. Awards for Best Research: Gastroenterology and Digestive Disorders”, *J. Med. Med. Sci.* Vol. 10: 2.
353. Heidari A. 2019. Market Analysis: Gastroenterology and Digestive Disorders”, *J. Med. Med. Sci.* 10: 2.
354. Heidari A, Schmitt k, Henderson M, et al. 2020. Study of Human Cancer Cells, Tissues and Tumors Treatment Through Interaction Between Synchrotron Radiation and Cerium Nanoparticles. *Sci Lett.* 8: 7-17.
355. Heidari A, Schmitt k, Henderson M, et al. 2020. Study of Characteristic Polarization and the Frequencies Generated in Interaction of Synchrotron Radiation Emission and Actinium Nanoparticles in Human Cancer Cells, Tissues and Tumors Treatment Process. *Parana Journal of Science and Education (PJSE)-v.* 6: 13-47.
356. Heidari A, Schmitt k, Henderson M, et al. 2019. Californium Nanoparticles and Human Cancer Treatment: Commemorating the 100th (1920-2020) Anniversary of the California South University (CSU). *Parana Journal of Science and Education (PJSE)-v.* 6: 48-83.
357. Heidari A. 2019. 2020 Conference Announcement on Materials Chemistry. *J Polym Sci Appl.* 3: 1.
358. Heidari A. 2019. Announcement-Materials Chemistry-2020. *J Polym Sci Appl.* 3: 1.
359. Heidari A. 2019. Awards 2020 of 19th World Congress on Materials Chemistry. *J Polym Sci Appl.* 3: 1.
360. Heidari A. 2019. Awards at Materials Chemistry & Science Conference 2020. *J Polym Sci Appl.* 3: 1.
361. Heidari A. 2019. Market Analysis of 19th World Congress on Materials Chemistry. *J Polym Sci Appl.* 3: 1.
362. Heidari A. 2019. Past Conference Report on Materials Chemistry. *J Polym Sci Appl.* 3: 1.
363. Heidari A. 2019. Market Analysis. *J Polym Sci Appl.* 3: 4.
364. Heidari A. 2019. 17th International Conference Materials Science and Engineering. *J Electr Eng Electron Technol.* 8: 3.
365. Heidari A. 2019. 16th International Conference on Advance Material & Nanotechnology. *J Electr Eng Electron Technol.* 8: 4.
366. Heidari A. 2019. Young Research Forum on Laser Advanced Materials Processing. *J Electr Eng Electron Technol.* 8: 4.
367. Heidari A. 2019. Market Analysis of Materials Science and Engineering. *Biomater Med Appl.* 3: 1.
368. Heidari A. 2019. Nanotechnology 2020 Conference Announcement: Nanotechnology and Nano Engineering. *Biomater Med Appl.* 3: 1.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

369. Heidari A. 2019. 17th International Conference on Material Science and Engineering”, Biomater Med Appl. 3: 2.
370. Heidari A. 2019. Young Scientist Awards of Pharmacovigilance 2020. J Pharm Drug Deliv Res. 8: 1.
371. Heidari A. 2019. Awards 2020 on Pharmacovigilance & Drug Safety. J Pharm Drug Deliv Res. 8: 2.
372. Heidari A. 2019. 2020 Conference Announcement of World Congress on Glycobiology & Glycochemistry. J Cell Biol Res Ther. 8: 3.
373. Heidari A, Schmitt k, Henderson M, et al. 2020. A Chemical Review on Cancer Immunology and Immunodeficiency. International Journal of Advanced Chemistry. 8: 27-43.
374. Heidari A, Peterson V. 2020. A Comprehensive Review on Functional Roles of Cancerous Immunoglobulins and Potential Applications in Cancer Immunodiagnostics and Immunotherapy. International Journal of Advanced Chemistry. 8: 44-58.
375. Heidari A, Peterson V. 2020. An Encyclopedic Review on Stereotactic Hypofractionated Radiotherapy, Re-Irradiation, and Cancer Genome Research. International Journal of Advanced Chemistry. 8: 59-74.
376. Heidari A, Peterson V. 2020. A Pervasive Review on Biomarker in Cervical Intraepithelial Lesions and Carcinoma”, International Journal of Advanced Chemistry. 8: 75-88.
377. Heidari A, Schmitt k, Henderson M, et al. 2020. Hereditary Immunity in Cancer. International Journal of Advanced Chemistry. 8: 94-110.
378. Gobato R, Gobato MRR, Heidari A, et al. 2020. Secret Messages in Enigmatic Playful Texts. ABEB. 4: 1-10.
379. Gobato R, Gobato MRR, Heidari A, et al. 2020. Hartree-Fock Methods Analysis Protonated Rhodochrosite Crystal and Potential in the Elimination of Cancer Cells through Synchrotron Radiation Using Small-Angle X-Ray Scattering (SAXS), Ultra-Small Angle X-Ray Scattering (USAXS), Fluctuation X-Ray Scattering (FXS), Wide-Angle X-Ray Scattering (WAXS), Grazing-Incidence Small-Angle X-Ray Scattering (GISAXS), Grazing-Incidence Wide-Angle X-Ray Scattering (GIWAXS) and Small-Angle Neutron Scattering (SANS). AJAN. 1: 1-8.
380. Heidari A, Gobato R, Dosh IKK, et al. 2020. Single Layer Bioinorganic Membrane Using the Kurumi Molecule. AJAN. 1: 16-20.
381. Heidari A, Schmitt k, Henderson M, et al. 2020. Study of Pulsed Time Structure of Nobelium Nanoparticles in Human Cancer Cells, Tissues and Tumors Treatment Process Which Covers from Microwaves to Hard X-Rays. Dent Oral Maxillofac Res. 6: 1-17.
382. Gobato R, Gobato MRR, Heidari A, et al. 2020. Abraham-Lorentz-Dirac Force Approach to Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Rutherfordium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment. Dent Oral Maxillofac Res. 6: 1-17.
383. Gobato R, Gobato MRR, Heidari A, et al. 2020. Liénard-Wiechert Field Study of Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Seaborgium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment. Dent Oral Maxillofac Res. 6: 1-17.
384. Gobato R, Gobato MRR, Heidari A, et al. 2020. Lorenz Gauge, Electric and Magnetic Fields Study of Interaction of Gravitationally Accelerating Ions through the Super Contorted 'Tubular' Polar Areas of Magnetic Fields and Hassium Nanoparticles. Dent Oral Maxillofac Res. 6: 1-18.
385. Gobato R, Gobato MRR, Heidari A, et al. 2020. Scalar Abraham-Lorentz-Dirac-Langevin Equation, Radiation Reaction and Vacuum Fluctuations Simulation of Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Tennessine Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells,



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

Tissues and Tumors Treatment. Dent Oral Maxillofac Res. 6: 1-17.

