

Magdalena Grce

- PhD, Senior Scientist
- Born January 4, 1957, Zadar, Croatia
- Croatian Nationality
- Spoken languages: Croatian, French, English and Spanish
- Home address: Vjenceslava Richtera, HR-10000 Zagreb, Croatia
- Phone: +385-1-2335337; Mobile phone: +385-98-260331
- Office address: Rudjer Boskovic Institute, Bijenicka 54, HR-10000 Zagreb, Croatia
- Phone: +385-1-4561110; Fax: +385-1-4561010
- E-mail: grce@irb.hr

Working assignments

- 2004-now: Head of Laboratory of Molecular Virology and Bacteriology, Division of Molecular Medicine, Rudjer Boskovic Institute (www.irb.hr), Bijenicka 54, Zagreb, Croatia
- 1994-2003: Researcher, Laboratory of Molecular Oncology, Division of Molecular Medicine, Rudjer Boskovic Institute (www.irb.hr), Bijenicka 54, Zagreb, Croatia
- 1986-1994: Head of Laboratory of Viral Antigens Production on Cell Culture, Department of Virology, Public Health Institute of the Republic of Croatia (www.hjz.hr), Rockefellerova 12, 10000 Zagreb, Croatia

Actual interest

- Molecular biomarkers in chronic graft versus host disease (cGvHD).
- Research on human papillomaviruses and associated cancer.
- Public health activities related to cervical cancer prevention.

Former interest

- Research on human papillomaviruses (HPV) and other microorganismes implicated in various cancerogenesis, particularly cervical cancer and head and neck cancer.
- In vitro research of antiviral properties of natural or newly synthesized compounds.
- Research in molecular epidemiology of tuberculosis.
- Design, production and evaluation of viral antigen on cell culture for serologic testing and animal immunization.
- Research of viral infections in environmental and drinking water.

Education

- 1998, Ph.D. Biology, Department of Biology, Faculty of Science & Mathematics, University of Zagreb, Zagreb, Croatia
- 1983, D.E.R.B.H. (Diplôme d'Etudes et de Recherche en Biologie Humaine), Virology of tumours and experimental leukaemia, Department of Experimental Oncology, Faculty of Science, University of Paris 7, Paris, France
- 1981, B.Sc. Biochemistry, Faculty of Science, University of Paris 7, Paris, France
- 1981, B.Sc. Human Biology, Faculty of Science, University of Paris 7, Paris, France

Main research projects

- 2014-2018: Principal investigator of the project "Epigenetic changes in head and neck squamous cell carcinoma - EpiC-HNSCC" (CSF - Croatian Science Foundation)
- 2013-2015: Investigator on the project "Clinical and biological factors determining severity and activity of chronic graft-versus-host disease after allogeneic hematopoietic stem cell transplantation" (UKF - Unity Through Knowledge Fund)
- 2007-2014: Principal investigator of the project "Aberrant DNA methylation in HPV associated lesions", Ministry of Science, Education and Sport, Croatia.
- 2001-2006: Principal investigator of the project "Genetic and molecular prognostic factors of cervical oncogenesis", Ministry of Science, Education and Sport, Croatia.

Mentorship and teaching

- 2002-now: Mentor of several diplomas (4 B.sc., 4 M.sc. and 6 Ph.D.)
- 1995-1998: Leader of several diplomas (4 B.sc., 2 M.sc., 1 Ph.D.).
- 1995-now: Teaching of postgraduate students and continuous training of medical doctors at the University of Zagreb.

Memberships

- Krohem - Croatian cooperative group for hematological diseases (since March 2015)
- Croatian society for human genetic
- Croatian society for medical microbiology
- Croatian society for medical biochemistry
- European Association for Cancer Research (EACR)
- International Papillomavirus society (IPVS)
- European Cervical Cancer Association (ECCA; 2003-2015)

Main publications in the last 10 years

1. Sabol I, Milutin Gašperov N, Matovina M, Božinović K, Grubišić G, Fističić I, Belci D, Alemany L, Džebro S, Dominis M, Šekerija M, Tous S, de Sanjosé S, **Grce M**. Cervical HPV type-specific pre-vaccination prevalence and age distribution in Croatia. **PLoS One**. 2017;12(7):e0180480. doi: 10.1371/journal.pone.0180480. eCollection 2017. (IF=2.766; MULTIDISCIPL. SCIENCES (15/64) Q1)

