MILJANA TANIĆ

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EDUCATION

Oct 2009 – Oct 2012	***PhD in Molecular Biosciences***, Faculty of Medicine, Universidad Autónoma de Madrid
Oct 2008 – June 2009	***MSc in Molecular and Cell Biology***, Faculty of Sciences, Universidad Autónoma de Madrid
Sep 2003 – Jun 2008	***Diploma in Molecular Biology and Physiology*** *(MSc equivalent),* Major in Genetic engineering and biotechnology, Faculty of Biology, University of Belgrade

POSITIONS

Sept 2025 – present	*Principal Research Fellow (Full Research Professor),* Laboratory for Molecular Genetics, Experimental Oncology Department, **Institute for Oncology and Radiology of Serbia (IORS)**, Belgrade, Serbia.
Apr 2025 – present	*Senior Honorary Research Fellow,* Medical Genomics group, **UCL Cancer Institute**, **University College London**, London, UK.
Jan 2019 – Aug 2025	*Research Associate Professor,* Laboratory for Molecular Genetics, Experimental Oncology Department, **Institute for Oncology and Radiology of Serbia (IORS)**, Belgrade, Serbia.
Jun 2024- present	*Chief Executive Officer*, co-founder of startup company, **PuppyPrint Genomics d.o.o**, Belgrade, Serbia.
Jun 2019 - 2025	*Honorary Research Fellow,* Medical Genomics group, **UCL Cancer Institute**, **University College London**, London, UK.
Feb 2017	V*isiting scientist*, Department of Molecular Medicine (MOMA), **Aarhus University hospital**, Denmark. Group leader: Dr. Claus Lindbjerg Andersen
Feb 2015 – Dec 2018	*MSCA Postdoctoral Research Fellow,* Medical Genomics group, **UCL Cancer Institute**, **University College London**, London, UK. Group leader: Prof. Stephan Beck
Dec 2012 - Feb 2015	*Postdoctoral Research Associate,* Laboratory for Molecular Genetics, Experimental Oncology Department, **Institute for Oncology and Radiology of Serbia (IORS)**, Belgrade, Serbia. Group leader: Dr. Radmila Janković
Jun – Sep 2011	*Visiting scientist – PT Research Associate*, Herbert Irving Comprehensive Cancer Center, **Institute for Cancer Genetics, Columbia University**, NY, USA. Supervisor: Dr. Jose M. Silva
Oct 2008 – Nov 2012	*PhD Student,* Human Genetic Laboratory, Human Cancer Genetics Department, **Spanish National Cancer Research Centre (CNIO)**, Madrid, Spain. Supervisors: Dr. Javier Benitez and Dr. Beatriz Martinez-Delgado
Apr – May 2008	*Student research assistant,* Laboratory for Industrial Microbiology, **Institute for Molecular Genetics and Genetic Engineering (IMGGE)**, Belgrade, Serbia. Supervisor: Dr. Djordje Fira
Nov 2007 – Jan 2008	*Student research assistant*, PCR Centre, Faculty of Biology, **University of Belgrade**, Serbia. Supervisor: Prof. Stanka Romac
July – Sep 2007	*Summer laboratory training*, Human Cancer Genetics Laboratory, **Spanish National Cancer Research Centre (CNIO)**, Madrid, Spain. Supervisor: Dr. Gloria Ribas
Career breaks:	**Maternity leave** *(*Mar 2020 – Oct 2020), **maternity leave** (Aug 2017 – Sep 2018)

AWARDS & FELLOWSHIPS

2015	MSCA COFUND Fellowship, Horizon 2020 (WHRI-ACADEMY-317-TAMSEC)
2014	IARC/WHO Summer School in Epidemiology Travel Award
2014	American Association for Cancer Research (AACR) – WICR Scholar-in-Training Award
2013	L'Oreal/UNESCO-Serbia for Women in Science - National Fellowship
2013	38th FEBS Congress Travel Award
2011	European Association for Cancer Research (EACR) Travel Award
2011	La Caixa/CNIO Short-Term Stay Fellowship
2008	La Caixa/CNIO International PhD Fellowship
2008 / 2009	Young Talents Fellowship, Ministry of Youth and Sport, Republic of Serbia
2007	Serbian business-club 'Privrednik'- Hemofarm Pharmaceuticals Scholarship (merit-based)
2007	CNIO Summer Student Fellowship, Madrid, Spain
2006 / 2007	City of Belgrade Scholarship (merit-based)
2004/.../2008	Scholarship from the Ministry of Education, Republic of Serbia (merit-based)

PROJECTS

Leadership roles

2024-2025	PDG - Personal Dog Genome, Serbian Inovation Fund | *Principal investigator* | 50 K EUR
2022-2025	STEPUPIORS, Horizon Europe Twinning program | *WP1 leader* **|** 1.5 M EUR | PI: Milena Cavic
2020-2023	TRACEPIGEN, Science Fund of the R. Serbia PROMIS call | *Principal Investigator*, 200 K EUR
2018-2022	TRANSCOLONCAN, COST Action | *Science communication lead* | PI : Sergi Calstelvi-Bel

2015-2018	TAMSEC, Horizon 2020, MSCA COFUND (WHRI-ACADEMY-317) | *Fellow* | 65,083.2 GBP

