

CURRICULUM VITAE

First name: Raluca-Oana

Surname: Dumache

Education:

1994-1998: “Constantin Diaconovici Loga” National High-school, Timișoara

1998-2004: “Victor Babeș” Medicine and Pharmacy University, Timișoara

2005-present : Assistant Professor–Biochemistry Department, University of Medicine and Pharmacy ”Victor Babeș”, Timisoara, Romania

2005-2010: Internship – Clinical Laboratory

2010: Medical Doctor – Clinical Laboratory

2010: PhD in Medical Sciences, with PhD Title: “New Tumoral Biomarkers in Diagnosis, Prognosis and Therapeutic Approach in Prostate Cancer Patients”.

2010-2012: Master Degree in Molecular Biology and Biotechnology, University of Medicine and Pharmacy ‘Victor Babes’, Timisoara

2011: Winner of 2011 Balkan Award for Clinical Laboratory Research.

19th Balkan Congress of Laboratory Federation, Bucharest, 21st-23rd September, 2011

2013: Associate Editor at : Medical Case Reports, Bioinfo Publishing,India

Member of Professional Associations:

1. American Association of Clinical Chemistry
2. American Society for Human Genetics
3. The European Society for Clinical Nutrition and Metabolism
4. European Society of Gene and Cell Therapy
5. European Society of Human Genetics
6. European Society for Clinical Investigation
7. European Society of Medical Oncology
8. The Romanian Society of Medical Genetics
9. The Romanian Society of Biochemistry and Molecular Biology

10. The Romanian Society of Laboratory Medicine

Foreign Languages:

English – Advanced level

German – Advanced level

Member of National Programs and Projects:

(Name of the Project):

1. The Expertise Centre for Biomarkers Determination in Degenerative Diseases (Cancer, Diabetes, Cardiovascular Diseases).

Financing Contract with ANCS nr.98/cp/I/14.09.2007

Project Period: 2007/2008

Project Manager: Prof. Univ. Anghel Andrei

2. Management in the Optimization of Children with LAL by Using Molecular Cytogenetic Techniques (fluorescence in situ hybridization-FISH) in the Evaluation Protocol.

Financing Contract: CNCSIS-A- 1099

Project Period: 2007/2008

Project Manager: Prof. Univ. Dr. Puiu Maria

3. Correlation of Clinic, Genetic and Epigenetic Aspects for Etiology of Understanding Prader-Willi and Angelman Genomic Diseases: Multidisciplinary Approach Model of Rare Diseases in Romania.

Project Period: 1.10.2008-1.10-2011

Project Manager: Prof. Univ. Dr: Puiu Maria

Abstracts Published at National and International Conferences in 2007:

1. The Role of PSA Screening in the Early Detection of Prostate Cancer. F.Miclea, A.Cumpanaş, R.Dumache, Anghel A, Motoc M, Kaycsa A. The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, Timișoara, September 6-8, 2007
2. Is Screening of Thyroid Peroxidase Auto Antibodies necessary during Pregnancy? Dana Liana David, Daniela Grecu, Diana Bontę, Raluca Dumache, N. Hrubaru, A.Anghel. The Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology, Timișoara, September 6-8, 2007

Abstracts Published at International Conferences in 2008:

- 1 Carbohydrate-deficient Transferring and Gamma- Glutamyl Transpeptidase - Markers of Excessive Alcohol Consumption. Daniela Ionescu, Bogdan Bumbăcilă, Carmen Cristescu, Raluca Dumache., Elena Galca, The Academic Days of Arad, 8th Edition, 16-18 May 2008, Arad
- 2 Overexpression of CD 24 Gene in Patients with Prostate Cancer. Dumache R, Bumbăcilă B, Puiu M, Miclea F. The Annual Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29-31 May, 2008
- 3 α -methylacyl Coenzyme-A Racemase (AMACR): A New Biomarker for the Early Detection of Prostate Cancer. Dumache R, Bumbăcilă B, Kaycsa A, Dehelean C, Miclea F, Puiu M. The Annual Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 -31 May, 2008
- 4 The Accuracy of the GC-MS Determination of Capsaicin in Rat Blood Samples Using Two Different Derivatization Samples. Bumbăcilă B, Canciu C, Kaycsa A, Dumache R. The Annual Conference of the Romanian Society of Biochemistry and Molecular Biology, Bucharest, 29 -31 May, 2008
- 5 Aspects of Palliative Care in Rare Diseases. Maria Puiu, Dorica Dan, Estera Boeriu, Raluca Dumache. Regional Conference of Palliative Care for Children, București, 23-24 May 2008
- 6 Osteogenesis Imperfecta, Model of Interdisciplinary and National Approach of a Rare Disease. M.Puiu, C.Badiu, Gh.Burnei, D.Dan, C.Jinca, R.Dumache, M.Șerban. The XXth International Symposium on Morphological Sciences, September 12-16, 2008, Timișoara, Romania

