

# Curriculum Vitae

Margit Balázs

Date of birth: 09/11/1952

Academic degree and qualification : MSc/chemist/1976  
PhD in molecular cell biology 1995  
DSC in molecular genetics 2003

## Present workplace:

University of Debrecen Medical and Health Science Centre, Faculty of Public Health,  
Department of Preventive Medicine, Division of Biomarker Analysis

Present position: dean of Faculty of Public Health,  
full professor, head of the Division of Biomarker Analysis

**Scientific degree and discipline** CSc/PhD/1995  
DSc /2003 (Doctor of sciences Hungarian Academy of  
Science: Theoretical Medical Sciences)

Title of thesis: CSc “ *Role of the structure and dynamics of cell membrane in the early stage of signal transduction*”. (No.:15.67; date: 01/02/1995)  
DSc „*Investigation of genomic alterations during tumor progression using in situ hybridization techniques*”. (No;4.209, date 26/09/2003.)

**Membership in academies** (member/doctor of Hungarian Academy of Science; “dr. habil”; etc. and its date):

Dr. habil: University of Debrecen (2003) theoretical medical science

## Awards:

Pro Scientia tutor	1993
Széchenyi Award for Professors	1998-2002
István Széchenyi Award	2002-2005
“Mester Tanár Aranyérem”	
(National Council of Students' Scientific Committee)	2007

## Educational activities:

### Graduate education

- Biophysics (seminars, lectures for medical students 1988-1995)
- Preventive medicine and public health (lectures, exams for medical students, 1996-present)
- Basic oncology (course leader, lectures, exams for medical students, 2000-present)
- Molecular biology (lectures, practices for molecular biologist 2000-present)

- Research methodologies (lectures for MSc students 2008-present)
- Genetics for BSc and MSc student (lectures 2008- present)

### **Postgraduate education**

- The use of molecular biological techniques in epidemiological studies (course leader, 2000-present)
- Genetic epidemiology (lecturer, 2002-present)
- The basics of fluorescence in situ hybridization (course leader, PhD course 1996-)
- Array comparative genomic hybridization and the use in clinical diagnosis (course leader, PhD course 2005-)
- supervisor of PhD students

### **Relevant work experience and achievements:**

Investigation of genetic alterations associated with tumor progression in order to identify molecular genetic markers that might be targets for cancer diagnosis and therapeutics.

- molecular mechanisms of tumor invasion and progression, description of genetic alterations in early-stage lesions, identification of invasion specific genetic markers.
- molecular alterations associated with metastasis formation, early detection of alterations that might help to predict metastatic behavior of primary tumors.

### ***Research and training development projects principal investigator/project leader/participant (last 10 years):***

1. OTKA 032587, (2000-2003) 17.000.000 HUF „Analysis of genetic instability and clonal progression of human melanomas using molecular genetic techniques”. (Humán melanómák genetikai instabilitásának és klonális progressziójának tanulmányozása molekuláris genetikai módszerekkel) (project leader: Margit Balázs).
2. ETT 58/2000 (2000-2002) 3.000.000 HUF „Correlation between genetic alterations and clinicopathological parameters of solid tumors”. (Szolid tumorok genetikai eltérései és kliniko-patológiai paramétereinek közötti összefüggések tanulmányozása) (project leader: Margit Balázs).
3. „Hungarian Association Against Cancer” (2002-2003) 1.700.000 HUF „The role of chromosome 7 alterations during melanoma progression”. (A 7-es kromoszóma eltéréseinek elemzése a melanoma progresszió során) (project leader: Margit Magyar Rákellenes Liga, Balázs).
4. ETT 376/2003, (2003-2006) 3.000.000 HUF „Investigation of the association chromosome 7 gene alterations in melanoma progression using in situ hybridization techniques”. „A 7-es kromoszómán megfigyelt genetikai eltérések és humán melanómák progressziója közötti kapcsolat tanulmányozása in situ hibridizációs módszerekkel” (project leader: Margit Balázs).
5. NKFP 1B/0013/2002, (2002-2005) „Public health research to reduce premature mortality and improve health status in the Hungarian population”. (Népegészségügyi kutatások a magyar lakosság korai halálozásának csökkentése és egészségi állapotának javítása érdekében) (project leader: Dr. Ádány Róza, subproject coordinator: Margit Balázs).
6. Jedlik Ányos Research Development Project 1/003/2005 „Prevention of the most important public health diseases” (A népegészségügyi szempontból legjelentősebb