2. Sabol I, Smahelova J, Klozar J, Mravak-Stipetic M, Gheit T, Tommasino M, **Grce M**, Tachezy R. Beta-HPV types in patients with head and neck pathology and in healthy subjects. **J Clin Virol**. 2016;82:159-165. doi: 10.1016/j.jcv.2016.07.019. (IF=3.051; VIROLOGY (16/34) Q2)
3. Čević R, Desnica L, Pulanić D, Serventi Seiwert R, Ilić I, **Grce M**, Mravak Stipetić M, Klepac Pulanić T, Bilić E, Bilić E, Milošević M, Vrhovac R, Nemet D, Pavletic SZ. High frequency of cutaneous manifestations including vitiligo and alopecia areata in a prospective cohort of patients with chronic graft-vs-host disease. **Croat Med J**. 2016;57(3):229-38. (IF=1.619; MEDICINE, GENERAL & INTERNAL (69/155) Q2)
4. Dediol E, Sabol I, Virag M, **Grce M**, Muller D, Manojlović S. HPV prevalence and p16INKa overexpression in non-smoking non-drinking oral cavity cancer patients. **Oral Dis**. 2016;22(6):517-22. doi: 10.1111/odi.12476 (IF=2.001; DENTISTRY, ORAL SURGERY & MEDICINE (27/90) Q2)
5. Milutin Gašperov N, Sabol I, Planinić P, Grubišić G, Fističić I, Čorušić A, **Grce M**. Methylated Host Cell Gene Promoters and Human Papillomavirus Type 16 and 18 Predicting Cervical Lesions and Cancer. **PLoS One**. 2015;10(6):e0129452. (IF=3.057; MULTIDISCIPLINARY SCIENCES (11/63) Q1)
6. Milutin Gašperov N, Farkas SA, Nilsson TK, **Grce M**. Epigenetic activation of immune genes in cervical cancer. **Immunol Lett**. 2014;162(2 Pt B):256-7. (IF=2.512; IMMUNOLOGY (84/148) Q3)
7. Zhang C, Park JS, **Grce M**, Hibbitts S, Palefsky JM, Konno R, Smith-McCune KK, Giovannelli L, Chu TY, Picconi MA, Piña-Sánchez P, Settheetham-Ishida W, Coutlée F, De Marco F, Woo YL, Ho WC, Wong MC, Chirenje MZ, Magure T, Moscicki AB, Sabol I, Fiander AN, Chen Z, Chan MC, Cheung TH, Burk RD, Chan PK. Geographical distribution and risk association of human papillomavirus genotype 52-variant lineages. **J Infect Dis**. 2014;210(10):1600-4. (IF=5.997; INFECTIOUS DISEASES (18/148) Q1)
8. **Grce M**, Mravak-Stipetić M. Human papillomavirus-associated diseases. **Clin Dermatol**. 2014;32(2):253-8. Review. (IF=2.470; DERMATOLOGY (14/63) Q1)
9. Drvar DL, Lipozenčić J, Sabol I, Mokos ZB, Ilic I, **Grce M**. Human papillomavirus status in extragenital nonmelanoma skin cancers. **Clin Dermatol**. 2014;32(2):248-52. (IF=2.470; DERMATOLOGY (14/63) Q1)
10. Farkas SA, Milutin-Gašperov N, Grce M, Nilsson TK. Genome-wide DNA methylation assay reveals novel candidate biomarker genes in cervical cancer. **Epigenetics**. 2013;8(11):1213-25. (IF=5.108; GENETICS & HEREDITY (26/165) Q1)
11. Mravak-Stipetić M, Sabol I, Kranjčić J, Knežević M, **Grce M**. Human papillomavirus in the lesions of the oral mucosa according to topography. **PLoS One**. 2013;8(7):e69736. (IF=3.534; MULTIDISCIPLINARY SCIENCES (8/55) Q1)
12. Leović D, Sabol M, Ozretić P, Musani V, Car D, Marjanović K, Zubčić V, Sabol I, Sikora M, **Grce M**, Glavaš-Obrovac L, Levanat S. Hh-Gli signaling pathway activity in oral and oropharyngeal squamous cell carcinoma. **Head & Neck**. 2012;34(1):104-12. (IF=2.833; OTORHINOLARYNGOLOGY (3/44) Q1)