- 7 Gene Expression Determination for α -methyl-acyl Co-enzyme A racemes (AMACR) in Patients Diagnosed with Prostate Cancer. Dumache R, Miclea F, Bumbăcilă B, Puiu M. The 4th Conference of the Romanian Society of Medical Genetics, 18-20 September 2008, Craiova
- 8 Lack of Response Causes for Treatment in the case of Stiffman/Stiffperson Syndrome. M.Puiu, M.Pop, M.Simu, R.Dumache. The 4th Conference of the Romanian Society of Medical Genetics, 18-20 September 2008, Craiova
- 9 Management Optimisation in Osteogenesis Imperfecta (OI). Maria Puiu, C.Badiu, L.Carasava, Ghe.Bunei, ES Boia, R.Dumache. The 4th Conference of the Romanian Society of Medical Genetics, 18-20 September 2008, Craiova
- 10 Epigenetic Markers for Molecular Detection of Prostate Cancer. Dumache R, Serban C, Puiu M. The National Conference of Laboratory Medicine, 20-22 October 2008, Bucharest
- 11 New Promises of Biomarkers in Cancer Detection. Dumache R, Puiu M. The 7th National Convention of Laboratory Medicine, with International Participation, 20-22 October 2008, Bucharest
- 12 Molecular Diagnosis in Prostate Cancer. Raluca Dumache, Maria Puiu, Corina Şerban, Florin Miclea. The National Conference of Public Health with International Participation: Present and Future in Public Health in Romania, 12 -14 November, Timișoara, 2008
- 13 Lycopene Role in Prostate Cancer Prevention. Raluca Dumache, Carmen Canciu, Daniela Ionescu. The National Conference of Public Health with International Participation: Present and Future in Public Health in Romania, 12 -14 November, Timișoara, 2008
- 14 Clinical and Genetic Considerations in Prader-Willi / Angelman Syndromes. Maria Puiu, Dorica Dan, Raluca Dumache, Gabriela Anton, Natalia Cucu. National Conference of Public Health with International Participation: Present and Future in Public Health in Romania, 12th -14th of November, Timișoara, 2008
- 15 Non-Invasive Evaluation of Endothelial Function in Arterial Hypertension. Corina Şerban, Germaine Săvoiu, Lelia Şusan, Alina Păcurari, A.Carabă, Anca Tudor, Raluca Dumache, Ioan Romoşan, A.Cristescu. Annals of National Society of Cellular Biology, volume XIII, 2008, ISSN 1583-6258,

Abstracts Published at International Conferences in 2009:

1. Biomarkers and their Role in Cancer Detection. Dumache R, Duncescu C, Canciu C, Puiu M. 1st Eastern European Conference on PWS "Multidisciplinary Approach in the Management of PWS", Timisoara, 24-25 April 2009
2. A Case with Prader-Willi Syndrome: is Growth Hormone Therapy a Good Choice? Duncescu C, Canciu C, Dumache R, Micle I, Marazan M, Pop E, Giurescu R, Daescu C, Emandi-Chirita A. 1st Eastern European Conference on PWS, "Multidisciplinary Approach in the Management of PWS", Timisoara, 24-25 April 2009
3. GSTP1 Hypermethylation, a Biomarker in the Molecular Diagnosis of Prostate Cancer. Dumache R, Puiu M, Bumbăcilă B, Anton G, Cucu N. 1st Congress of Laboratory Medicine with International Participation, 25-27 June 2009, Targu Mures
4. Detection of CD24 Gene in Prostate Cancer Tissue Samples. Dumache R, Puiu M, Kaycsa A, Serban C, Anton G. 1st Congress of Laboratory Medicine with International Participation, 25-27 June 2009, Targu Mures
5. Prostate cancer antigen 3(PCA3), a Promising Biomarker in Prostate Cancer Detection. Dumache R, Kaycsa A, Canciu C, Puiu M. Annual International Conference of Romanian Society of Biochemistry and Molecular Biology. 30th-3rd October, 2009, Cluj-Napoca