386. Gobato R, Gobato MRR, Heidari A, et al. 2020. The Dynamics and Quantum Mechanics of an Interaction of Synchrotron Radiation Emission as a Function of the Beam Energy and Meitnerium Nanoparticles Using 3D Finite Element Method (FEM) as an Optothermal Human Cancer Cells, Tissues and Tumors Treatment. Dent Oral Maxillofac Res. 6: 1-17.

387. Heidari A. 2020. Future Advanced Study of Thin Layers of DNA/RNA Hybrid Molecule Nanostructure. J Mol Nanot Nanom. 2: 110-116.

388. Heidari A. 2019. Market Analysis-Artificial Intelligence 2020. J Comput Eng Inf Technol. 8: 4.

389. Heidari A. 2019. Conference Announcement on Artificial Intelligence. J Appl Bioinformat Computat Biol. 8: 2.

390. Heidari A. 2019. Awards on Artificial Intelligence and Cognitive Healthcare. J Appl Bioinformat Computat Biol. 8: 2.

391. Heidari A. 2020. Study of Thin Layers of Cadmium Oxide (CdO) Nanostructure. Nano Prog. 2: 1-10.

392. Heidari A. 2019. Young Researchers Awards: Young Scientist Awards & Best Poster Awards at Environmental Chemistry and Engineering Conference. J Civil Environ Eng. 9: 3.

393. Heidari A. 2019. 2020 Market Analysis of Environmental Chemistry and Engineering Conference August 19-20, 2020 | Paris, France. J Civil Environ Eng. 9: 4.

394. Heidari A. 2019. 2020 Awards for Environmental Chemistry and Engineering Conference August 19-20, 2020 | Paris, France. J Civil Environ Eng. 9: 4.

395. Heidari A. 2019. Past Conference Report of Environmental Chemistry and Engineering Conference. J Civil Environ Eng. 9: 4.

396. Heidari A. 2019. Awards Announcement on World Congress on Glycobiology & Glycochemistry. J Appl Microbiol Biochem. 3: 3.

397. Heidari A. 2019. Market Analysis of Glycobiology and Glycochemistry 2020. J Appl Microbiol Biochem. 3: 3.

398. Heidari A. 2019. Young Research Forum-Young Scientist Awards: Geriatric-Health-2020. J Aging Geriatr Med. 3: 3.

399. Heidari A. 2019. Young Scientist Awards at Tissue Engineering 2020 for the Best Researches in Tissue Engineering & Regenerative Medicine. J Aging Geriatr Med. 3: 3.

400. Heidari A. 2020. Effect of Solvent on Non-Linear Synchrotron Absorption of Multi-Walled Carbon Nanotubes (MWCNTs) with DNA/RNA Function. Sci. Int. (Lahore). 32: 291-315.

. Heidari A, Schmitt k, Henderson M, et al. 2020. Study of Copernicium Nanoparticles Delivery Process in Human Cancer Cells, Tissues and Tumors Under Gravitationally Accelerating Ions Through the Super Contorted 'Tubular' Polar Areas of Magnetic Fields. Adv. Sci. Eng. Med. 12: 571-575.

402. Heidari A, Schmitt k, Henderson M, et al. 2020. Specific and Selective Targeting Human Cancer Cells, Tissues and Tumors with Seaborgium Nanoparticles as Carriers and Nano-Enhanced Drug Delivery and Therapeutic in Cancer Treatment and Beyond under Synchrotron Radiation. Parana Journal of Science and Education. 6: 8-50.

403. Heidari A. 2020. Enhancement of Visible Synchrotron Absorption in Cadmium Oxide (CdO) Nanoparticles Thin Layer Using Plasmonic Nanostructures: A Two-Dimensional (2D) Simulation. Sci. Int. (Lahore). 32: 329-354.

404. Heidari A, Schmitt k, Henderson M, et al. 2020. Nanomedicines Based Americium Nanoparticles Drug Delivery Systems for Anti-Cancer Targeting and Treatment under Synchrotron Radiation. Dent Oral Maxillofac Res. 6: 1-18.

405. Heidari A, Schmitt k, Henderson M, et al. 2020. Study of Exclusively Focused on Translational Aspects of Praseodymium Nanoparticles Drug Delivery under Super



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

Contorted Tubular Polar Areas of Magnetic Fields as Optothermal Human Gum Cancer Cells, Tissues and Tumors Treatment Technique under Synchrotron Radiation. *Dent Oral Maxillofac Res.* 6: 1-17.

406. Heidari A, Schmitt k, Henderson M, et al. 2020. Research Activities on Novel Drug Delivery Systems of Astatine Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res.* 6: 1-17.

407. Heidari A, Schmitt k, Henderson M, et al. 2020. Unprecedented Progresses of Biomedical Nanotechnology during Conventional Smart Drug Delivery Systems (SDDSs) of Francium Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res.* 6: 1-20.

408. Heidari A, Schmitt k, Henderson M, et al. 2020. Invasive Image-Guided Targeted Drug Delivery of Radium Nanoparticles in Human Gum Cancer Cells, Tissues and Tumors Treatment under Synchrotron Radiation. *Dent Oral Maxillofac Res.* 6: 1-20.

409. Heidari A. 2018. A Novel Approach to Reduce Toxicities and to Improve Bioavailabilities of DNA/RNA of Human Cancer Cells-Containing Cocaine (Coke), Lysergide (Lysergic Acid Diethyl Amide or LSD), Δ^9 -Tetrahydrocannabinol (THC) [(-)-trans- Δ^9 -Tetrahydrocannabinol], Theobromine (Xantheose), Caffeine, Aspartame (APM) (NutraSweet) and Zidovudine (ZDV) [Azidothymidine (AZT)] as Anti-Cancer Nano Drugs by Coassembly of Dual Anti-Cancer Nano Drugs to Inhibit DNA/RNA of Human Cancer Cells Drug Resistance. *Ely J Mat Sci Tech.* 1: 1-2.

410. Heidari A. 2020. Investigation of Prevention, Protection and Treatment of Lopinavir Effectiveness on Coronavirus Disease-2019 (COVID-19) Infection Using Fourier Transform Raman (FT-Raman) Biospectroscopy. *AJAN.* 1: 36-60.

411. Heidari A. 2020. Stimulated FT-IR Biospectroscopic Study of Lopinavir Protective

and Therapeutic Effect as a Potent Drug on Coronavirus Disease-2019 (COVID-19) Infection. *AJAN.* 1: 61-85.

412. Heidari A, Gobato R. 2020. The Comparison of Active Cooperative and Traditional Teaching Methods in Nanochemistry Students' Satisfaction and Learning of Clinical Nanochemistry. *AJAN.* 1: 86-112.

413. Heidari A, Gobato R. 2020. Study of Nanochemistry Students' Satisfaction and Learning with Blended Education: An Action Research Study. *AJAN.* 1: 113-138.

414. Heidari A. 2020. Study of Stimulated Raman Biospectroscopy in Lopinavir as a Potent Drug against Coronavirus Disease-2019 (COVID-19) Infection. *AJAN.* 1: 139-163.