Co-investigator

2017-2018	Methylation specific capture and analysis of ctDNA, Agilent Technologies Inc.| PI: Stephan Beck
2016-2017	Towards A Comprehensive Understanding Of Tumour Heterogeneity. BRC, UK, | PI: Stephan Beck
2013-2018	NOCRC: Novel CRC Screening Tools Improve Survival and Cost-effectiveness (1309-00006B), Danish Council for Strategic Research | PI: Claus L. Andersen
2011-2019	Pharmacodynamic and pharmacogenetic investigation of new drugs for solid tumors | Serbian Ministry of Science, PI: Sinisa Radulovic (# 41026)
2011 - 2014	Fondo Investigaciones Sanitarias, FIS 2011, PI11/01059, Spain, PI: Beatriz Martínez-Delgado
2011 - 2012	The role of miRNA in hereditary breast cancer | Fundación Mutua Madrileña, PI: Beatriz Martínez Delgado
2011 - 2012	miRNAs as diagnostic biomarkers in blood and serum | Fundación Sandra Ibarra,; PI: Beatriz Martínez Delgado

TEACHING & MENTORSHIP

- Faculty of Medicine, MSc in Biostatistics University of Belgrade: teaching *Bioinformatics and AI in Medicine* (2024, 2025)
- Faculty of Biology, University of Belgrade; teaching 2 classes (*Microarrays* and *NGS*) for Experimental Oncology module (2021, 2024) and *Epigenomics methods* (May 2023) for the Genomics module of the of the PhD programme
- UCL Cancer Institute, MSc in Cancer, Bioinformatics module, 4 classes: *Genomic Databases and Tools*, I*ntroduction to NGS & microarrays*, *Cancer Genome databases & browsers*, *Functional Genomics* (October 2016)
- Mentorship of PhD students: Katarina Zivic (2020 -, IORS), Isidora Pantovic (2023 –, IORS), Andrej Zecevic (2023 -)
- Mentorship of MSc students: Oluwadunni Emiloju (2016, UCL), Katarina Zivic (2020, IORS), Isidora Pantovic (2023, IORS)
- Supervising visiting students: Hannah Parker (October - December 2015, UCL), Neda Andrejic (Feb. – May 2013, IORS)

PUBLIC OUTREACH ACTIVITIES

Popular science lecture at **EU Researcher's Night 2022** on "Liquid biopsies: *Threasure throve for cancer research*" at the gallery of the Serbian Academy of Science and Art.| **Popular science lecture** at "Zikica Damjanovic" technical **high-school** in Smederevska Palanka.| **Interview** for a **scientific podcast** "Really good talk" ("Bas dobra prica") in 2022 discussing what is like to work in science and research in oncology. | **Joint action** with L'Oreal to visit **SOS Children's village** in Sremska Kamenica, in 2013 where we talked about science and education to inspire a vulnerable group of young girls. | **Interview** for a women's magazine "Beauty & Health" (Lepota & Zdravlje) with the aim of promoting women in STEM. | **Spokesperson** of the **communications committee** for the COST action TRANSCOLONCAN writing content for social networks.

COMMISSIONS OF TRUST

Special working group member for the preparation of *Bylaw on Genetic Registry* formed by the Ministry of Health of R. Serbia (2024) | **Project expert evaluator** (EU Horizon MSCA-PF 2024, UCL intramural grants 2022, Polish Science Fund 2023) **| Guest editor** *Frontiers in Genetics* (2022), Journal of Clinical Medicine (2024) | **Reviewer** for *Nature Communications*, *Nucleic Acid Research*, *Mathematics*, *Epigenetics*, *BMC Bioinformatics*, *BMC Cancer*, *Tumour Biology, Cancer Management and Research*, *Nova Publishers*. | **Scientific committee** member at the IORS since 2019 | **Scientific organisation board member** for SDIR-5 (2021), SDIR6 (2023) and SDIR-7(2025) conference | **Science communication committee spokesperson** for the COST action TRANSCOLONCAN (2021-2022) | **Organizing committee** member of a *Workshop on liquid biopsies* at Aarhus, Denmark (2022), 5th SDIR conference (2021). | **Lab representative** for institutional meetings at UCL Cancer Institute (2015-2017)

MEMBERSHIPS IN SCIENTIFIC SOCIETIES

European Association for Cancer Research (EACR), Young Investigator, EACR Ambassador, since 2009 | **American Association for Cancer Research (AACR)**, Associate Member, since 2012 | **Federation of the Societies of Biochemistry and Molecular Biology (FEBS)**, Full member, since 2013 | **American Society for Clinical Oncology (ASCO)**, Member in Training, since 2014 | **Serbian Genetics Society (DGS)**, member since 2012 | **Serbian Bioinformatics Society**, member since 2019

LANGUAGES

Serbian (mother tongue), **Croatian**, **Bosnian**, **Montenegrin** (mutually intelligible languages) | **English** (Proficient/Bilingual), Certificate of Proficiency in English (C2) | **Spanish** (Fluent), Diploma de Español como Lengua Extranjera (C1) | **French** (Advanced) – 12 years of primary and high-school education

SELECTED PUBLICATIONS

1. Francisco Gimeno-Valiente*, Carla Castignani,*, …, TRACERx Consortium, Stephan Beck$, Jonas Demeulemeester$, **Miljana Tanic$**, Charles Swanton$, Peter Van Loo$,#, Nnennaya Kanu,$,#. DNA methylation co-operates with genomic alterations during non-small cell lung cancer evolution. ***Nature Genetics*** *57, 2226–2237 (2025). https://doi.org/10.1038/s41588-025-02307-x $**These senior authors jointly supervised the study.***
2. **Tanić M***, Moghul I, Rodney S, Dhami P, Vaikkinen H, Ambrose J, Barrett J, Feber A, Beck S*. Comparison and imputation-aided integration of five commercial platforms for targeted DNA methylome analysis. ***Nature Biotechnology*** 40, 1478–1487 (2022) https://doi.org/10.1038/s41587-022-01336-9 *Corresponding author
3. Martínez-Ruiz C; Black JRM; …; **Tanić M**; Watkins TBK; Lim E; Al-Rashed AM; Lang D; Clements J; Cook DE; Rosenthal R; Wilson GA; Frankell AM; de Carné Trécesson S; East P; Kanu N; Litchfield K; Birkbak NJ; Hackshaw A; Beck S; Van Loo P; Jamal-Hanjani M; TRACERx Consortium; Swanton C; McGranahan N. Genomic-transcriptomic evolution in lung cancer and metastasis. ***Nature*** 2022
4. **Tanić M**. Chapter Twenty-Nine: Epigenome-wide association study (EWAS): Methods and applications. ***Academic Press,*** *Elsevier*. *Epigenetics Methods*, *Volume 19 in Translational Epigenetics Trygve O. Tollefsbol (Ed.)*. 2020, Pages 591-613