Abstracts Published at International Conferences in 2008

1. In vivo RP-HPLC-ESI-MS Determination of Mevinolinic Acid Levels on Rat Plasma After the Administration of Pure Lovastatin and Hydroxypropyl Beta Cyclodextrin-Lovastatin Complex. Bogdan Bumbăcilă, Cristina Drăgaescu, Cristina Dehelean, Raluca Dumache, Adriana Kaycsa, Alina Florina Șerb. The 56th Annual Conference of Mass Spectrometry, Tsukuba, Japan, May 2008;
2. Cisplatin Inhibits in vivo Mouse Telomerase Activity in Melanoma Squamous Cells. B. Bumbăcilă, R. Dumache, C. Dehelean, D. Ionescu, A. Kaycsa. European Conference of Human Genetics, Barcelona, 31 May-3 June, 2008;

3. α -methylacyl Co-A Racemase(AMACR), a Novel Specific Biomarker for Prostate Cancer. R.Dumache, B.Bumbăcilă, F.Miclea, M.Puiu. European Conference of Human Genetics, Barcelona, 31 May-3 June 2008
4. Prognostic Role and Clinical Significance of Minimal Residual Disease in Acute Lymphoblastic Leukaemia of Childhood. Dumache R, Șerban M, Puiu M. 4th Santorini Conference Biologie Perspective ‘Functional Genomics Towards Personalized Health Care’, 21-23 September 2008, Santorini, Greece
5. A New Biomarker in Molecular Medicine, for the Early Detection of Prostate Cancer. Dumache R, Motoc M, Puiu M. 4th Santorini Conference Biologie Perspective ‘Functional Genomics Towards Personalized Health Care’, 21-23 September 2008, Santorini, Greece

Abstracts Published at International Conferences in 2009:

1. Nutrition and Implications of Biomarkers in Cancer Prevention. Dumache R, Puiu M, Canciu C, Serban C, Bumbăcilă B. 11th Regional Conference on Environment and Health. 15-16 May, 2009, Szeged
2. The Promise of Glutathione S-transferase P1 (GSTP1) Gene, as a New Biomarker in the Early Diagnosis of Prostate Cancer. Dumache R, Bumbăcilă B, Puiu M. 11th Regional Conference on Environment and Health. 15-16 May, 2009, Szeged
3. Epigenetic Biomarker for the Early Diagnosis of Prostate Cancer. Dumache R, Puiu M, Bumbăcilă B, Anton G, Cucu N. European Conference on Human Genetics, Viena, 23-26 May, 2009
4. DNA Methylation of GSTP1, a Promising Biomarker in the Early Detection of Prostate Cancer. Dumache Raluca, Puiu Maria, Canciu Carmen, Cucu Natalia. 46th Congress of the European Societies of Toxicology, EuroTox 2009, September 13-16, 2009, Dresden, Germany, Toxicology Letters
5. Promoter Hypermethylation of Gene p16, a Biomarker for Early Detection of Gastric Cancer. Dumache R, Puiu M, Bumbăcilă Bogdan, Cucu N. 21-25 November, UEGW/WCOG, London, 2009
6. New Biomarker in the Molecular Diagnosis of Prostate Cancer. Dumache R, Puiu M, Canciu Carmen, Bumbăcilă B, Cucu N. Austro-Hungarian Pathology Congress, Sopron, Hungary, 1-3 October 2009

7. Detection of Alpha-methylacyl CoA-Racemase Gene in Prostate Cancer Patients. Dumache R, Puiu M, Kaycsa A, Anton G, Austro-Hungarian Pathology Congress , Sopron, Hungary 1-3 October 2009
8. GSTP1 Hypermethylation, as a Biomarker in the Diagnosis of Prostatic Cancer. Dumache R, Puiu J.M, Bumbăcilă B, Cucu N. 2nd European Multidisciplinary Meeting on Urological Cancers, 27-29 November 2009, Barcelona, Spain