415. Heidari A. 2020. In Situ Monitoring of Ritonavir Protective and Therapeutic Influence as a Potent Drug on Coronavirus Disease-2019 (COVID-19) Infection by Attenuated Total Reflectance-Fourier Transform Infrared (ATR-FTIR Fingerprint) Biospectroscopy. *Saudi J Biomed Res.* 5: 128-151.

416. Heidari A. 2020. A Stimulated FT-IR Biospectroscopic Study of Ritonavir Protective and Therapeutic Effect as a Potent Drug on Coronavirus Disease-2019 (COVID-19) Infection. *Saudi J Biomed Res.* 5: 152-174.

417. Heidari A. 2020. Application of Single-Walled Carbon Nanotubes (SWCNT) in the Production of Glucose Biosensors and Improving Their Performance Using Gold Colloidal Nanoparticles and Usage of Polyaniline Nanostructure-Based Biosensors for Detecting Glucose and Cholesterol. *Malaysian Journal of Chemistry, Vol. 22:* 121-162.

418. Heidari A. 2020. In Situ Monitoring of Lopinavir Protective and Therapeutic Influence as a Potent Drug on Coronavirus Disease-2019 (COVID-19) Infection by Attenuated Total Reflectance-Fourier Transform Infrared (ATR-FTIR Fingerprint) Biospectroscopy. *Parana Journal of Science and Education (PJSE).* 6: 29-60.

419. Heidari A, Schmitt k, Henderson M, et al. 2020. Modelling and Simulation of Interaction



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- of Magnetobremstrahlung Radiation and Nihonium Nanoparticles Using Bending Magnets, Undulators and/or Wigglers in Storage Rings for Human Cancer Cells, Tissues and Tumors Treatment. *Sci. Int. (Lahore)*. 32: 361-385.
420. Heidari A. 2020. Oncological Study of Thin Layers of Imatinib Molecule Nanostructure for Chronic Myelogenous Leukemia (CML), Acute Lymphocytic Leukemia (ALL), Philadelphia Chromosome-Positive (Ph+), Gastrointestinal Stromal Tumors (GIST), Hypereosinophilic Syndrome (HES), Chronic Eosinophilic Leukemia (CEL), Systemic Mastocytosis and Myelodysplastic Syndrome Treatment. *Adv. Sci. Eng. Med.* 12: 753-760.
421. Heidari A. 2019. Infrastructure of Synchrotronic Biosensor Based on Semiconductor Device Fabrication for Tracking, Monitoring, Imaging, Measuring, Diagnosing and Detecting Cancer Cells. *Semiconductor Science and Information Devices*. 1: 29-57.
422. Heidari A. 2020. In Situ Characterization of Lopinavir by ATR-FTIR Biospectroscopy. *Computational Chemistry*. 8: 27-42.
423. Heidari A. 2020. Study of Stimulated Raman Biospectroscopy in Ritonavir as a Potent Drug against Coronavirus Disease-2019 (COVID-19) Infection. *Saudi J Biomed Res.* 5: 188-211.
424. Heidari A. 2020. Investigation of Prevention, Protection and Treatment of Ritonavir Effectiveness on Coronavirus Disease-2019 (COVID-19) Infection Using Fourier Transform Raman (FT-Raman) Biospectroscopy. *Saudi J Biomed Res.* 5: 212-235.
425. Gobato R, Heidari A. 2020. Cyclone Bomb H its Southern Brazil in Mid-Winter 2020. *Journal of Atmospheric Science Research*. 3: 8-12.
426. Heidari A. 2020. A Biospectroscopic and Bioimaging Analysis of Imatinib Nanoparticles Aggregation Linked to DNA/RNA by Bcr-Abl Tyrosine-Kinase Inhibitors (TKI) with Various Chain Length. *Sci. Int. (Lahore)*, 32: 459-482.
427. Heidari A. 2019. Future Perspectives and Shaping Trends in Gastroenterology and Digestive Disorders. *J Health Med Res.* 1: 47-48.
428. Heidari A. 2020. Latest Research Works and Innovations in the Field of Oncology”, *J Carcinog Mutagen.* 11: 126.
429. Heidari A. 2020. Investigating the Effect of Synchrotron Removal from Raman Spectra for Quantitative Analysis of Cancer Tissues. *Current Research in Cytology and Histology*. 1: 29-35.
430. Gobato R, Gobato MRR, Heidari A, et al. 2020. Potential in the Elimination of Cancer Cells through Synchrotron Radiation: A Hartree-Fock Methods Analysis Protonated Rhodochrosite Crystal. *Dent Oral Maxillofac Res.* 6: 1-8.
431. Gobato R, Gobato MRR, Heidari A, et al. 2020. Infrared Spectrum, Apt Charges and Mulliken of Hartreefock Methods Protonated Rhodochrosite Crystal. *Dent Oral Maxillofac Res.* 6: 1-8.
432. Gobato R, Dosh IKK, Heidari A, et al. 2020. A Novel and Exquisite Approach to Single Layer Bioinorganic Membranes. *Dent Oral Maxillofac Res.* 6: 1-4.
433. Heidari A. 2020. Manufacture of Synchrotronic Biosensor Using Os-Pd/HfC Nanocomposite for Tracking, Monitoring, Imaging, Measuring, Diagnosing and Detecting Cancer Cells. *Journal of Clinical and Translational Oncology*. 1: 20-26.
434. Heidari A. 2020. Role and Applications of Synchrotron Removal from Raman Spectra for Quantitative Analysis of Cancer Tissues. *Aswan University Journal of Environmental Studies (AUJES)*. 1: 57-96.
435. Heidari A. 2020. Investigation of Role and Applications of Polymeric Stimuli-Responsive Nanocomposite Materials as Biomolecules for Cancer Targeted in Anti-Cancer Nano Drugs Delivery Agents and Systems. *Parana Journal of Science and Education (PJSE)*. 6: 39-74.
436. Gobato R, Gobato MRR, Heidari A, et al. 2020. Vortex Cotes's Spiral in an Extratropical Cyclone in the Southern Coast of Brazil”,



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrm.2021.110034> OJRM: December-2021: Page No: 584-625

Archives in Biomedical Engineering & Biotechnology. 4: 1-4.

437. Gobato R, Heidari A. 2020. Vortex Hits Southern Brazil in 2020", J Cur Tre Phy Res. 2: 109-112.

438. Heidari A. 2020. Synthesis of Fructose Biosensors and Progressing Their Efficiency Using Californium Colloidal Nanoparticles for Detecting Fructose and Triglycerides. Adv. Sci. Eng. Med. 12: 1002-1017.

439. Gobato R, Gobato MRR, Heidari A, et al. 2020. Cotes's Spiral Vortex in Extratropical Cyclone Bomb South Atlantic Oceans. Aswan University Journal of Environmental Studies (AUJES). 1: 147-156.

440. Heidari A. 2019. Young Researcher Forum for 2nd World Congress on Neurology. J Neurol Neurophysiol, 10: 4.

441. Heidari A. 2020. World Congress on Health and Medical Science. Journal of Emerging Diseases and Preventive Medicine. 3: 01.