5. Rosenthal R, Cadieux EL, Salgado R, Bakir MA, Moore DA, Hiley CT, Lund T, **Tanić M**, Reading JL, Joshi K, Henry JY, Ghorani E, Wilson GA, Birkbak NJ, Jamal-Hanjani M, Veeriah S, Szallasi Z, Loi S, Hellmann MD, Feber A, Chain B, Herrero J, Quezada SA, Demeulemeester J, Van Loo P, Beck S, McGranahan N, Swanton C; TRACERx consortium. Neoantigen-directed immune escape in lung cancer evolution ***Nature***. 2019 Mar;567(7749):479-485. doi: 0.038/s4586-09-032-7.
6. **Tanić M**, Beck S. Cell-free DNA: Treasure trove for cancer medicine. ***Nature Materials*** 2017 Oct 25;16(11):1056-1057. doi: 10.1038/nmat5019. PMID: 29066831.
7. **Tanić M**, Beck S. Epigenome-wide association studies for cancer biomarker discovery in circulating cell-free DNA: technical advances and challenges. ***Current Opinion in Genetics and Development*** 2017 Feb;42:48-55. doi: 10.1016/j.gde.2017.01.017. Epub 2017 Feb 16. PMID: 28391083.
8. **Tanić M**, Krivokuća A, Čavić M, Mladenović J, Plesinac Karapandžić V, Beck S, Radulović S, Susnjar S, Janković R. Molecular signature of response to preoperative radiotherapy in locally advanced breast cancer. ***Radiation Oncology***. 2018 Oct 1;13(1):193. doi: 10.1186/s13014-018-1129-4. PMID: 30285791; PMCID: PMC6167820.
9. **Tanic M**, Yanowski K, Gómez-López G, Rodriguez-Pinilla MS, Marquez-Rodas I, Osorio A, Pisano DG, Martinez-Delgado B, Benítez J. MicroRNA expression signatures for the prediction of BRCA1/2 mutation-associated hereditary breast cancer in paraffin-embedded formalin-fixed breast tumors. ***International Journal of Cancer***. 2015 Feb 1;136(3):593-602. doi: 10.1002/ijc.29021. Epub 2014 Jun 19. PMID: 24917463.
10. **Tanic M**, Yanowsky K, Rodriguez-Antona C, Andrés R, Márquez-Rodas I, Osorio A, Benitez J, Martinez-Delgado B. Deregulated miRNAs in hereditary breast cancer revealed a role for miR-30c in regulating KRAS oncogene. ***PLoS One***. 2012;7(6):e38847. doi: 10.1371/journal.pone.0038847. Epub 2012 Jun 11. PMID: 22701724; PMCID: PMC3372467.

FULL LIST OF PUBLICATIONS

Book chapter

1. **Tanic M**. Epigenome-wide association study (EWAS): Methods and applications. In: Tollefsbol T, editor. Epigenetics Methods [Internet] 1 ed. ISBN 9780128194140: ***Academic Press Elsevier***; 2020. Chapter 21; p.591-613. Available from: https://www.sciencedirect.com/science/article/pii/B978012819414000029X.

News & Views

2. **Tanić M**, Beck S. Cell-free DNA: Treasure trove for cancer medicine. ***Nature Materials*** 2017 Oct 25;16(11):1056-1057. doi: 10.1038/nmat5019. PMID: 29066831.

Reviews, perspectives and opinions

1. Jorg Tost, Secil Ak-Aksoy, Daniele Campa, Chiara Corradi, Riccardo Farinella, Alejandro Ibáñez-Costa, Juan Dubrot, Julie Earl, Emma Barreto Melian, Agapi Kataki, Georgina Kolnikova, Gjorgji Madjarov, Marija Chaushevska, Jan Strnadel, **Miljana Tanić**, Miroslav Tomas, Peter Dubovan, Maria Urbanova, Verona Buocikova, and Bozena Smolkova*. Leveraging Epigenetic Alterations in Pancreatic Ductal Adenocarcinoma for Clinical Applications. ***Seminars in Cancer Biology*** 2025, 109: 101-124, ISSN 1044-579X,https://doi.org/10.1016/j.semcancer.2025.01.003.
2. Grahovac, J.; Đuric, A.; **Tanic, M**.; Krivokuca, A. Sex-Related Differences in Pancreatic Ductal Adenocarcinoma Progression and Response to Therapy. ***International Journal of Molecular Sciences*** 2024, 25, 12669. https://doi.org/10.3390/ijms252312669
3. **Tanić M**, Beck S. Epigenome-wide association studies for cancer biomarker discovery in circulating cell-free DNA: technical advances and challenges. ***Current Opinion in Genetics and Development*** 2017 Feb;42:48-55. doi: 10.1016/j.gde.2017.01.017. Epub 2017 Feb 16. PMID: 28391083.

