



Mladen Paradžik

Date of birth: 08/04/1983 | **Nationality:** Croatian | **Gender:** Male |

(+385) 958136286 | mladen.paradzik@irb.hr |

<https://www.irb.hr/eng/About-RBI/People/Mladen-Paradzik> |

Bitorajska , 24, 10000, Zagreb, Croatia

WORK EXPERIENCE

02/2022 – CURRENT – Zagreb, Croatia

RESEARCH ASSOCIATE – RUĐER BOŠKOVIĆ INSTITUTE

work field and research interest: mechanobiology, cell biology, cancer therapy, cytoskeleton

02/2021 – 02/2022 – Zagreb

PROFESSIONAL ADVISOR – RUĐER BOŠKOVIĆ INSTITUTE, LABORATORY FOR METABOLISM AND AGING

Work on a project: ONE - Research and development of meals for the survival of the new generation Research, Development and Innovation Project (IRI) awarded by the The Ministry of Economy and Sustainable Development
Supervisor: dr.sc. Tihomir Balog

06/2019 – 08/2020 – Torino, Italy

POSTDOCTORAL RESEARCHER – UNIVERSITY OF TORINO, MOLECULAR BIOTECHNOLOGY CENTRE

Work on a project: Biological modifiers involved in progression of HER2+ breast cancer
Funded by: University of Torino
Supervisor: dr.sc. Paola Defilippi

11/2015 – 07/2019 – Zagreb, Croatia

POSTDOCTORAL RESEARCHER – RUĐER BOŠKOVIĆ INSTITUTE, LABORATORY FOR CELL BIOLOGY AND SIGNALLING

Work on a project: Molecular mechanisms of chemosensitisation of human breast carcinoma and melanoma cell lines by silencing of integrins
Funded by: Croatian research foundation (HRZZ)
Supervisor: dr.sc. Andreja Ambriović Ristov

12/2009 – 11/2015 – Zagreb, Croatia

PHD STUDENT – RUĐER BOŠKOVIĆ INSTITUTE

Work field: Molecular interactions in lymphocyte differentiation
Funded by: Ministry of science, education and sport
Supervisor: dr.sc. Mariastefania Antica

11/2008 – 11/2009 – Zagreb, Croatia

PHD STUDENT – INSTITUTE OF IMMUNOLOGY, CHILDREN'S HOSPITAL ZAGREB, ZAGREB (CROATIA)

Work field: Modulation of function of human regulatory T-cells
Funded by: Ministry of science, education and sport
Supervisor: dr.sc. Alenka Gagro

● EDUCATION AND TRAINING

11/2008 – 06/2015 – Zagreb, Croatia

PHD – Faculty of science, University of Zagreb

10/2001 – 04/2008 – Zagreb, Croatia

BACHELOR OF SCIENCE – Faculty of science, University of Zagreb

03/2019 – 06/2019 – Torino, Italy

SHORT TERM SCIENTIFIC MISSION – University of Torino, Molecular biotechnology centre

Work on project: The role of miR-214 in stromal cells during tumor development

Acquired knowledge: The study of the interaction between the tumor and the associated microenvironment in vitro and the training started to perform experiments in vivo on a mouse model.

04/2018 – Manchester, United Kingdom

SHORT TERM SCIENTIFIC MISSION – Wellcome Trust Centre for Cell-Matrix Research

MS sample preparation, bioinformatic data analysis

03/2017 – Manchester, United Kingdom

SHORT TERM SCIENTIFIC MISSION – Wellcome Trust Centre for Cell-Matrix Research

Isolation of Integrin adhesion complexes (IACs)

11/2012 – 12/2012 – Pariz, France

SHORT TERM SCIENTIFIC MISSION – Faculté de Médecine René Descartes

Single cell multiplex PCR, cell sorting

11/2011 – 12/2011 – Pariz, France

SHORT TERM SCIENTIFIC MISSION – Faculté de Médecine René Descartes

Single cell multiplex PCR primer design

11/2010 – 12/2010 – Pariz, France

SHORT TERM SCIENTIFIC MISSION – Faculté de Médecine René Descartes

Confocal microscopy, OP9 cell line coculturing system

04/2008 – 10/2008 – Zagreb, Croatia

PROFESSIONAL TRAINING – Ruđer Bošković Institute

Animal cell cultures, DNA, RNA, protein isolation, Western blotting, PCR, flow cytometry