442. Heidari A. 2020. Scientific Challenges and Recent Advancements of Dermatology and Cosmetology. J Clin Exp Pathol. 3.

443. Gobato R, Heidari A, Mitra A. 2021. Bioinorganic Membrane Using Kurumi, A New Liquid Crystal. Sumerianz Journal of Biotechnology. 4: 4-7.

444. Heidari A. 2021. A Stimulated FT-IR Biospectroscopic Study of Lopinavir Protective and Therapeutic Effect as a Potent Drug on Coronavirus Disease-2019 (COVID-19) Infection. Parana Journal of Science and Education (PJSE)-v. 7: 1-33.

445. Heidari A. 2021. Simulation of the Variations of Surface Synchrotron Resonance Spectrum of Arranged Cadmium Oxide (CdO) Nanoparticles over Cancer Tissues Matrix with Size and Distance. Parana Journal of Science and Education (PJSE)-v. 7: 34-67.

446. Heidari A, Gobato R. 2020. Spherical Paramagnetic Contribution to Shielding Tensor Analysis of Nuclear Magnetic Resonance Signals in Gum Cancer Cells, Tissues and Tumors. Dent Oral Maxillofac Res. 6: 1-2.

447. Heidari A, Gobato R. 2020. Exact NMR Simulation of Anti-Cancer Nano Drug-

DNA/RNA Complexes in Gum Cancer Cells Spin Systems Using Tensor Train Formalism. Dent Oral Maxillofac Res. 6: 1-2.

448. Heidari A, Gobato R. 2020. The Anti-Cancer Nano Drug Delivery ¹³C-Edited/¹³C-Filtered Transferred Dynamic ¹⁵N{¹H} NOE Measurements for Studying DNA/RNA Interactions with Short Non-Linear Motifs: A Modern Tool for Studying DNA/RNA Dynamics in Gum Cancer Cells. Dent Oral Maxillofac Res. 6: 1-2.

449. Heidari A, Gobato R. 2020. DNA/RNA of Gum Cancer Cells-Anti-Cancer Nano Drugs Ligands Structure Determination with the Two-Dimensional NMR Molecular Line Shape Analysis of Single, Multiple, Zero and Double Quantum Correlation Experiments. Dent Oral Maxillofac Res. 6: 1-3.

450. Heidari A, Gobato R. 2020. Investigation of the Internal Structure and Dynamics of Gum Cancer Cells, Tissues and Tumors by ¹³C-NMR Spectra of DNA/RNA of Gum Cancer Cells as an Essential Structural Tool for Integrative Studies of Gum Cancer Cells Development", Dent Oral Maxillofac Res. 6: 1-3.

451. Heidari A, Gobato R. 2020. NMR and Molecular Dynamics Studies Combined to Anti-Cancer Nano Drugs and DNA/RNA Interactions in Gum Cancer Cells and Their Modulations with Resistance Mutations. Dent Oral Maxillofac Res. 6: 1-2.

452. Heidari A, Gobato R. 2020. Advanced Isotopic Labeling for the NMR Investigation of Challenging DNA/RNA of Gum Cancer Cells and Anti-Cancer Nano Drugs for Production of Isotope-Labeled DNA/RNA in Gum Cancer Cells for NMR Spectroscopy. Dent Oral Maxillofac Res. 6: 1-3.

453. Heidari A, Gobato R. 2020. Simultaneous Detection of Intra- and Inter-Molecular Paramagnetic Relaxation Enhancements in DNA/RNA of Gum Cancer Cells-Anti-Cancer Nano Drugs Complexes. Dent Oral Maxillofac Res. 6: 1-2.

454. Heidari A, Gobato R. 2020. Impact of DNA/RNA Self-Alignment in a Strong Magnetic Field on the Interpretation of Indirect



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

Spin-Spin Interactions Using NMR Line Shape Analysis of a Multi-State DNA/RNA Ligand Binding Mechanism in Gum Cancer Cells. *Dent Oral Maxillofac Res.* 6: 1-2.

455. Heidari A, Gobato R. 2020. Application of Anti-Cancer Nano Drugs Particles (ACNDP) to NMR Characterization of Viral Gum Cancer Cell Membrane DNA/RNA Interactions for Extracting DNA/RNA Dynamics Information from Overlapped NMR Signals Using Relaxation Dispersion Difference NMR Spectroscopy. *Dent Oral Maxillofac Res.* 6: 1-2.

456. Heidari A, Gobato R. 2020. Diagnosis of Gum Cancer Cells from DNA/RNA Using Database Mining and Support Vector Regression through High Resolution 4D HPCH Experiment for Sequential Assignment of ¹³C-Labeled DNAs/RNAs in Gum Cancer Cells. *Dent Oral Maxillofac Res.* 6: 1-2.

457. Heidari A, Gobato R. 2020. New Opportunities for Tensor-Free Calculations of Residual Dipolar Couplings for the Study of Dynamic Nuclear Polarization of Nucleic Acids with Endogenously Bound Manganese in Gum Cancer Cells. *Dent Oral Maxillofac Res.* 6: 1-2.

458. Heidari A. 2021. Pros and Cons Controversy on Synchrotronic Biosensor Using Os-Pd/HfC Nanocomposite for Tracking, Monitoring, Imaging, Measuring, Diagnosing and Detecting Cancer Cells, Tissues and Tumors. *Indones. J. Cancer Chemoprevent.* 12: 1-10.

459. Gobato R, Heidari A, Valverde LF. 2021. ACTG Based on Silicon Getting News Structures Asi, Csi, Tsi and Gsi”, *Arch Biomed Eng & Biotechnol.* 5: 1-2.

460. Heidari A, Gobato R. 2020. A Biospectroscopic Assignment Technique for Gum Cancer Cell Membrane DNA/RNA Reconstituted in Magnetically Aligned Gum Cancer Cells for Solid-State NMR Analysis of Gum Cancer Cell Membrane DNA/RNA and Nucleic Acids Aggregates by Proton Detected Spectroscopy. *Glob Imaging Insights.* 6: 1-2.

461. Heidari A, Gobato R. 2020. Integrated Analysis of the Conformation of a DNA/RNA-Linked Spin Label by Combining NMR

Ensembles and Molecular Dynamics Simulations Provides More Realistic Models of DNA/RNA Structures in Gum Cancer Cells Using Optimization of NMR Spectroscopy of Encapsulated DNA/RNA Dissolved in Gum Cancer Cells. *Glob Imaging Insights.* 6: 1-3.

462. Gobato R, Heidari A, Valverde LF. 2021. Modelling and Simulation of ¹³C, ¹⁵N, ¹⁷O NMR Chemical Shifts, ¹⁷O and ¹⁴N Electric Field Gradients and Measurement of ¹³C and ¹⁵N Chemical Shifts in DNA/RNA of Human Gum Cancer Cells, Tissues and Tumors Using NMR Biospectroscopic Profiling for Novel Systems Diagnostics. *Glob Imaging Insights.* 6: 1-2.