Journal Articles

4. Francisco Gimeno-Valiente*, Carla Castignani,*, Elizabeth Larose Cadieux, Nana E. Mensah, Xiaohong Liu, Kezhong Chen, Olga Chervova, Takahiro Karasaki, Clare E. Weeden, Corentin Richard, Siqi Lai, Carlos Martínez-Ruiz, Emilia L Lim, Alexander M Frankell, Thomas BK Watkins, Georgia Stavrou, Ieva Usaite, Wei-Ting Lu, Daniele Marinelli, Sadegh Saghafinia, Gareth A. Wilson, Pawan Dhami, Heli Vaikkinen, Jonathan Steif, Selvaraju Veeriah, Robert E. Hynds, Martin Hirst, Crispin Hiley, Andrew Feber, Özgen Deniz, Mariam Jamal-Hanjani, Nicholas McGranahan, TRACERx Consortium, Stephan Beck$, Jonas Demeulemeester$, **Miljana Tanic$,** Charles Swanton$, Peter Van Loo$,#, Nnennaya Kanu,$,#. DNA methylation co-operates with genomic alterations during non-small cell lung cancer evolution. ***Nature** Genetics 57, 2226–2237 (2025). https://doi.org/10.1038/s41588-025-02307-x* ***$These senior authors jointly supervised the study.***
5. Cavic, M.; Nikolic, N.; Marinkovic, M.; Damjanovic, A.; Krivokuca, A.; **Tanic, M**.; Radulovic, M.; Stanojevic, A.; Pejnovic, L.; Djordjic Crnogorac, M.; Djuric, A.; Vukovic, M.; Stevanovic, V.; Kijac, J.; Karadzic, V.; Nikolic, S.; Stojanovic-Rundic, S.; Jankovic, R.; Spasic, J. Two Decades of Progress in Personalized Medicine of Colorectal Cancer in Serbia – Insights from the Institute for Oncology and Radiology of Serbia. ***Biomedicines*** 2024, 12(10), 2278; https://doi.org/10.3390/biomedicines12102278
6. Martínez-Ruiz C, Black JRM, Puttick C, Hill MS, Demeulemeester J, Larose Cadieux E, Thol K, Jones TP, Veeriah S, Naceur-Lombardelli C, Toncheva A, Prymas P, Rowan A, Ward S, Cubitt L, Athanasopoulou F, Pich O, Karasaki T, Moore DA, Salgado R, Colliver E, Castignani C, Dietzen M, Huebner A, Al Bakir M, **Tanić M**, Watkins TBK, Lim EL, Al-Rashed AM, Lang D, Clements J, Cook DE, Rosenthal R, Wilson GA, Frankell AM, de Carné Trécesson S, East P, Kanu N, Litchfield K, Birkbak NJ, Hackshaw A, Beck S, Van Loo P, Jamal-Hanjani M; TRACERx Consortium; Swanton C, McGranahan N. Genomic-transcriptomic evolution in lung cancer and metastasis. ***Nature***. 2023 Apr;616(7957):543-552. doi: 10.1038/s41586-023-05706-4. Epub 2023 Apr 12. PMID: 37046093; PMCID: PMC10115639.
7. Marina Popović Krneta*; Dragana Šobic Šaranovic; Ljiljana Mijatović Teodorović; Nemanja Krajčinović; Nataša Avramović; Živko Bojović; Zoran Bukumirić; Ivan Marković; Saša Rajšić; Biljana Bazić Djorović; Vera Artiko; Mihajlo Karličić; **Miljana Tanić*.** Prediction of Cervical Lymph Node Metastasis in Clinically Node Negative, T1-T2 Papillary Thyroid Carcinoma using Supervised Machine Learning Approach. ***Journal of Clinical Medicine*** (ISSN 2077-0383) on 22 May 2023 ***corresponding author**
8. **Tanić M*,** Ecker S and Lyskjær I (2024), Editorial: Epigenetic biomarkers for cancer risk stratification and patient management. ***Frontiers in Genetics***. 15:1421500. doi: 10.3389/fgene.2024.1421500 *corresponding author
9. Ostojić M, Jevrić M, Mitrović-Ajtić O, Živić K, **Tanić M**, Čavić M, Srdić-Rajić T, Grahovac J. Nischarin expression may have differing roles in male and female melanoma patients. ***Journal of Molecular Medicine*** (Berl). 2023 Aug;101(8):1001-1014. doi: 10.1007/s00109-023-02339-y. Epub 2023 Jun 29. PMID: 37382661
10. Miodrag Vukovic, **Miljana Tanic**, Ana Damjanovic, Marijana Pavlovic, Aleksandra Stanojevic, Katarina Zivic, Valentina Karadzic, Radmila Jankovic, Milena Cavic. EGFR mutation testing from pleural effusions of non-small cell lung cancer patients at the Institute for Oncology and Radiology of Serbia. ***Translational Oncology*** 2023. https://doi.org/10.1016/j.tranon.2023.101772
11. **Tanić M***, Moghul I, Rodney S, Dhami P, Vaikkinen H, Ambrose J, Barrett J, Feber A, Beck S*. Comparison and imputation-aided integration of five commercial platforms for targeted DNA methylome analysis. ***Nature Biotechnology***. 2022 Oct;40(10):1478-1487. doi: 10.1038/s41587-022-01336-9. Epub 2022 Jun 2. PMID: 35654977. ***Corresponding author**
12. Cavic M, Krivokuca A, Pavlovic M, Boljevic I, Rakobradovic J, Mihajlovic M, **Tanic M**, Damjanovic A, Malisic E, Jankovic R. EGFR mutation testing from liquid biopsy of non-small cell lung cancer at the Institute for Oncology and Radiology of Serbia. ***J BUON***. 2020 Nov-Dec;25(6):2635-2642. PMID: 33455107.
13. Rosenthal R, Cadieux EL, Salgado R, Bakir MA, Moore DA, Hiley CT, Lund T, **Tanić M**, Reading JL, Joshi K, Henry JY, Ghorani E, Wilson GA, Birkbak NJ, Jamal-Hanjani M, Veeriah S, Szallasi Z, Loi S, Hellmann MD, Feber A, Chain B, Herrero J, Quezada SA, Demeulemeester J, Van Loo P, Beck S, McGranahan N, Swanton C; TRACERx consortium. Neoantigen-directed immune escape in lung cancer evolution. ***Nature***. 2019 Mar;567(7749):479-485. doi: 10.1038/s41586-019-1032-7. Epub 2019 Mar 20. PMID: 30894752; PMCID: PMC6954100.