Articles Published as full papers in 2008

1. Prostate-Specific Antigen (PSA) a Biomarker of Neoplastic Prostatic Disease Dumache R, Motoc M, Ionescu D, Bumbăcilă B, Puiu M. International Conference of Cellular and Tissue Comparative Pathology, 3rd- 5th July 2008, Cluj-Napoca,
2. Correlation between α -methylacyl CoA-Racemase (AMACR) and Prostate-specific Antigen (PSA) Levels in Blood Samples of Prostate Cancer Patients. Dumache R, Miclea F, Bumbăcilă B, Puiu M. International Conference of Cellular and Tissue Comparative Pathology, 3rd- 5th July 2008, Cluj-Napoca,Romania
3. Molecular Detection of Prostate Cancer by GSTP1 Hypermethylation. Dumache R, Puiu M. National Symposium “Pharmacy Today, between Promotion and Research”, 24-26 September 2008, Timișoara
4. Challenges of Biotechnology in Medicine. Dumache R, Canciu C, Șerban C, Puiu M. National Symposium “Pharmacy Today, between Promotion and Research”, 24-26 September 2008, Timișoara
5. Genomics and the Era of Cancer Drug Development. Dumache R, Puiu M. National Symposium “Pharmacy Today, between Promotion and Research”, 24-26 September 2008, Timișoara
6. Rare Diseases and Orphan Medicines. Puiu M, Gafencu M, Dumitru R, Dan D, Dumache R. National Symposium “Pharmacy Today, between Promotion and Research”, 24-26 September 2008, Timișoara.
7. Pharmacogenetics, the Genome Study and the Medicines Development. Maria Puiu, Raluca Dumache.

8. Comparative Study of Venlafaxine and Paroxetine for Therapy of Patients with Anxiety Disorder. Ionescu D, S.Funar-Timoftei, Cristescu C, Voicu M, Gâlca E, Bumbăcilă B, Dumache R. National Symposium “Pharmacy Today, between Promotion and Research”, 24-26 September 2008, Timișoara
9. Unspecific Meningoencephalitis in AIDS Patients Identification of the Pathogenic Germ and Establishment of the Therapeutic Regimen. Bumbăcilă B, Gurban C, Sfrijan F, Duda-Seiman D, Dumache R, Ionescu D. National Symposium “Pharmacy Today, between Promotion and Research”, 24-26 September 2008, Timișoara
10. Dermal Effects of Sodium lauryl sulfate and Sodium lauryl sulfate and betulinic acid mixture in Ointments applied to the Rat Skin. Bumbăcilă B, Cristina A. Dehelean, Codruța Șoica, Dumache Raluca. International Conference of Cellular and Tissue Comparative Pathology, 3rd- 5th July 2008, Cluj-Napoca
11. Improvements in the Management of ALL in children, a condition to increase the curability level of the disease. Maria Puiu, Șerban M, Dumache Raluca. International Conference of Cellular and Tissue Comparative Pathology, 3rd- 5th July 2008, Cluj-Napoca
12. Correlation of Clinical, Genetic and Epigenetic aspects implicated in the Etiology of Prader-Willi/Angelman Syndromes: Model of Multidisciplinary Approach of Rare Diseases in Romania. Maria Puiu, Cucu N, Dan D, Dumache R. International Conference of Cellular and Tissue Comparative Pathology, 3rd- 5th July 2008, Cluj-Napoca
13. Carbohydrate deficient transferin and gamma glutamyl-transpeptidase markers of Excessive Alcohol Consumption. Daniela Ionescu, Bogdan Bumbăcilă, Corina Șerban, Carmen Cristescu, Raluca Dumache, Elena Gâlcă, Maria Puiu. Romanian Journal of Biophysics, nr.4/2008

Articles Published as full papers in 2009

1. Challenges and Promises of Pharmacogenetics in Cancer Therapeutics. Dumache R, Popovici M, Bumbăcilă B, Puiu M. The 10th International Congress of Pharmacology, Therapeutics and Clinical Toxicology, Sinaia, 9-11 June, 2009
2. Roles of glutathione S-transferase P (GSTP1) Gene, in Prostate Cancer Detection. Dumache R, Miclea F, Bumbăcilă B, Puiu M. The Paediatrician Journal, vol.XII, nr.47-48, July – December 2009
3. Dermal Effects of Sodium lauryl sulfate and Sodium lauryl sulfate and Betulinic acid mixture in Ointments Applied to the Rat skin. Bumbăcilă B, Cristina A. Dehelean, Codruța Șoica, Dumache Raluca. The Romanian Journal of Veterinary Medicine, nr.1/2009