463. Gobato R, Heidari A, Valverde LF. 2021. Theoretical ¹³C Chemical Shift, ¹⁴N, and ²H Quadrupole Coupling-Constant Studies of Hydrogen Bonding for Measurement and Calculation of ¹³C and ¹⁵N NMR Chemical-Shift Tensors in DNA/RNA of Gum Cancer Cells Identification: A Powerful Alternative”, *Glob Imaging Insights.* 6: 1-2.

464. Gobato R, Heidari A, Valverde LF. 2021. Conformational Study of a Strained DNA/RNA by Dynamic ¹H NMR Biospectroscopy and Computational Methods for Molecular Modelling, Simulation and Bioelectroscopic Studies of DNA/RNA of Gum Cancer Cells. *Dent Oral Maxillofac Res.* 7: 1-2.

465. Gobato R, Heidari A, Valverde LF. 2021. Current Advances in the Application of Dynamic NMR Studies of DNA/RNA Intra-and Inter Molecular Effect on Ring Inversion Rate Constants for Molecular Diagnosis of Gum Cancer. *Dent Oral Maxillofac Res.* 7: 1-2.

466. Gobato R, Heidari A, Valverde LF. 2021. NMR-Based Metabolomics Approach to Target Biomarkers Such as DNA/RNA for New Frontiers of Diagnostic Strategies for Prevention, Prognosis, Diagnosis and Treatment of Gum Cancer Tumor Metabolism”, *Dent Oral Maxillofac Res.* 7: 1-2.

467. Gobato R, Heidari A, Valverde LF. 2021. Spherical Tensor Analysis of Nuclear Magnetic Resonance Signals for Understanding Chemical Shielding Tensors of DNA/RNA in Gum Cancer Cells Using Group Theory, MO



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrm.2021.110034> OJRM: December-2021: Page No: 584-625

Analysis, and Modern Density-Functional Theory. Dent Oral Maxillofac Res. 7: 1-2.

468. Heidari A, Hotz M, MacDonald N, et al. 2021. Introducing Cadmium Oxide (CdO) Smart Nanoparticles as Detector for Diagnosis of Signals from Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations. International Journal of Advanced Engineering and Science. 10: 20-64.

469. Heidari A, Hotz M, MacDonald N, et al. 2021. Iridium (IV) Oxide (IrO₂) Nanoparticles Shut Down Cancer Growth Using Iridium (IV) Oxide (IrO₂) Nanoparticles to Deliver a Nucleic Acid (DNA/RNA) into Tumor Cells under Synchrotron and Synchrocyclotron Radiations. Parana Journal of Science and Education (PJSE). 7: 200-235.

470. Heidari A, Hotz M, MacDonald N, et al. 2021. Emerging Use of Osmium Dioxide (OsO₂) and Osmium Tetroxide (OsO₄) Nanoparticles in Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management of Cancer under Synchrotron and Synchrocyclotron Radiations. Parana Journal of Science and Education (PJSE). 7: 163-199.

471. Heidari A, Hotz M, MacDonald N, et al. 2021. Biopolymer Rhenium (IV) Oxide (ReO₂), Rhenium Trioxide (ReO₃) and Rhenium (VII) Oxide (Re₂O₇) Nanoparticles for Targeted Cancer Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management under Synchrotron and Synchrocyclotron Radiations. Parana Journal of Science and Education (PJSE). 7: 126-162.

472. Heidari A, Hotz M, MacDonald N, et al. 2021. Biocompatible Core-Shell Advanced Magnetic Rhodium (III) Oxide or Rhodium Sesquioxide (Rh₂O₃) and Rhodium (IV) Oxide (RhO₂) Nanoparticles for Cancer Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management under Synchrotron and Synchrocyclotron Radiations. Parana Journal of Science and Education (PJSE). 7: 89-125.

473. Heidari A, Hotz M, MacDonald N, et al. 2021. Targeted Biopolymeric Ruthenium (IV) Oxide (RuO₂) and Ruthenium (VIII) Oxide

(RuO₄) Nanoparticles Loaded with Cetuximab and Decorated with Somatostatin Analogue to Colon Cancer under Synchrotron and Synchrocyclotron Radiations. Parana Journal of Science and Education (PJSE). 7: 52-88.

474. Heidari A, Hotz M, MacDonald N, et al. 2021. Future Studies of Cancer Immunotherapy Using Cadmium Oxide (CdO) Nanoparticles as Anti-Cancer Nano Drug Delivery Could Be the Future of Targeted Cancer Therapies under Synchrotron and Synchrocyclotron Radiations. Parana Journal of Science and Education (PJSE). 7: 15-51.

475. Heidari A. 2021. Removal of Cancer Cells Using Thin Layers of Cadmium Oxide (CdO)-DNA/RNA Sandwiched Complex Composite Plasmonic Nanostructure under Synchrotron Radiation. Organic Polymer Material Research. 3: 1-15.

476. Gobato R, Heidari A, Valverde LF. 2021. Infrared Spectrum for the New Exobiological Nanomolecules Asi, Csi, Tsi and Gsi”, Sumerianz Journal of Scientific Research. 4: 25-31.

477. Heidari A. 2020. Study of Physical Properties of Cadmium Oxide (CdO) and CdO/DNA/RNA Nanostructures Thin Layers Produced by Spray Pyrolysis Technique for Manufacturing Cadmium Oxide (CdO) Nanoparticles and Evaluation of the Effect of DNA/RNA Doping on Their Optical Characteristics. Adv. Sci. Eng. Med. 12: 1224-1230.

478. Heidari A. 2020. Vibrational Biospectroscopic Study on Biomedical and Clinical Engineering of Cancer Cells Fingerprints. Adv. Sci. Eng. Med. 12: 1272-1284.

479. Heidari A. 2020. Effect of Temperature on DNA/RNA-Cadmium Oxide (CdO) Complex Nanoparticles Produced by Synchrotronic Laser Ablation Method in the Cancer Cells. Adv. Sci. Eng. Med. 12: 1315-1322.