● LANGUAGE SKILLS

Mother tongue(s): **CROATIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	C1	B2
GERMAN	A1	A2	A1	A1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Internet | MS Office (Word Excel PowerPoint) | Communication software (Skype, Zoom, MS teams) |
Work on PC | Team Management & Team Work

● HONOURS AND AWARDS

2020

Ruđer Bošković Institute-Best scientific paper award

KANK2 links α V β 5 Focal Adhesions to Microtubules and Regulates Sensitivity to Microtubule Poisons and Cell Migration, published in *Frontiers in cell and developmental biology* (chosen as Editor's pick-Highlights in cell adhesion and migration)

2019

Fellowship -University of Torino, (Molecular biotechnology centre, Supervisor: dr.sc. Daniela Taverna)

Short term scientific mission; Work on a project: Role of miR-214 and miR-148b in tumor/stromal cell interactions and as therapeutic targets in cancer progression
Funded by: Associazione Italiana per la Ricerca sul Cancro (AIRC)
Supervisor: dr.sc. Daniela Taverna

2019

Ruđer Bošković Institute-Best scientific paper award

Differential Effects of Integrin α v Knockdown and Cilengitide on Sensitization of Triple-Negative Breast Cancer and Melanoma Cells to Microtubule Poisons, published in *Molecular pharmacology journal*.

2017

COST Eurocellnet felowship (CA15214)

Short term scientific mission - Manchester (Wellcome Trust Centre for cell-matrix research - Supervisor: dr.sc. Martin Humphries).

2012

Scholarship of the French Institute in Croatia

Short term scientific mission - Paris (U1020, Institut Necker, Supervisor: prof.dr. Sophie Ezine; "Différenciation et Physiologie des lymphocytes T")

2011

Scholarship of the Ruđer Bošković Institute

Short term scientific mission - Paris (U1020, Institut Necker, Supervisor: prof.dr. Sophie Ezine; "Différenciation et Physiologie des lymphocytes T")

2010

Scholarship of the French Institute in Croatia

Short term scientific mission - Paris (U1020, Institut Necker, Supervisor: prof.dr. Sophie Ezine; "Différenciation et Physiologie des lymphocytes T")

2009

Awarded by the Medal of City of Zagreb

● **YOUNG SCIENTISTS - MENTORSHIP AND TRAINING**

2020

Elena Lupano

Professional student training within the project: The role of miR-214 in mechanosensing and metabolism, University of Torino, Supervisor: prof.dr.sc. Daniela Taverna

2018

Zrinka Vitković

Master dissertation- Adhesive characterization in triple negative breast carcinoma cell line MDA-MB-231 upon stable silencing of integrin subunit αv , Supervisor: dr. sc. Andreja Ambriović Ristov

2016

Delphine Sedda

Master dissertation - Knockdown of the integrin subunit αv in MDA-MB-435S cells decreases sensitivity to cisplatin, Supervisor: dr. sc. Andreja Ambriović Ristov

2012

Matea Konjević

Master dissertation - Notch and Ikaros in hematopoietic cell differentiation, Supervisor: prof.dr.sc. Mariastefania Antica

2010

Sanja Novak

Master dissertation - Transcription factor expression in thymocytes of adult rats prenatally exposed to ethanol, Supervisor: prof.dr.sc. Mariastefania Antica

TEACHING

09/2015 – 10/2016

Assistant in the field of cell biology

Faculty of science - University of Zagreb

10/2013 – 06/2014

Assistant in the field of cell biology

Faculty of science - University of Zagreb

MEMBERSHIP IN SCIENTIFIC ORGANIZATIONS

2018 – 2020

FEBS and Croatian Society of Biochemistry and Molecular Biology

member of the Croatian Society of Biochemistry and Molecular Biology (HDBDM)
member of Federation of European Biochemical Societies (FEBS)

2010 – CURRENT

EACR and Croatian Association for Cancer Research

member of the Croatian Association for Cancer Research, (HDIR)
member of the European Association for Cancer Research, (EACR)

FEATURED PUBLICATIONS

2022

miRNA-guided reprogramming of glucose and glutamine metabolism and its impact on cell adhesion/migration during solid tumor progression

Cell Mol Life Sci. 2022 Mar 29;79(4):216.