Abstracts Published at National and International Conferences in 2010:

1. Hypermethylation of Glutathione-S Transferase P1 (GSTP1) an Epigenetic Biomarker in Incipient Diagnosis of Prostate Neoplasm. Dumache Raluca, F.Miclea, B.Bumbăcilă, R.Minciu, A.Cumpanaș. The 26th National Congress of Urology, Rom Uro, 5-8 May, 2010, București
2. Pharmacogenetics: Genetic basis for Personalized Drug Therapy. Raluca Dumache, Victor Dumitrascu, Bogdan Bumbăcilă, Maria Puiu. 11th International Congress of Clinical Pharmacology, Therapeutics and Toxicology, 8-11 June, 2010, Oradea
3. Ionescu Daniela, Dumache Raluca, Dehelean Cristina, Puiu Maria, Gâlca Elena, Serafim Angela. The 5th Conference of the Association of Medical Laboratories from Romania with international participation, 16-19 June, 2010, Mamaia
4. The Importance of Hypermethylation of Island CpG GSTP1 a New Epigenetic Biomarker in Prostate Cancer Screening. Dumache Raluca, Puiu Maria, Ionescu Daniela, Kaycsa Adriana, Minciu Radu. The 5th Conference of the Association of Medical Laboratories from Romania with international participation, 16-19 June, 2010, Mamaia

5. The Predictive Value of PCA3 Gene in Molecular Diagnosis of Prostate Cancer. Dumache Raluca, Puiu Maria, Bumbăcilă Bogdan, Miclea Dragos, Miclea Florin. The 5th Conference of the Association of Medical Laboratories from Romania with international participation, 16-19 June, 2010, Mamaia
6. Aspects of Molecular Genetics in Prostate Cancer. Dumache R, Miclea F, David D, Kaycsa A, Negru S, Ionescu D, Puiu M. The 3rd Congress of Medical Genetics with International Participation, Timisoara, 22-25 September 2010
7. Early Detection of Prostate Cancer from Body Fluids Using DNA Promoter Methylation. Dumache R, Puiu M, Minciu R, Negru S, Bumbăcilă B. The First Symposium of Medical Biochemistry and Molecular Medicine with International Participation, Iasi, 7-9 October 2010
8. An Assessment of Efficacy and Tolerability of Therapy with Risperidone vs. Paroxetine in Panic Attacks. D. Ionescu, C.Dehelean, S.Ciurlea, C.Peev, R.Dumache, E.Galca. National Congress of Pharmacy in Romania, 14th edition, 13-16 October 2010, Targu Mures, Romania

Abstracts Published at International Conferences in 2010:

1. Role of GSTP1 hypermethylation in Prostate Cancer Detection. Dumache R, David Liana Dana, Daniela Ionescu, Adriana Kaycsa, Maria Puiu, Radu Minciu, Marilena Motoc. European Conference on Human Genetics, 12-15 June, 2010, Gothenborg, Sweden
2. The Efficacy and the Tolerability of Pregabalin in the Case of Adult Patients with Generalized Anxiety Disorders. D. Ionescu, C.Dehelean, S.Funar Timofte, S.Dragan, E.Galca, R.Dumache. XII International Congress of Toxicology, Barcelona, 19-23 July, 2010
3. Profile of Aberrant Promoter Methylation of GSTP1 Gene as a Biomarker in Prostate Cancer Detection. Raluca Dumache, S.Negru, R.Minciu, M.Popovici, D.Ionescu, M.Puiu. 38th Meeting of the International Society of Oncology and Biomarkers (ISOBM), 3rd-8th September, 2010, Munchen, Germany
4. Molecular Diagnostic of Bladder Cancer using a Panel of DNA Methylation Biomarkers. Raluca Dumache, S.Negru, F.Miclea, R.Minciu, B.Bumbăcilă, M.Puiu.