14. **Tanić M**, Krivokuća A, Čavić M, Mladenović J, Plesinac Karapandžić V, Beck S, Radulović S, Susnjar S, Janković R. Molecular signature of response to preoperative radiotherapy in locally advanced breast cancer. ***Radiation Oncology***. 2018 Oct 1;13(1):193. doi: 10.1186/s13014-018-1129-4. PMID: 30285791; PMCID: PMC6167820.
15. Barrett JE, Feber A, Herrero J, **Tanic M**, Wilson GA, Swanton C, Beck S. Quantification of tumour evolution and heterogeneity via Bayesian epiallele detection. ***BMC Bioinformatics***. 2017 Jul 25;18(1):354. doi: 10.1186/s12859-017-1753-2. PMID: 28743252; PMCID: PMC5526259.
16. Mladenovic J, Susnjar S, **Tanic M**, Jankovic R, Karadzic K, Gavrilovic D, Stojanovic S, Plesinac-Karapandzic V. Tumor response and patient outcome after preoperative radiotherapy in locally advanced non-inflammatory breast cancer patients. ***J BUON***. 2017 Mar-Apr;22(2):325-333. PMID: 28534352.
17. Jovanović KK[§], **Tanić M**[§], Ivanović I, Gligorijević N, Dojčinović BP, Radulović S. Cell cycle, apoptosis, cellular uptake and whole-transcri ptome microarray gene expression analysis of HeLa cells treated with a ruthenium(II)-arene complex with an isoquinoline-3-carboxylic acid ligand. ***Journal of Inorganic Biochemistry***. 2016 Oct;163:362-373. doi: 10.1016/j.jinorgbio.2016.04.011. Epub 2016 Apr 14. PMID: 27118029. [§]**Equal contribution**
18. Cavic M, Krivokuca A, Boljevic I, Brotto K, Jovanovic K, **Tanic M**, Filipovic L, Zec M, Malisic E, Jankovic R, Radulovic S. Pharmacogenetics in cancer therapy - 8 years of experience at the Institute for Oncology and Radiology of Serbia. ***J BUON***. 2016 Sept-Oct;21(5):1287-1295. PMID: 27837635.
19. **Tanić M**, Yanowski K, Andrés E, Gómez-López G, Socorro MR, Pisano DG, Martinez-Delgado B, Benítez J. miRNA expression profiling of formalin-fixed paraffin-embedded (FFPE) hereditary breast tumors. ***Genomics Data***. 2014 Nov 22;3:75-9. doi: 10.1016/j.gdata.2014.11.008. PMID: 26484152; PMCID: PMC4535901.
20. **Tanic M**, Yanowski K, Gómez-López G, Rodriguez-Pinilla MS, Marquez-Rodas I, Osorio A, Pisano DG, Martinez-Delgado B, Benítez J. MicroRNA expression signatures for the prediction of BRCA1/2 mutation-associated hereditary breast cancer in paraffin-embedded formalin-fixed breast tumors. ***International Journal of Cancer***. 2015 Feb 1;136(3):593-602. doi: 10.1002/ijc.29021. Epub 2014 Jun 19. PMID: 24917463.
21. **Tanic M**, Andrés E, Rodriguez-Pinilla SM, Marquez-Rodas I, Cebollero-Presmanes M, Fernandez V, Osorio A, Benítez J, Martinez-Delgado B. MicroRNA-based molecular classification of non-BRCA1/2 hereditary breast tumours. ***British Journal of Cancer***. 2013 Nov 12;109(10):2724-34. doi: 10.1038/bjc.2013.612. Epub 2013 Oct 8. PMID: 24104964; PMCID: PMC3833208.
22. Martinez-Delgado B, Gallardo M, **Tanic M**, Yanowsky K, Inglada-Perez L, Barroso A, Rodriguez-Pinilla M, Cañamero M, Blasco MA, Benitez J. Short telomeres are frequent in hereditary breast tumors and are associated with high tumor grade. ***Breast Cancer Research and Treatment***. 2013 Sep;141(2):231-42. doi: 10.1007/s10549-013-2696-6. Epub 2013 Sep 15. PMID: 24036693.
23. **Tanic M**, Zajac M, Gómez-López G, Benítez J, Martínez-Delgado B. Integration of BRCA1-mediated miRNA and mRNA profiles reveals microRNA regulation of TRAF2 and NFκB pathway. ***Breast Cancer Research and Treatment***. 2012 Jul;134(1):41-51. doi: 10.1007/s10549-011-1905-4. Epub 2011 Dec 14. PMID: 22167321.
24. **Tanic M**, Yanowsky K, Rodriguez-Antona C, Andrés R, Márquez-Rodas I, Osorio A, Benitez J, Martinez-Delgado B. Deregulated miRNAs in hereditary breast cancer revealed a role for miR-30c in regulating KRAS oncogene. ***PLoS One***. 2012;7(6):e38847. doi: 10.1371/journal.pone.0038847. Epub 2012 Jun 11. PMID: 22701724; PMCID: PMC3372467.