13. Geraets D, Alemany L, Guimera N, de Sanjose S, de Koning M, Molijn A, Jenkins D, Bosch X, Quint W; RIS HPV TT Study Group (... **Grce M**...). Detection of rare and possibly carcinogenic human papillomavirus genotypes as single infections in invasive cervical cancer. **J Pathol**. 2012;228(4):534-43. (IF=7.585; ONCOLOGY (15/197), PATHOLOGY (3/77) Q1)
14. Sabol I, Matovina M, Si-Mohamed A, **Grce M**. Characterization and Whole Genome Analysis of Human Papillomavirus Type 16 E1-1374^63nt Variants. **PLoS One**. 2012;7(7):e41045. (IF=3.730; MULTIDISCIPLINARY SCIENCES (7/56) Q1)
15. Poljak-Blazi M, Jaganjac M, Sabol I, Mihaljevic B, Matovina M, **Grce M**. Effect of ferric ions on reactive oxygen species formation, cervical cancer cell lines growth and E6/E7 oncogene expression. **Toxicol In Vitro**. 2010;25(1):160-6. (IF=2.546; TOXICOLOGY (33/83) Q2)
16. de Sanjose S, ... **Grce M**, ..., Muñoz N, Bosch FX; RIS HPV TT Study Group. Human papillomavirus genotype attribution in invasive cervical cancer: a retrospective cross-sectional worldwide study. **Lancet Oncol**. 2010;11(11):1048-56. (IF=17.764; ONCOLOGY (5/185) Q1)
17. **Grce M**. Primary and secondary prevention of cervical cancer. **Expert Rev Mol Diagn**. 2009;9(8):851-7. Review. (IF=3.693; PATHOLOGY (13/71) Q1)
18. Nicula FA, Anttila A, Neamtii L, Zakelj MP, Tachezy R, Chil A, **Grce M**, Kesić V. Challenges in starting organised screening programmes for cervical cancer in the new member states of the European Union. **Eur J Cancer**. 2009;45(15):2679-84. (IF=4.121; ONCOLOGY (44/166) Q2)
19. Sabol I, Cretnik M, Hadzisejdić I, Si-Mohamed A, Matovina M, Grahovac B, Levanat S, **Grce M**. A new approach for the evaluation of the human papillomavirus type 16 variability with high resolution melting analysis. **J Virol Methods**. 2009;162(1-2):142-7. (IF=2.133; BIOTECHNOLOGY & APPLIED MICROBIOLOGY (69/152) Q2)
20. Matovina M, Sabol I, Grubišić G, Gasperov Milutin N, **Grce M**. Identification of human papillomavirus type 16 integration sites in high-grade precancerous cervical lesions. **Gynecol Oncol**. 2009;113(1):120-7. (IF=3.733; OBSTETRICS & GYNECOLOGY (5/77) Q1)
21. Sabol I, Matovina M, Gasperov NM, **Grce M**. Identification of a novel human papillomavirus type 16 E1 gene variant with potentially reduced oncogenicity. **J Med Virol**. 2008;80(12):2134-40. (IF=2.576; VIROLOGY (14/27) Q3)
22. **Grce M**, Davies P. Human papillomavirus testing for primary cervical cancer screening. **Expert Rev Mol Diagn**. 2008;8(5):599-605. Review. (IF=3.472; PATHOLOGY (15/69) Q1)
23. Milutin Gasperov N, Sabol I, Matovina M, Spaventi S, **Grce M**. Detection and typing of human papillomaviruses combining different methods: polymerase chain reaction, restriction fragment length polymorphism, line probe assay and sequencing. **Pathol Oncol Res**. 2008;14(4):355-63. (IF=1.260; PATHOLOGY (50/69) Q3)
24. Sabol I, Salakova M, Smahelova J, Pawlita M, Schmitt M, Gasperov NM, **Grce M**, Tachezy R. Evaluation of different techniques for identification of human papillomavirus types of low prevalence. **J Clin Microbiol**. 2008;46(5):1606-13. (IF=3.945; MICROBIOLOGY (18/91) Q1)