L Quirico, F Orso, S Cucinelli, M Paradzik, D Natalini, G Centonze, A Dalmaso, S La Vecchia, M Coco, V Audrito, C Riganti, P Defilippi, D Taverna IF:9.261

2021

The Tongue Squamous Carcinoma Cell Line Cal27 Primarily Employs Integrin $\alpha 6 \beta 4$ -Containing Type II Hemidesmosomes for Adhesion Which Contribute to Anticancer Drug Sensitivity

Front Cell Dev Biol. 2021 Dec 16 9:786758

A Tadijan, JD Humphries, I Samaržija, N Stojanović, J Zha, K Čuljak, M Tomić, M Paradžik, D Nestić, H Kang, MJ Humphries, A Ambriović-Ristov IF:6.684

2020

Integrin Crosstalk Contributes to the Complexity of Signalling and Unpredictable Cancer Cell Fates

Cancers (Basel) 2020 Jul 15 12(7):1910

I Samaržija, A Dekanić, JD Humphries, M Paradžik, N Stojanović, MJ Humphries, A Ambriović-Ristov IF: 6.639

2020

Sirt3 Exerts Its Tumor-Suppressive Role by Increasing p53 and Attenuating Response to Estrogen in MCF-7 Cells

Antioxidants (Basel). 2020 Apr; 9(4):294

Pinterić M, Podgorski I, Popović Hadžija M, Filić V, Paradžik M, Proust BLJ, Dekanić A, Ciganek I, Pleše D, Marčinko D, Balog T, Sobočanec S IF: 6.312

2020

KANK2 Links $\alpha\beta5$ Focal Adhesions to Microtubules and Regulates Sensitivity to Microtubule Poisons and Cell Migration

Front Cell Dev Biol. 2020 Mar; 8:125

Paradžik M, Humphries JD, Stojanović N, Nestić D, Majhen D, Dekanić A, Samaržija I, Sedda D, Weber I, Humphries MJ, Ambriović-Ristov A IF: 6.684

2019

FADD-deficient mouse embryonic fibroblasts undergo RIPK1-dependent apoptosis and autophagy after NB-UVB irradiation.

J Photochem Photobiol B. 2019 May;194:32-45

Antunovic M, Matic I, Caput Mihalic K, Nagy B, Josipovic P, Dzinic T, Skelin J, Paradzik M, Stambuk J, Marijanovic I IF: 6.252

2018

Differential Effects of Integrin $\alpha\nu$ Knockdown and Cilengitide on Sensitization of Triple-Negative Breast Cancer and Melanoma Cells to Microtubule Poisons

Mol Pharmacol. 2018 Dec; 94(6):1334-1351

Stojanović N, Dekanić A, Paradžik M, Majhen D, Ferenčak K, Ruščić J, Bardak I, Supina C, Tomicic MT, Christmann M, Osmak M, Ambriović-Ristov A. IF: 3.664

2018

De novo expression of transfected sirtuin 3 enhances susceptibility of human MCF-7 breast cancer cells to hyperoxia treatment

Free Radic Res. 2018 Jun; 52(6):672-684

Pinterić M, Podgorski I, Sobočanec S, Popović Hadžija M, Paradžik M, Dekanić A, Marinović M, Halasz M, Belužić R, Davidović G, Ambriović Ristov A, Balog T. IF: 2.839

2018

Apigenin, a dietary flavonoid, induces apoptosis, DNA damage, and oxidative stress in human breast cancer MCF-7 and MDA MB-231 cells

Naunyn Schmiedebergs Arch Pharmacol. 2018 May; 391(5):537-550

Vrhovac Madunić I, Madunić J, Antunović M, Paradžik M, Garaj-Vrhovac, Breljak D, Marijanović I, Gajski G IF: 2.058

2012

Ikaros family transcription factors expression in rat thymus: detection of impaired development

In J Immunopathol Pharmacol. 2012 Oct-Dec; 25(4):893-900

Paradžik M, Novak S, Mokrovic G, Bordukalo Niksic T, Heckel D, Stipic J, Pavicic Baldani D, Cicin-Sain L, Antica M. IF: 3.219

2010

Gene expression in formalin-fixed paraffin-embedded lymph nodes

J Immunol Methods. 2010 Jul; 359(1-2):42-46
Antica M, Paradzik M, Novak S, Dzebro S, Dominis M. IF: 1.951

2010

Analysis of Ikaros family splicing variants in human hematopoietic lineages

Coll Antropol. 2010 Mar; 34(1):59-62
Matulić M*, Paradzik M*, Puskarić BJ, Stipić J, Antica M. IF: 0.15