Consortia publications

25. Pan X, AbdulJabbar K, Coelho-Lima J, Grapa AI, Zhang H, Cheung AHK, Baena J, Karasaki T, Wilson CR, Sereno M, Veeriah S, Aitken SJ, Hackshaw A, Nicholson AG, Jamal-Hanjani M; TRACERx Consortium [281 authors including **Miljana Tanić**]; Swanton C, Yuan Y, Le Quesne J, Moore DA. The artificial intelligence-based model ANORAK improves histopathological grading of lung adenocarcinoma. ***Nature Cancer***. 2024 Feb;5(2):347-363. doi: 10.1038/s43018-023-00694-w. Epub 2024 Jan 10. PMID: 38200244; PMCID: PMC10899116.
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SCIENTIFIC COMMUNICATIONS

Invited talks

1. Biobanking from Scratch: A Roadmap to Setup a Rectal Cancer Biobank Within the STEPUPIORS Project. HDIR-7: Advances in Cancer Research & Treatment. **The 7th Meeting of the Croatian Association for Cancer Research** with International Participation. November 7 & 8, 2024 Abstract book L1
2. Tracking systemic therapy resistance of lung and colorectal cancer through targeted NGS analysis of genetic and epigenetic variants in liquid biopsies. **5th Congress of the Serbian association for cancer research**, 3 December 2021, Belgrade, Serbia. Abstract book p.4
3. DNA methylome sequencing – insight into epigenetics of non-small-cell lung cancer. **BioTechX Congress 2022**, 8-10 November 2022, Basel, Switzerland
4. Tracking systemic therapy resistance of lung and colorectal cancer through targeted NGS analysis of genetic and epigenetic variants in liquid biopsies. **5th Congress of the Serbian association for cancer research**, 3 December 2021, Belgrade, Serbia.
5. Targeted BS-seq for the study of epigenetic landscape in non-small cell lung cancer (eiTRACERx*)*. Epigenetics – The Full Picture, 12 -16 April 2021, **Illumina Virtual Event**
6. Methylation analysis of ctDNA. **TRANSCOLONCAN COST Action CA17118 Meeting**. Identifying Biomarkers Through Translational Research for Prevention and Stratification of Colorectal Cancer, 5-6 March 2020, Belgrade, Serbia.
7. Targeted bisulfite sequencing applications in cancer epigenetics. **Serbian society for bioinformatics seminar**, 4. April 2019, **Faculty of Mathematics**, Belgrade, Serbia.
8. Tracking (epi)genomic landscape during cancer progression in circulating tumor DNA. **2nd Congress of the Serbian association for cancer research** „Cancer research: perspectives and application“, Belgrade, Serbia, 2-3 October, 2015
9. Identification of biomarkers of resistance to preoperative radiotherapy in locally advanced breast cancer through microarray gene expression analysis. **50th National Cancer Symposia**; 28-29. November 2013, Belgrade, Serbia
10. Integration of BRCA1 mediated miRNA and mRNA profiles reveal microRNA regulation of TRAF2 and NFkB pathway. **MicroRNAs & Single Molecule Biology Europe-2011-Meeting**, GeneExpression Systems, 1-2 November 2011, Peterhouse College, University of Cambridge, Cambridge, UK.

Oral Presentations

1. **Tanic M**, Larose Cadieux, Wilson G, Guera-Assuncao JA, Barrett J, Demeulmeester J, Feber A, Van Loo P, Swanton C, Besk S. Application of epigenomics for the study of tumor heterogeneity in non-small-cell lung cancer. **Immunology at the confluence of multidisciplinary approaches**. 6-8 December 2019; Sava Centre, Belgrade, Serbia; Abstract book p113.
2. **Tanic M**, Rodney S, Barrett J, Parker H, Dhami P, Feber A, Beck S. Comprehensive comparison of commercial off-the-shelf platforms for targeted bisulfite sequencing. **Epigenomics of Common Diseases**; 6-8 November 2019; Wellcome Genome Campus Conference Centre, Hinxton, Cambridge, UK; Abstract book P67
3. **Tanic M**, Marquez-Rodas I, Fernandez V, Benitez J, Martinez-Delgado B. MicroRNA based classification of BRCAX hereditary breast tumors; **5th Familial Cancer Conference**, June 7-8, 2012 Madrid, Spain.
4. **Tanic M**, Zajac M, Benitez J, Martinez-Delgado, B. The role of microRNAs in regulation of BRCA1 gene; **IV International Serbian Genetic Society conference**, 1- 5 June, 2009. Tara, Serbia.