- népbetegségek megelőzési lehetőségei) (project leader: Róza Ádány, subproject coordinator: Margit Balázs: 20.000.000 HUF).
7. OTKA T 048750, 17.200.000 HUF eFt, 2005-2008, címe: „Investigation of genomic alterations and gene expression changes in human melanomas, search for metastasis related genetic markers” Genomiális eltérések és génexpresszió vizsgálata, melanomák metasztázisképzésére jellemző genetikai markerek kutatása (project leader: Margit Balázs).
  8. OTKA OTKA T 75191 2008-2012, 24.000.000 HUF eFt, The prognostic and biological role of gene amplifications in malignant melanomas (Gén amplifikációk prognosztikai és biológiai jelentősége humán melanomákban) (project leader: Margit Balázs).
  9. TÁMOP-4.2.1/B-09/1/KONV-2010-0007 2010-2012 20.000.000 HUF eFt Genetic markers and tumor progression (subproject coordinator: Margit Balázs)
  10. FKFP-0117/2002 2002-2004, 6.000.000 HUF eFt Health Sciences doctoral school („Egészségtudományok” doktori iskola működtetése (participant)
  11. JAP-10/02 2005-2007, 3.445.000 HUF eFt Investigation of genetic changes during macrophage differentiation and activation „Tumor asszociált makrofágok morfológiai, genetikai és funkcionális változásai” (participant)
  12. 2006TKI247 ” 2007-2011, 17.000.000 HUF eFt/év Hungarian Academy of Sciences Research group of Public Health Magyar Tudományos Akadémia Támogatott Kutatóhelyek Irodája: „Népegészségügyi kutatások az ország gazdasági versenyképességét növelő, bizonyítékokon alapuló egészségpolitika támogatására (subproject coordinator: Margit Balázs)
  13. TÁMOP-4.2.2.A-11/1/KONV Identification of Disease Related Genes in the Hungarian Population; IGEN-HUNGARIAN 2012-1015 895.000.00 HUF(alproject leader: Margit Balázs)
  14. OTKA-112327 Osteopontin: Role in cellular signalling and melanoma progression 2015-2018, 27 MFt, (project leader: Margit Balázs)
  15. GINOP-2.3.2-15-2016-00005 project Increasing the competitiveness of the Hungarian economy by improving the health status of the population. The project is co-financed by the European Union and the European Regional Development Fund 1,464,321,000,000 HUF 2016- 2020 (WP2 workpackage leader: Margit Balázs)

#### **Membership in professional associations, international relations:**

American Association for Cancer Research (1988-present)  
 European Association for Cancer Research (1987- present)  
 Invited Reviewer EU projects Brussels (1999, 2000, 2002, 2003)  
 International Society for Analytical Cytology (member of the Membership Committee 2004-present) The Melanoma Molecular Map Project (member of the Scientific Advisory Board 2007- present)  
 International Journal of Clinical and Experimental Pathology (Member of the Editorial Board 2007-present)  
 Cytometry Part A (Member of the Editorial Board 2007-present)  
 2009- International Journal of Clinical and Experimental Pathology szerkesztőbizottsági tagja  
 2008-2011 OTKA Kísérletes Orvostudomány zsűri tag  
 2012- Magyar Akkreditációs Bizottság Orvostudományi bizottságának tagja

## English language skills:

- proficiency-level language exam (type, issuing institute, date):  
state exam of intermediate level in English “Állami nyelvizsga bizottság: 1986”
- at least 6 months of teaching, or at least 1 year of documented study experience in an English-speaking country:

1987	<i>visiting fellow</i> "University of California, San Francisco, Department of Laboratory Medicine" USA, (Dr.Mack Fulwyler) 6 weeks
1988-1990	<i>visiting scientist</i> "University of California, San Francisco, Department of Lab Medicine" USA, (Dr. Fred Waldman): 27 month
1991	<i>visiting scientist</i> Stanford Research Institute, Molecular Biology Laboratorium, USA, (Dr.Robert Sutherland): 2 month
1993-1994	<i>visiting professor</i> "University of California, San Francisco, Cancer Center, USA, (Frederic Waldman): 15 month
1997	"University of California, San Francisco, Medicine" Dept. of Molecular Cytometry, USA, (Dr. Frederic Waldman) 1 month
1998	participation ont he "Genetic Epidemiology" course, London School of Hygiene and Tropical Medicine, United Kingdom, 5 weeks

## List of publications: ONLINE

[https://vm.mtmt.hu/search/slist.php?nwi=1&inited=1&ty\\_on=1&url\\_on=1&cite\\_type=2&orderby=3D1a&location=mtmt&stn=1&AuthorID=10000801&Scientific](https://vm.mtmt.hu/search/slist.php?nwi=1&inited=1&ty_on=1&url_on=1&cite_type=2&orderby=3D1a&location=mtmt&stn=1&AuthorID=10000801&Scientific)

### Margit Balázs's List of Publications

#### SUMMARY OF PUBLICATIONS PARAMETERS

<b>number of publication:</b>	<b>95</b>
<b>independent citations:</b>	<b>1 697</b>
<b>commulative impact factor (IF):</b>	<b>249,728</b>