480. Heidari A. 2020. Cadmium Oxide (CdO)-DNA/RNA Sandwiched Complex Composite Plasmonic Nanostructure in Cancer Cells under Synchrotron Radiation. Nano Prog. 3: 35-47.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

481. Heidari A, Hotz M, MacDonald N, et al. 2021. The Effect of Solution Molarity on the Structural, Morphological, Optical and Electrical Properties of Nanostructured Cadmium Oxide (CdO) Nano Thin Films as Anti-Cancer Nano Drug in Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations. *Int J Hematol Oncol.* 4: 16-60.
482. Heidari A, Hotz M, MacDonald N, et al. 2021. Annealing Effects on the Interband Transition and Optical Constants of Ruthenium (IV) Oxide (RuO₂) and Ruthenium (VIII) Oxide (RuO₄) Nano Thin Films in Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations. *Int J Hematol Oncol.* 4: 61-105.
483. Heidari A, Hotz M, MacDonald N, et al. 2021. Rhodium (III) Oxide or Rhodium Sesquioxide (Rh₂O₃) and Rhodium (IV) Oxide (RhO₂) Effect on the Stop Growth of Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations. *Int J Hematol Oncol.* 4: 106-149.
484. Heidari A, Hotz M, MacDonald N, et al. 2021. Removal Role, Application and Effect of Nanocluster Rhenium (IV) Oxide (ReO₂), Rhenium Trioxide (ReO₃) and Rhenium (VII) Oxide (Re₂O₇) Thin Films Delivery in DNA/RNA of Cancer Cells under Synchrotron and Synchrocyclotron Radiations. *Int J Hematol Oncol.* 4: 150-194.
485. Heidari A, Hotz M, MacDonald N, et al. 2021. Catalytic Effectiveness of Synchrotron and Synchrocyclotron Radiations on Osmium Dioxide (OsO₂) and Osmium Tetroxide (OsO₄) Nano Capsules Delivery in DNA/RNA of Cancer Cells. *Int J Hematol Oncol.* 4: 195-238.
486. Heidari A, Hotz M, MacDonald N, et al. 2021. Advanced Studies on the Effect of Transition Metal Doped Iridium (IV) Oxide (IrO₂) Nano Thin Films in Cancer Cells, Tissues and Tumors under Synchrotron and Synchrocyclotron Radiations. *Int J Hematol Oncol.* 4: 239-282.
487. Heidari A, Hotz M, MacDonald N, et al. 2021. Cadmium Oxide (CdO) Nanoparticles-Based Drug Delivery in Cancer Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management and its Role and Application in Overcoming Drug Resistance under Synchrotron and Synchrocyclotron Radiations. *International Journal of Advanced Chemistry.* 9: 80-98.
488. Heidari A, Hotz M, MacDonald N, et al. 2021. Active Targeting of Rhenium (IV) Oxide (ReO₂), Rhenium Trioxide (ReO₃) and Rhenium (VII) Oxide (Re₂O₇) Nanoparticles as Cancer Therapeutics Swell-up to Kill Cancer Cells under Synchrotron and Synchrocyclotron Radiations. *International Journal of Advanced Chemistry.* 9: 103-121.
489. Heidari A, Hotz M, MacDonald N, et al. 2021. Ruthenium (IV) Oxide (RuO₂) and Ruthenium (VIII) Oxide (RuO₄) Smart Nano Particles, Nano Capsules and Nanoclusters Influence, Impression and Efficacy in Cancer Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management under Synchrotron and Synchrocyclotron Radiations. *American Journal of Materials Engineering and Technology.* 9: 1-20.
490. Heidari A, Hotz M, MacDonald N, et al. 2021. Cadmium Oxide (CdO) Smart Nano Particles, Nano Capsules and Nanoclusters Influence, Impression and Efficacy in Cancer Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management under Synchrotron and Synchrocyclotron Radiations. *Journal of Materials Physics and Chemistry.* 9: 26-46.
491. Heidari A, Locci E, Raymond S. 2020. Emerging Concepts for Immune Checkpoint Blockade-Based Combination Therapies. *J. Res. Chem.* 1: 05-16.
492. Heidari A, Locci E, Raymond S. 2020. Accelerating the Diagnosis and Treatment of Cancer Using Digital Pathology. *J. Res. Chem.* 2: 23-34.
493. Heidari A, Locci E, Raymond S. 2020. Adoption of Artificial Intelligence (AI) in Breast Imaging and Breast Cancer Detection in Mammography and Digital Breast Tomosynthesis. *J. Res. Chem.* 2: 11-22.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

494. Heidari A, Locci E, Raymond S. 2020. Tumor Diagnosis and Treatment Monitoring Using DNA/RNA in Blood to Detect, Track and Treat Cancer. *J. Res. Chem.* 2: 16-26.
495. Heidari A, Locci E, Raymond S. 2020. Innovative Approaches for Cancer Treatment, Current Perspectives and New Challenges in Bio-Spectroscopy Core Research Laboratory of Cancer Research Institute (CRI), California South University (CSU). *J. Res. Chem.* 1: 01-07.
496. Heidari A, Locci E, Raymond S. 2020. T Cell Reprogramming against Cancer. *J. Res. Chem.* 1: 17-28.
497. Heidari A, Locci E, Raymond S. 2020. Physiology and Pathology of Innate Immune Response against Pathogens. *J. Res. Chem.* 1: 36-47.
498. Heidari A, Locci E, Raymond S. 2020. Role and Applications of Artificial Intelligence (AI) and Biomedical Vibrational Spectroscopy in Cancer Diagnostics. *J. Res. Chem.* 1: 53-64.
499. Heidari A, Locci E, Raymond S. 2021. Assessing the Role and Applications of Circulating, Genetic and Imaging Biomarkers in Cardiovascular Risk Prediction. *J. Res. Chem.* 2: 32-43.
500. Heidari A, Locci E, Raymond S. 2020. Circulating Nucleic Acids as Biomarkers in Breast Cancer”, *J. Res. Chem.* 2: 39-50.
501. Heidari A, Locci E, Raymond S. 2021. What Are Answer Strategies Being Researched to Cure or Treat Cancer. *Int J Hematol Oncol.* 4: 283-326.
502. Heidari A, Locci E, Raymond S. 2021. Mammo Screen Artificial Intelligence (AI) Tool Improves Diagnostic Performance of Radiologists in Detecting Breast Cancer. *Int J Hematol Oncol.* 4: 327-370.
503. Heidari A, Locci E, Raymond S. 2020. Next Generation Diagnostic Pathology Using Digital Pathology and Artificial Intelligence (AI) Tools to Augment a Pathological Diagnosis. *Int J Hematol Oncol.* 4: 371-413.
504. Heidari A, Locci E, Raymond S. 2021. Mechanistic Basis and Therapeutic Strategies in Immune Evasion in Cancer. *Int J Hematol Oncol.* 4: 414-457.
505. Heidari A, Locci E, Raymond S. 2021. Tumor Circulome in the Liquid Biopsies for Cancer Diagnosis and Prognosis. *Int J Hematol Oncol.* 4: 458-500.
506. Heidari A, Locci E, Raymond S. 2020. Combinatorial Approaches with Checkpoint Inhibitors to Enhance Anti-Tumor Immunity as Advantages of Targeting the Tumor Immune Microenvironment over Blocking Immune Checkpoint in Cancer Immunotherapy. *Int J Hematol Oncol.* 4: 501-547.
507. Heidari A, Locci E, Raymond S. 2020. Prediction of the Survival Outcomes of Patients with Non-Small Cell Cancer Using 18F-Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography and Clinicopathological Factors. *Int J Hematol Oncol.* 4: 548-593.
508. Heidari A, Locci E, Raymond S. 2020. Nucleic Acids Aptamer Application in Diagnosis and Therapy of Cancer Based on Cell-SELEX Technology. *Int J Hematol Oncol.* 4: 594-636.
509. Heidari A, Locci E, Raymond S. 2020. The Immune System of the Human Body in Defense against Cancer. *Int J Hematol Oncol.* 4: 637-679.
510. Heidari A, Locci E, Raymond S. 2021. Advancing Cancer Diagnostics with Artificial Intelligence (AI) and Biomedical Vibrational Spectroscopy for Identifying Chemical Changes Associated with Breast Cancer. *Int J Hematol Oncol.* 4: 680-725.
511. Gobato R, Heidari A, Valverde LF, et al. 2021. H NMR Spectroscopy of the New Xalapa Molecule. *Arch Biomed Eng & Biotechnol.* 6: 2021.
512. Heidari A, Hotz M, MacDonald N, et al. 2021. A New Strategy to Destroy Cancer Cells Using Osmium Dioxide (OsO₂) and Osmium Tetroxide (OsO₄) Nanoparticles and Magnetic Fields under Synchrotron and Synchrocyclotron Radiations”, *International Journal of Advanced Chemistry.* 9: 122-140.
513. Heidari A, Locci E, Raymond S. 2021. Effective Cancer Treatment Technique in BioSpectroscopy Core Research Laboratory of Cancer Research Institute (CRI) at California