Poster Presentations

1. Francisco Gimeno-Valiente, Carla Castignani, Xiaohong Liu, Georgia Stavrou, Nana E. Mensah, Elizabeth Larose Cadieux, Özgen Deniz, Mariam Jamal-Hanjani, Stephan Beck, Jonas Demeulemeester, **Miljana Tanic**, Charles Swanton, Peter Van Loo, Nnennaya Kanu. Allosteric chromatin activity transition mechanisms drive epigenetic dosage compensation in essential genes triggered by oncogene activation in TRACERx [abstract]. In: Proceedings of the American Association for Cancer Research Annual Meeting 2025; Part 1 (Regular Abstracts); 2025 Apr 25-30; Chicago, IL. Philadelphia (PA): AACR; Cancer Res 2025;85(8_Suppl_1):Abstract nr 4094.
2. Bjelogrlic S, **Tanic M**, Krivokuca A, Djuric A, Marinkovic M, Stanojevic A, Botta-Orfila T, Castellví-Bel S, Fijneman R, Cavic M. SWOT Analysis for Maintaining the Sustainability of Newly Established Rectal Cancer Biobank at the Institute for Oncology and Radiology of Serbia. EACR2025 Congress, Lisbon, Portugal. June 16-19, 2025. Molecular Oncology 19 (Suppl. 1) (2025). p.646–647. EACR25-0416.
3. N Kanu, F Gimeno-Valiente, C Castignani, E Larose Cadieux, N Mensah, X Liu, O Chervova, CE Weeden, C Richard, C Martinez-Ruiz, I Usaite, G Stavrou, Ö Deniz, M Jamal-Hanjani, N McGranahan, S Beck, J Demeulemeester**, M Tanic**, C Swanton, P van Loo. DNA methylation co-operates with genomic alterations during non-small cell lung cancer evolution. ESMO Open. Multiomics and molecular characterisation of cancers Volume 9, Supplement 6103860 October 2024. 121P
4. Miodrag Vukovic, Lidija Filipovic, Nina Petrovic, Andrej Zecevic, Maja Kosanovic, **Miljana Tanic**, Radmila Jankovic, Tatjana Stanojkovic, Milica Popovic, Aleksandra Korac, Milena Cavic. Three methods of isolating EVs from pleural effusion samples of patients with advanced lung adenocarcinoma - potential applications in clinical practice? 2nd MOVE Symposium, October 8-11, 2024, Belgrade, Serbia, Abstract book, p132. Poster presentation P-BM-11.
5. Popović M, Sobic Saranovic D, Mijatovic Teodorovic Lj, Bukumiric Z, Bazić Đorović B, **Tanic M**. Evaluation and Application of K-Nearest Neighbors Algorithm for Predicting Cervical Lymph Node Metastasis in Papillary Thyroid Carcinoma. International Conference of Experimental and Numerical Investigations and NewTechnologies (CNN 2024), June 24-27 2024, Belgrade, Serbia. Abstract book. p. 102
6. **Miljana Tanić**, Mariska Bierkens, Marko Radulović, Aleksandra Stanojević, Mladen Marinković, Ana Krivokuća, Radmila Janković, Ana Đurić, Sergi Castellvi-Bel, Jerome Zoidakis; Remond J. Fijneman and Milena Čavić. Navigating ELSI for FAIR multiomics data management within STEPUPIORS international rectal cancer project. BelBi2024; 5th Belgrade Bioinformatics Conference, 17-20 june 2024; Abstract book. p. 117