38th Meeting of the International Society of Oncology and Biomarkers (ISOBM), 3rd-8th September, 2010, Munchen, Germany

5. Promoter Hypermethylation of Tumour Suppressor Genes in Urine Sediment from Prostate Cancer Patients. Raluca Dumache, M.Puiu, R.Minciu, D.Sirbu, S.Negru, B.Bumbăcilă. 35th European Society of Medical Oncology (ESMO) Congress, Milan, 8-12 October, 2010

6. Usefulness of Non-invasive Biomarkers to Predict Prognosis in Bladder Cancer. Raluca Dumache, M.Puiu, F.Miclea, B.Bumbăcilă, D.Sirbu, S.Negru. 35th European Society of Medical Oncology (ESMO) Congress, Milan, 8-12 October, 2010

Articles Published as full papers in 2010

1. Applicability of Non-invasive Biomarkers in Prostate Cancer Diagnostic. Dumache Raluca, M.Puiu, B.Bumbăcilă, D.Miclea, F.Miclea. Maedica-A Journal of Clinical Medicine, nr.1/2010

2. Clinical Applications of Molecular Biomarkers in Prostate Cancer Detection. Dumache Raluca, F.Miclea, B.Bumbăcilă, Maria Puiu. The Medical and Surgical Journal (Iasi), nr.2/2010

3. The Importance of Clinical Application of Molecular Biomarkers in Bladder Cancer Detection. Dumache Raluca, M.Puiu, D.David, M.Popovici, A.Kaycsa, S.Negru, F.Miclea. Maedica-A Journal of Clinical Medicine, nr.2/2010

4. Early Detection of Prostate Cancer from Body Fluids using DNA Promoter Methylation. Dumache Raluca, Puiu M, Minciu R, Negru S, Bumbăcilă B. The Scientific Annals of "Al.I.Cuza" University, section: Genetics and Molecular Biology, nr.XI/2010

5. Non-Invasive Biomarkers in the Molecular Diagnostic of Prostate Cancer. Dumache Raluca, F.Miclea, David Dana, Kaycsa Adriana, Ionescu D, Puiu M. The Scientific Annals of "Al.I.Cuza" University, section: Genetics and Molecular Biology, nr.XI/2010

6. Evaluation of Plasma Oxidative Stress in the Case of Patients with Vitiligo and Nicotine-dependence. Daniela Ionescu, R.Dumache, C.Dehelean, M.Puiu, Tet Valer. The Scientific Annals of "Al.I.Cuza" University, section: Genetics and Molecular Biology, nr.XI/2010

Abstracts published at international conferences in 2011:

- 1 Molecular diagnostic of prostate cancer using a panel of DNA methylation biomarkers. Dumache R, David D, A.Kaycsa, S. Negru, B.Bumbăcilă, M.Puiu. IFCC-WorldLab-EuroMedLab Berlin 2011, 15th-17th May, Berlin ,2011
- 2 Detection of aberrant promoter hypermethylation of multiple genes in urine samples from kidney cancer patients. Dumache R, Puiu M, Negru S, Bumbăcilă B, Cucu N. IFCC-WorldLab-EuroMedLab Berlin 2011, 15th-17th May, Berlin ,2011
- 3 Predicting prostate cancer by detecting GSTP1 aberrant hypermethylation in serum DNA. Dumache R, Negru S, David D, Kaycsa A, Ionescu D, Puiu M. 11th Central European Meeting of the European Association of Urology, 28th-29th October, Timisoara, 2011
- 4 A comparative evaluation of therapy with Escitaloprom vs. Memantine in the case of patients with alcohol dependence and co-morbid major depressive disorder. D. Ionescu, C.Dehelean, S. Timoftei- Funar, R.Dumache. 47th Congress of the European Societies of Toxicology, Paris, 28th-31st August, 2011
- 5 Diagnostic role of GSTP1 CpG island hypermethylation detection in prostate cancer detection. Minciu R, Bumbăcilă B, Negru S, Tudor A, Cumpanas A, Puiu M, Dumache R. 31st Congress of The Societe Internationale D'Urologie, 16th-20th of October, Berlin, 2011