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

- South University (CSU). Parana Journal of Science and Education (PJSE). 7: 8-45.
514. Heidari A, Locci E, Raymond S. 2021. Artificial Intelligence Program to Support Breast Cancer Screening Using a Set of CT Scans”, Parana Journal of Science and Education (PJSE). 7: 46-83.
515. Heidari A, Hotz M, MacDonald N, et al. Iridium (IV) Oxide (IrO₂) Nanoparticles and Cancers. American Journal of Physical Chemistry. 10: 61-65.
516. Heidari A, Locci E, Raymond S. 2021. A Smart Approach of Modern Therapeutics to Dysregulating Lysosome Functions in Cancer Cells by Specific Drugs and Its Nanoformulations. J Chem Appl. 3: 80-120.
517. Heidari A, Locci E, Raymond S. 2021. Implications for Treatment Strategies in Cancer and Infectious Diseases. J Chem Appl. 1: 121-159.
518. Heidari A, Locci E, Raymond S. 2021. Unlocking the Potential of Vaccines Built on Messenger RNA. J Chem Appl. 1: 160-197.
519. Heidari A, Locci E, Raymond S. 2021. Targeting the Prion-Like Aggregation of Mutant p53 to Combat Cancer. J Chem Appl. 1: 198-236.
520. Heidari A, Locci E, Raymond S. 2021. Epigenetic Regulation of Hematopoiesis and Acute Leukemia. J Chem Appl. 1: 237-275.
521. Heidari A, Locci E, Raymond S. 2021. Visualizing Metabolic Processes at the Single-Cell Level-Using Genetically Encoded Biosensor and Biomarker. J Chem Appl. 1: 276-314.
522. Heidari A, Locci E, Raymond S. 2021. Pediatric Brain Tumors Diagnosis and Treatment. J Chem Appl. 1: 315-352.
523. Heidari A, Locci E, Raymond S. 2021. Investigation of DNA Damage Induced by Alkylating Agents and Repair Pathways by Cooperating Mechanisms Driving the Formation of Colorectal Adenomas and Adenocarcinomas Using DNA Alkylation and DNA Methylation. 1: 353-394.
524. Heidari A, Locci E, Raymond S. 2021. and Challenges of Nanoparticle-Based Drug Delivery for Therapy of Lung Cancer. J Chem Appl. 1: 395-433.
525. Heidari A, Locci E, Raymond S. 2021. A Modernized Screening Technology for Cancer Non-Invasive Biodiversified Biosensors. J Chem Appl. 1: 434-472.
526. Heidari A, Hotz M, MacDonald N, et al. Interdisciplinary Approach to Iridium (IV) Oxide (IrO₂) Nanoparticles as Weapons against Cancer under Synchrotron and Synchrocyclotron Radiations. International Journal of Advanced Chemistry. 9: 168-187.
527. Gobato R, Mitra A, Heidari A. 2021. Strong Storms in the Guatambu, West of Santa Catarina. J Earth Sci Clim Change. 11: 588-593.
528. Gobato R, Haidari A, ValverdeLF, et al. 2021. Applying Ab Initio Hartree-Fock Methods to Exobiology Nano-Molecules. J Current Eng Technol. 3: 134-142.
529. Heidari A. 2021. Oncology of Cancer Cells Using Thin Layers of Cadmium Oxide (CdO)-DNA/RNA Sandwiched Complex Composite Plasmonic Nanostructure under Synchrotron Radiation. SCIOI Biomed. 2: 238-259.
530. Heidari A, Locci E, Raymond S. 2021. Diagnosis and Treatment of Cancer Using Pathology Slide Scanner. Parana Journal of Science and Education (PJSE)-v. 7: 18-54.
531. Heidari A, Locci E, Raymond S. 2021. Increasing the Level of Anti-Tumor T Cells to Allow Them to Kill Cancer Cells”, Parana Journal of Science and Education (PJSE)-v. 7: 55-92.
532. Heidari A, Locci E, Raymond S. 2021. Diagnosing and Monitoring Different Types of Tumors Using Fluid Biopsy to Identify and Track Tumor Growth. Parana Journal of Science and Education (PJSE)-v. 7: 93-129.
533. Heidari A, Locci E, Raymond S. 2021. A New Approach to Blocking an Immune Checkpoint (ICB) Treatments for Releasing the Brakes on the Immune System as an Effective Technique for Some Types of Cancer. Parana Journal of Science and Education (PJSE). 9: 130-167.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRMI: December-2021: Page No: 584-625