2009

Ikaros family transcription factors in chronic and acute leukemia

Am J Hematol. 2009 Jun; 84(6):375-7
Matulic M*, Paradzik M*, Cicin-Sain L, Kapitanovic S, Dubravcic K, Batinic D, Antica M. IF: 6,973
*equal contribution

● CONFERENCES AND POSTERS

Current number: 35

Featured presentations:

Paradžik M, Vitković Z, Humphries JD, Dekanić A, Stojanović N, Humphries MJ, Ambriović-Ristov A.
Proteomic analysis of integrin α V-dependent adhesion complex in triple negative breast cancer cell line MDA-MB-231 // Libri oncologici /
Zagreb: Clinic for tumors, 2018. pp. 41-41 (poster, international peer review)

Paradžik M, Humphries JD, Nestić D, Majhen D, Dekanić A, Stojanović N, Sedda D, Samaržija I, Weber I, Humphries MJ, Ambriović-Ristov A. **Characterisation of integrin α V-dependent adhesome in melanoma cell line MDA-MB-435S** // Libri oncologici /
Zagreb, Clinic for tumors, 2018. pp. 71-71 (poster, international peer review)

Paradžik M, Humphries JD, Nestić D, Majhen D, Dekanić A, Stojanović N, Sedda D, Weber I, Humphries MJ, Ambriović-Ristov A.
Characterisation of the integrin alpha v-dependent adhesome in mda-mb-435s melanoma cells // ESMO Open Abstracts of the 25th Biennial Congress of the European Association for Cancer Research/ Amsterdam, BMJ Publishing Group Limited, 2018. pp. A100-A100 (poster, international peer review)

Stojanović N, Dekanić A, Paradžik M, Majhen D, Ferenčak K, Ruščić J, Bardak I, Supina C, Tomicic MT, Christmann M et al.
Differential effects of integrin α v knockdown and cilengitide on sensitisation of triple-negative breast cancer and melanoma cells to microtubule poisons // Libri oncologici / Zagreb, Clinic for tumors, 2018. pp. 83-83 (poster, international peer review)

Dekanić A, Paradžik M, Stojanović N, Steiner I, Tomičić, MT, Osmak M, Ambriović-Ristov A.
Chemosensitisation to microtubule poisons and decreased migration of human melanoma cell lines by silencing of integrin α v // Libri oncologici / Zagreb, KBC Sestre milosrdnice, Clinic for tumors, 2016. pp. 52-52 (poster, national peer review)

List of all conference abstracts is publicly available on website of Croatian scientific bibliography (<https://www.bib.irb.hr/>)

● **PROJECTS**

01/2021 – CURRENT

Ministry of tourism and sport

Approved tenders for co-financing of sports/tourism projects, total value HRK 220,000.00. Role: writing and project management

01/01/2020 – CURRENT

Erasmus+ sport

Head coordinator of the international EU project within the Erasmus + Sport program (project 622286-Be (ach) Volunteer, Be (ach) Fair!). The mentioned project with a total value of 59.900,00 € was carried out in cooperation with Dutch, Slovenian and Polish partners. Role: Coordinating and writing a project proposal.

2018 – 2019

Central state office for sport

Realized tenders (2) for the promotion of local sports, tendered by SDUŠ, total value HRK 240,000.00. Role: writing and project management

2018

Croatian national tourist board

Support for the development of tourist facilities in the field of pre-season sports in the amount of HRK 15,000.00. Role: writing and implementation of a project.

2017 – 2020

City of Zagreb

Conducted projects in the field of prevention of unacceptable behavior of children. Role: writing and project management

● **ORGANISATIONAL SKILLS**

Organizational / management skills

In addition to participating in the preparation of theses as an indirect leader, within the volunteering and off the duty tasks in sports activities, I am the head of the organizing committee of about 30 people who take care of the overall organization of events and competitions (including accommodation, transportation, catering for about 300 participants and the schedule of games and tasks).

● **OTHER SKILLS AND COMPETENCES**

2017 – CURRENT

Croatian national beach handball team - head coach

2015 – 2018

Croatian youth national beach handball team-head coach

2008 – 2014

First category athlete

Croatian first category athlete issued by the Croatian Olympic Committee, based on the results in beach handball: World champion (2008.), European champion (2009., 2011., 2013.)

2006 – CURRENT

Academic beach handball club Zagreb - Secretary