7. Teresa Botta-Orfila, Snezana Bjelogrlic, **Miljana Tanic**, Ana Krivokuca, Ada Soler-Ventura, Noemi González-Abuin, Gemma Aragonès, Ana Djuric, Aina Rodríguez-Vilarrupla, HCB-IDIBAPS Biobank group, Jerome Zoidakis, Remond Fijneman, Sergi Castellví-Bel, Milena Cavic. International Collaborative Biobanking: Shaping the future together. Europe Biobank Week Congress 2024, Vienna, Austria. 14-17.05.2024. Abstract book, p.83.
8. Marina Popović Krneta, Dragana Šobić Šaranović, Ljiljana Mijatović Teodorović, Zoran Bukumirić, Tatjana Stanojković, Ivana Pašić, Jadranka Antić, Biljana Bazić Đorović, **Miljana Tanić**. Predicting early response to radioiodine therapy in papillary thyroid carcinoma using supervised machine learning approach: a pilot study. International Congress on Nuclear Medicine, Molecular Imaging and Molecular Therapy FROM IMAGE TO DIAGNOSIS & TREATMENT, Novi Sad April 19-20, 2024. Abstract book. p. 28
9. Milena Cavic, Ana Djuric, Mladen Marinkovic, Aleksandra Stanojevic, **Miljana Tanic**, Snezana Bjelogrlic, Jelena Spasic, Ana Damjanovic, Marija Djordjic Crnogorac, Ana Vuletic, Katarina Mirjacic Martinovic, Marko Radulovic, Suzana Stojanovic-Rundic, Ana Krivokuca, Radmila Jankovic, Sergi Castellvi-Bel, Jerome Zoidakis, Remond J. Fijneman; Abstract 1304: Employing widening funds to address inequity in cancer research - example of the STEPUPIORS collaborative rectal cancer project. Cancer Res 15 March 2024; 84 (6_Supplement): 1304. https://doi.org/10.1158/1538-7445.AM2024-1304
10. Francisco Gimenez-Valiente, Carla Castignani, Elizabeth Cadieux L. Cadieux, Nana E. Mensah, Olga Chervova, Mariam Jamal-Hanjani, Nicholas McGranahan, Stephan Beck, Jonas Demeulemeester, **Miljana Tanic**, Charles Swanton, Peter Van Loo, Nnennya Kanu; Abstract 1611: DNA methylation co-operates with genomic alterations during non-small cell lung cancer evolution. Cancer Res 15 March 2024; 84 (6_Supplement): 1611. https://doi.org/10.1158/1538-7445.AM2024-1611
11. Vuković, M., Stanojević, A., Karađžić, V., Damjanović, A., Miletić, T. N., **Tanić, M**., Čavić, M., & Janković, R. Detection of resistant EGFR T790M mutation from liquid biopsy samples of patients with advanced nonsmall cell lung cancer: comparison of qPCR and dPCR detection methods. 6th Congress of Serbian Association for Cancer Research (SDIR): From Collaboration to Innovation in Cancer Research, 2023, 2-4.10.2023. Belgrade, Serbia, Oncology Insights Proceedings, p71, Abstract No. P03
12. Isidora Pantović, Katarina Živić, Ivana Boljević, Milica Nedeljković, Radmila Janković, **Miljana Tanić**. Comparison of variant calling tools for mutation analysis of BRCA1 and BRCA2 genes in patients with epithelial ovarian cancer. 6th Congress of SDIR: From Collaboration to Innovation in Cancer Research. SDIR6 2023, 2-4.10.2023. Belgrade, Serbia, Oncology Insights Proceedings, p76, Abstract No. P07
13. Jelena Milovanović, Ivana Boljević, Jelena Spasić, Ana Krivokuća, Milena Čavić, **Miljana Tanić**. Ultra-short cfDNA fragment detection during systemic therapy of advanced-stage colorectal cancer. 6th Congress of SDIR: From Collaboration to Innovation in Cancer Research. SDIR6 2023, 2-4.10.2023. Belgrade, Serbia, Oncology Insights Proceedings, p75, Abstract No. P06
14. Snežana K. Bjelogrlić, **Miljana Tanić**, Mladen Marinković, Jelena Spasić, Ana Đurić, Suzana Stojanović-Rundić, Aleksandra Stanojević, Marija Đorđić-Crnogorac, Katarina Mirjačić Martinović, Ana Vuletić, Ana Damjanović-Veličković, Marko Radulović, Radmila Janković, Jerome Zoidakis, Remond Fijneman, Sergi Castellví-Bel, Ana Krivokuća, Milena Čavić. Establishment of a first cancer Biobank at the Institute for Oncology and Radiology of Serbia – advantages, challenges and future perspectives. 6th Congress of SDIR: From Collaboration to Innovation in Cancer Research. SDIR6 2023, 2-4.10.2023. Belgrade, Serbia, Oncology Insights Proceedings, p44, Abstract No.L14
15. Katarina Živić, Ivana Boljević, Marija Ostojić, Radmila Janković, **Miljana Tanić**. Effects of promoter methylation and mutation on BRCA1/2 expression in ovarian cancer. 6th Congress of SDIR: From Collaboration to Innovation in Cancer Research. SDIR6 2023, 2-4.10.2023. Belgrade, Serbia, Oncology Insights Proceedings, p74, Abstract No. P05
16. Vukovic M, Filipovic L, Popovic M, Petrovic N, **Tanic M**, Jankovic R, Korac A, Cavic M. Isolation and characterization of extracellular vesicles from pleural effusion samples of patients with advanced non-small cell lung cancer. Small New World 2.0, September 4-5, 2023. Graz, Austria, Abstract Book, p51. Poster presentation P36.
17. Pantović, Isidora; Živić, Katarina ; Boljević, Ivana ; Nedeljković, Milica ; Janković, Radmila ; **Tanić, Miljana**. Evaluation of variant calling tools for detection of SNVs in BRCA1 and BRCA2 genes in patients from the Institute of Oncology and Radiology of Serbia. 4th Belgrade Bioinformatics Conference - BelBi2023. Belgrade, Serbia, from 19 to 23 June 2023 - Abstract book p. 101-101
18. Marina Popović Krneta*, Nemanja Krajčinović, Zoran Bukumirić, and **Miljana Tanić**. Supervised Machine Learning Approach for Prediction of Occult Lymph Node Metastasis in T1-T2 Papillary Thyroid Carcinoma. 4th Belgrade BioInformatics Confernce - BelBi2023; Belgrade, Serbia, from 19 to 23 June 2023 - Abstract book p. 87
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20. Djuric A, **Tanic M**, Bjelogrlic S, Stojanovic-Rundic S, Marinkovic M, Stanojevic A, Fijneman R, Castellví-Bel S, Zoidakis J, Cavic M. The Road from Human Sample Collections to the First Rectal Cancer Biobank at the Institute for Oncology and Radiology of Serbia. Molecular Oncology, Volume 17 (Suppl. 1):464-465. EACR 2023: Innovative Cancer Science, 12-15 June 2023, Torino, Italy. Abstract No. 0685. https://doi.org/10.1002/1878-0261.13471
21. **Tanic M**, Emiloju O, Dhami P, Beck S. Comparison of pre-analytical methods for DNA methylation analysis of cfDNA. [abstract]. In: Proceedings of the **American Association for Cancer Research Annual Meeting 2023**; Part 1 (Regular and Invited Abstracts); 2023 Apr 14-19; Orlando, FL. Philadelphia (PA): AACR; Cancer Res 2023;83(7_Suppl):Abstract nr 6012.
22. Milovanovic J, Boljevic I, Spasic J, Topalovic M, Krivokuca A, Cavic M, **Tanic M**. Circulating cell-free DNA fragmentation profiles during systemic therapy of advanced-stage non-small cell lung cancer patients. 93P Abstract. **ESMO Targeted Anticancer Therapies Congress**, 6-8 March 2023, Paris, France
23. Živić K, Boljević I, Ostojić M, **Tanić M**. Prevalence of somatic BRCA1/2 gene methylation in patients with ovarian cancer. **Serbian Biochemical Society**, Eleventh Conference Scientific meeting of an international character, September 22nd and 23rd, 2022, Novi Sad, Serbia

24. Popovic M, Sobic Saranovic D, **Tanic M**, Bukumiric Z, Krajcinovic N, Avramovic N, Bojovic Z, Mijatovic Teodorovic L. Comparison of different machine learning algorithms in prediction of cervical lymph node metastasis in papillary thyroid carcinoma. „International Conference of Experimental and Numerical Investigations and New Technologies. **CNN TECH 2022** Zlatibor, July 05- July 08, 2022
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