Articles published as full papers in 2011

- 1 Genetic and epigenetic biomarkers for the early detection, therapeutic effectiveness and relapse monitoring in bladder cancer. Dumache R, David D, Kaycsa A, Minciu R, Negru S, Puiu M. The Medical and Surgical Journal (Iasi), nr.1/2011
- 2 Minimally invasive prostate cancer diagnosis by glutathione S-transferase P1 (GSTP1) gene methylation analysis in serum samples. Dumache R, Dumitrascu V, Minciu R, David D, Tudor A, Bumbăcilă B, Puiu M. Timisoara Medical Journal, nr.3-4/2011
- 3 New tumoral biomarkers used in the diagnosis, prognosis and therapeutic approach in prostate cancer. Dumache R, Dumitrascu V, Negru S, Tudor A, Bumbăcilă B, Puiu M. Balkan Journal of Clinical Laboratory, nr.1/2011

Abstracts published at national and international conferences in 2012:

- 1 Molecular detection of prostate cancer from urinary sediments by quantitative pyrosequencing analysis. Dumache R, Negru S, Bucur A, Haivas C, Ionescu D, Minciu R, Bumbăcilă B. 17th World Congress on Advances in Oncology and 15th International Symposium on Molecular Medicine, 11-13 October, Hersonissos, Crete, Greece
- 2 Cell-free DNA, a novel noninvasive biomarker in prostate malignancy. Dumache R, Puiu M, Tudor A, Negru S, Popescu S, Boldura O, Bumbăcilă B. 48th Congress of the European Societies of Toxicology, Stockholm, 17th-20th June, 2012
- 3 Assessing the use of glutathione S-transferase P1 (GSTP1) promoter gene methylation in urine to detect prostate cancer. Dumache R, Puiu M, Popescu S, Bucur A, Tudor A, David D, Spengler G, Bumbăcilă B. 14th DKMT Euroregional Conference on Environment and Health. 18th-19th of May, Szeged, Hungary

Articles published as full papers in 2012:

- 1 Glutathione S-transferase P1 (GSTP1): Predictive biomarker for prostate - specific antigen (PSA) biochemical recurrence in prostate cancer men following radical prostatectomy. Dumache R, Puiu M, Malita I, Tudor A, Negru S, Bumbăcilă B. Fiziologia Journal, no.2/2012
- 2 Novel molecular biomarkers used in the noninvasive diagnosis and prognosis of prostate cancer. Dumache R, Puiu M, Minciu R, Bucur A, Negru S, Bumbăcilă B. Medicine in evolution, no.2/2012
- 3 Retinoic acid receptor $\beta 2$ (RAR $\beta 2$): Noninvasive biomarker for the distinguishing malignant versus benign prostate lesions from bodily fluids. Raluca Dumache, Maria Puiu, Radu Minciu, Razvan Bardan, Dana David, Anca Tudor, Bogdan Bumbacila. Surgery 107(6):780-784

Articles published in 2013:

1. Molecular detection of prostate cancer by methylation-specific polymerase chain reaction from urine specimens. Raluca Dumache, Sorina Popescu, Radu Minciu, Serban Negru, Maria Puiu. J Med Biochem 32: 1–5, 2013

Other mentions:

- 1. Francophone Summer School “Pathology and Molecular Pharmacology. Biotechnologies”** Organized under the patronage of The Romanian Academy and The Science Academy in Paris, 9-21 July 2007, Arad,
- 2. Postgraduate Course: “Modern Techniques of Biochemistry and Molecular Biology in the Clinical Laboratory”**, 15-17 May 2008, Timișoara
- 3. Summer School in Embryology and Embryonic Stem Cells**, 7-21 July 2008, Timișoara
- 4. Postgraduate Course: ADN Sequence Analysis Using Polymerase Chain Reaction (PCR) Method**, 29.09.2008-2.10.2008, Timișoara
- 5. Postgraduate Course: Biomarkers in Clinical Laboratory: Applications in Predisposition, Diagnosis, Prognosis and Therapeutic Orientation.** 2nd-4th of October, 2008, Timișoara.
- 6. Postgraduate Course: The Role of Medical Corps in the Implementation of the National Plan of Rare Diseases**, 1-21 December 2008, Timișoara
- 7. Postgraduate Course "New Concepts in Investigations of Clinical Laboratory”** 14-16 May 2009, Timișoara
- 8. Postgraduate Course: The Integration of New Analytic Methodologies in Current Practice of Clinical Laboratory”** .1st -3rd of October, 2009, Timișoara
- 9. Postgraduate Course: Interdiscilpinary Approach of Rare Genetic Diseases.** Timișoara, 20-22 September, 2010