2017

- Vizkeleti L, Kiss T, Koroknai V, Ecsedi S, Papp O, Szasz I, Adany R, Balazs M  
1. Altered integrin expression patterns shown by microarray in human cutaneous melanoma. MELANOMA RESEARCH &: p. 1. (2017)

2016

- Koroknai V, Ecsedi S, Vizkeleti L, Kiss T, Szasz I, Lukacs A, Papp O, Adany R, Balazs M  
2. Genomic profiling of invasive melanoma cell lines by array comparative genomic hybridization. MELANOMA RESEARCH 26:(2) pp. 100-107. (2016)

## 2015

- Balazs M, Vizkeleti L, Ecsedi S, Adany R, Raso E, Hegedus B, Ladanyi A, Tovari J, Timar J
3. Hazai melanomakutatások: reményt kelto eredmények egy korábban reménytelen daganatban. *MAGYAR ONKOLÓGIA* 59:(4) pp. 275-281. (2015)
- Kiss T, Ecsedi S, Vizkeleti L, Koroknai V, Emri G, Kovacs N, Adany R, Balazs M
4. The role of osteopontin expression in melanoma progression. *TUMOR BIOLOGY* 36:(10) pp. 7841-7847. (2015)

## 2014

- Szaloki G, Krasznai ZT, Toth A, Vizkeleti L, Szollosi AG, Trencsenyi G, Lajtos I, Juhász I, Krasznai Z, Marian T, Balazs M, Szabo G, Goda K
- The Strong In Vivo Anti-Tumor Effect of the UIC2 Monoclonal Antibody Is the Combined Result of Pgp Inhibition and Antibody Dependent Cell-Mediated Cytotoxicity. *PLOS ONE* 9:(9) p. e107875. (2014)
1. Mezey G, Treszl A, Schally AV, Block NL, Vízkeleti L, Juhász A, Klekner A, Nagy J, Balázs M, Halmos G, Bognár L.: Prognosis in human glioblastoma based on expression of ligand growth hormone-releasing hormone, pituitary-type growth hormone-releasing hormone receptor, its splicing variant receptors, EGF receptor and PTEN genes. *J Cancer Res Clin Oncol.* 2014 Jun 1. [Epub ahead of print]  
IF: 4,016\*
  1. Töröcsik D, Bárdos H, Hatalyák Zs, Dezső B, Losonczy G, Paragh L, Péter Z, Balázs M, Remenyik É, Ádány R.: Detection of factor XIII-A is a valuable tool for distinguishing dendritic cells and tissue macrophages in granuloma annulare and necrobiosis lipoidica ***JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY*** x: p. xx. (2014)
  1. Ecsedi S, Hernandez-Vargas H, Lima SC, Vizkeleti L, Toth R, Lazar V, Koroknai V, Kiss T, Emri G, Herceg Z, Adany R, Balazs M.: DNA methylation characteristics of primary melanomas with distinct biological behaviour. ***PLOS ONE*** 9:(5) p. e96612. (2014)  
IF: 4,016\*

## 2013

1. Rakosy Z, Ecsedi S, Toth R, Vizkeleti L, Hernandez-Vargas H, Lazar V, Emri G, Szatmari I, Herceg Z, Adany R, Balazs M. Integrative genomics identifies gene signature associated with melanoma ulceration. ***PLoS One.*** 2013;8(1):e54958. doi: 10.1371/journal.pone.0054958. Epub 2013 Jan 30.  
IF: 4,016\*
2. Ecsedi Sz, Hernandez-Vargas H, Lima CS, Herceg Z, Ádány R, Balázs M.: Transposable hypomethylation is associated with metastatic capacity of primary melanomas. ***INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL PATHOLOGY*** 6:(12) pp. 2943-2948. (2013)  
IF: 4,016\*

## 2012

1. Vizkeleti L, Ecsedi S, Rakosy Z, Orosz A, Lazar V, Emri G, Koroknai V, Kiss T, Adany R, Balazs M The role of CCND1 alterations during the progression of cutaneous malignant melanoma ***TUMOR BIOLOGY*** 33:(6) pp. 2189-2199. (2012)

IF: 2.143\*

2. Vízkeleti L, Ecsedi Sz, Rákósy Zs, Bégány Á, Emri G, Toth R, Orosz A, Szöllősi AG, Méhes G, Ádány R, Balázs M.: Prognostic relevance of the expressions of CAV1 and TES genes on 7q31 in melanoma **FRONTIERS IN BIOSCIENCE 4**: pp. 1802-1812. (2012)  
IF: 3.520\*
3. Lázár Viktória, Ecsedi Szilvia, Vízkeleti Laura, Rákósy Zsuzsa, Boross Gábor, Szappanos Balázs, Bégány Ágnes, Emri Gabriella, Ádány Róza, Balázs M.: Marked genetic differences between BRAF and NRAS mutated primary melanomas as revealed by array comparative genomic hybridization **MELANOMA RESEARCH 22**: pp. 202-214. (2012)  
IF: 2.187\*
4. Ecsedi S, Tóth L, Balázs M  
Array CGH analysis of the rare laryngeal basaloid squamous cell carcinoma - a case report **INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL PATHOLOGY 5**:(8) pp. 834-839. (2012)  
IF: 1.893\*