534. Heidari A, Locci E, Raymond S. 2021. Analysis of Clinical Risk Factors and Biological Markers of Proteins by Computed Tomography Imaging. *Parana Journal of Science and Education (PJSE)*. 9: 168-205.
535. Heidari A, Locci E, Raymond S. 2021. Labeling of Nucleic Acids such as DNA or RNA for Monitoring Cancer Cells, Tissues and Tumors. *Parana Journal of Science and Education (PJSE)*. 9: 206-243.
536. Heidari A, Locci E, Raymond S. 2021. Discover an Effective Mechanism for Faster Response of Immune Cells. *Parana Journal of Science and Education (PJSE)*. 9: 244-281.
537. Heidari A, Locci E, Raymond S. 2021. Detection of Cancerous Tissues without Previous Staining or Other Symptoms Using Artificial Intelligence (AI) and Vibrational Biospectroscopic Methods and Techniques. *Parana Journal of Science and Education (PJSE)*. 9: 282-309.
538. Heidari A, Locci E, Raymond S. 2021. An in-Depth Oncological and Mechanical Study of Lysosomes as Membrane-Bound Organs in Cancer Cells. *Parana Journal of Science and Education (PJSE)*. 7: 310-348.
539. Heidari A, Locci E, Raymond S. 2021. Overcoming Immune Depletion as the Main Goal of Developing New Therapies for Cancer or Severe Viral Infections. *Parana Journal of Science and Education (PJSE)*. 7: 349-387.
540. Heidari A, Locci E, Raymond S. 2021. Difference between an Optimal Immune Response as Aims to Kill Cancer and an Unwanted Response as Affect Healthy Tissue. *Parana Journal of Science and Education (PJSE)*. 9: 388-425.
541. Heidari A, Locci E, Raymond S. 2021. Amyloid Mimetic Protein Potentially Eliminates Cancer-Associated p53 Mutant Accumulation and Restores Tumor Suppressor Function. *Parana Journal of Science and Education (PJSE)*. 9: 426-463.
542. Heidari A, Locci E, Raymond S. 2021. The Strong, Highly Amplifying Binding of NUP98–HOXA9 Proteins to DNA Leads to Greater Activity of This Agent Which Predisposes to the Formation of Invasive Leukemias. *Parana Journal of Science and Education (PJSE)*. 9: 464-501.
543. Heidari A, Locci E, Raymond S. 2021. Understanding Cellular Metabolism (How Cells Use Energy) in Treating a Wide Range of Diseases Including Vascular Disease and Cancer. *Parana Journal of Science and Education (PJSE)*. 9: 502-539.
544. Heidari A, Locci E, Raymond S. 2021. Discover an Effective Way to Treat a Rare Brain Cancer in Children”, *Parana Journal of Science and Education (PJSE)*. 9: 540-577.
545. Heidari A, Locci E, Raymond S. 2021. Study of a Type of DNA Damage Called "Alkylation" in Cancer Cells. *Parana Journal of Science and Education (PJSE)*. 9: 578-615.
546. Heidari A, Locci E, Raymond S. 2021. Synthesis of a New Nano Drug for Treatment of Lung Cancer Caused by Genetic Mutations. *Parana Journal of Science and Education (PJSE)*. 9: 616-653.
547. Heidari A, Locci E, Raymond S. 2021. Diagnosis and Detection of Skin Cancer Using Miniature Biosensors and Biomarkers. *Parana Journal of Science and Education (PJSE)*. 9: 654-691.
548. Heidari A, Locci E, Raymond S. 2021. Drug Reduces Tumor Size and Promises to Improve and Increase Survival in Patients with Lung Tumors Caused by Specific DNA Mutations. *Parana Journal of Science and Education (PJSE)*. 9: 692-729.
549. Heidari A, Locci E, Raymond S. 2021. Performing Breast Surgery to Treat Cancer Using Differential Diagnoses, such as Magnetic Resonance Imaging (MRI). *Parana Journal of Science and Education (PJSE)*. 9: 730-767.
550. Heidari A, Locci E, Raymond S. 2021. Engineering T Cells and Creating Engineering Design Criteria to Mechanically Optimize Cells. *Parana Journal of Science and Education (PJSE)*. 9: 768-805.
551. Heidari A, Locci E, Raymond S. 2021. Introducing Cryoablation as a Solution for Elimination of Breast Tumors under Synchrotron and Synchrocyclotron Radiations without Surgery. *Parana Journal of Science and Education (PJSE)*. 9: 806-844.



Removing the Breast from the Body, Cryoectomy or Cryopreservation of Tumors Preserve Breast Size, Reduce the Risk of Infection and Prevent Scarring

DOI: <https://doi.org/10.36811/ojrmi.2021.110034> OJRM: December-2021: Page No: 584-625

552. Heidari A, Locci E, Raymond S. 2021. Effect of Coronavirus on Exacerbation of Lung Cancer. *Parana Journal of Science and Education (PJSE)*. 9: 845-883.
553. Heidari A, Locci E, Raymond S. 2021. Diagnosing Leukemia Using Peripheral Blood Morphology, Biopsy or Bone Marrow Sampling, Flow Cytometry and Genetic Testing. *Parana Journal of Science and Education (PJSE)*. 9: 884-921.
554. Heidari A, Locci E, Raymond S. 2021. Mechanism and Clinical Role and Application of DNA Methyltransferase Inhibitors Combination Therapy for the Treatment of Solid Tumor. *J Chem Appl*. 1: 473-513.
555. Heidari A, Locci E, Raymond S. 2021. Differential Diagnosis of Benign and Malignant Breast Masses Using Diffusion-Weighted Magnetic Resonance Imaging (MRI). *J Chem Appl*. 1: 514-552.
556. Heidari A, Locci E, Raymond S. 2021. Engineering T-Cell Activation for Immunotherapy by Mechanical Forces. *J Chem Appl*. 1: 553-591.
557. Heidari A, Locci E, Raymond S. 2021. Cryoablation and Cryolocalization in the Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management of Breast Cancer. *J Chem Appl*. 1: 592-633.
558. Heidari A, Locci E, Raymond S. 2021. Impact of COVID-19 Pandemic on Lung Cancer Treatment Scheduling. *J Chem Appl*. 1: 634-673.
559. Heidari A, Locci E, Raymond S. 2021. A Comparison of Flow Cytometry, Bone Marrow Biopsy and Bone Marrow Aspirates in the Detection of Lymphoid Infiltration in T Cell Disorders. *J Chem Appl*. 1: 674-714.
560. Heidari A, Locci E, Raymond S. 2021. T Cell Engineering as Therapy for Cancer and HIV. *J Chem Appl*. 1: 715-752.
561. Heidari A, Locci E, Raymond S. 2021. A Proposition for a Cancer Treatment Study Using Radioactive Metal Co-Factor Enzymes and Inhibitors of Lipogenic Enzymes as a Potential Therapy against Cancer. *J Chem Appl*. 1: 753-793.
562. Heidari A, Locci E, Raymond S. 2021. Screening for Lung Cancer with Low Dose Computed Tomography (LDCT). *J Chem Appl*. 1: 794-832.
563. Heidari A, Locci E, Raymond S. 2021. Therapeutic Potential of Pharmacological Targeting NLRP3 Inflammasome Complex in Cancer Using Inhibition of NLRP3 Inflammasome in Tumor Microenvironment Leads to Suppression of Metastatic Potential of Cancer Cells. *J Chem Appl*. 1: 833-873.
564. Heidari A, Locci E, Raymond S. 2021. Treatment of Various Cancers with T Cells Engineering. *Parana Journal of Science and Education (PJSE)*. 10: 1-38.
565. Heidari A, Locci E, Raymond S. 2021. Enzymatic Study Prevents the Growth of Cancer Cells. *Parana Journal of Science and Education (PJSE)*. 10: 39-76.
566. Heidari A, Locci E, Raymond S. 2021. Study and Propose Novel Methods and Techniques for Prevention, Prognosis, Diagnosis, Imaging, Screening, Treatment and Management of Lung Cancer. *Parana Journal of Science and Education (PJSE)*. 10: 77-115.
567. Heidari A, Locci E, Raymond S. 2021. Introducing an Intracellular Complex to Treat Melanoma and Other Cancers by Inhibiting NLRP3. *Parana Journal of Science and Education (PJSE)*. 10: 116-153.