## 2011

6. Kitoh Y, Saio M, Gotoh N, Umemura N, Nonaka K, Bai J, Vízkeleti L, Torocsik D, Balázs M, Adány R, Takami T.: Combined GM-CSF treatment and M-CSF inhibition of tumor-associated macrophages induces dendritic cell-like signaling in vitro **INTERNATIONAL JOURNAL OF ONCOLOGY 38**:(5) pp. 1409-1419. (2011) IF: 2.399  
Independent citations: 1 All citations: 1
7. Balázs M, Ecsedi Sz, Vízkeleti L, Bégány Á.: Genomics of human malignant melanoma In: Yohei Tanaka (ed.) Breakthroughs in Melanoma Research. Rijeka: InTech, 2011. pp. 237-263. (Melanoma/Book 1) (ISBN:978-953-307-291-3)  
Chapter in Book/Study/Scientific

## 2010

8. Töröcsik D, Szeles L, Paragh Gy Jr, Rákósy Zs, Bárdos H, Nagy L, Balázs M, Inbal A, Ádány R Factor XIII-A is involved in the regulation of gene expression in alternatively activated human macrophages **THROMBOSIS AND HAEMOSTASIS 104**:(4) pp. 709-717. (2010)  
IF: 4.701
9. Barok M, Balázs M, Lázár V, Rákósy Zs, Tóth E, Treszl A, Vereb G, Colbern G T, Park J W, Szöllősi J.: Characterization of a novel, trastuzumab resistant human breast cancer cell line **FRONTIERS IN BIOSCIENCE 1**:(2) pp. 627-640. (2010)  
IF: 4.048

## 2009

10. Lázár V, Ecsedi S, Szöllősi A G, Tóth R, Vízkeleti L, Rákósy Z, Bégány A, Ádány R, Balázs M.: Characterization of candidate gene copy number alterations in the 11q13 region along with BRAF and NRAS mutations in human melanoma **MODERN PATHOLOGY 22**: pp. 1367-1378. (2009)  
IF: 4.406
11. Juhász A, Sziklai I, Rákósy Z, Ecsedi S, Ádány R, Balázs M.: Elevated level of tenascin and matrix metalloproteinase 9 correlates with the bone destruction capacity of cholesteatomas **OTOLOGY & NEUROTOLOGY 30**:(4) pp. 559-565. (2009)  
IF: 1.435
12. Balázs M.: Single-cell comparative genomic hybridization analysis of micronucleated cells **CYTOMETRY PART A 75**:(5) pp. 557-559. (2009)  
IF: 3.032

## 2008

13. Umemura N, Saio M, Suwa T, Kitoh Y, Bai J, Nonaka K, Ouyang GF, Okada M, Balazs M, Adany R, Shibata T, Takami T.: Tumor-infiltrating myeloid-derived suppressor cells are pleiotropic-inflamed monocytes/macrophages that bear M1- and M2-type characteristics. **JOURNAL OF LEUKOCYTE BIOLOGY** **83**:(5) pp. 1136-1144. (2008)  
IF: 4.605
14. Rakosy Z, Vizkeleti L, Ecsedi S, Begany A, Emri G, Adany R, Balazs M.: Characterization of 9p21 copy number alterations in human melanoma by fluorescence in situ hybridization. **CANCER GENETICS AND CYTOGENETICS** **182**:(2) pp. 116-121. (2008)  
IF: 1.482
15. Nonaka K, Saio M, Suwa T, Frey AB, Umemura N, Imai H, Ouyang GF, Osada S, Balazs M, Adany R, Kawaguchi Y, Yoshida K, Takami T.: Skewing the Th cell phenotype toward Th1 alters the maturation of tumor-infiltrating mononuclear phagocytes. **JOURNAL OF LEUKOCYTE BIOLOGY** **84**:(3) pp. 679-688. (2008)  
IF: 4.605
16. Kovacs T, Bekesi G, Fabian A, Rakosy Z, Horvath G, Matyus L, Balazs M, Jenei A.: DNA flow cytometry of human spermatozoa: consistent stoichiometric staining of sperm DNA using a novel decondensation protocol. **CYTOMETRY PART A** **73**:(10) pp. 965-970. (2008)  
IF: 3.259
17. Ecsedi S, Rakosy Z, Vizkeleti L, Juhasz A, Sziklai I, Adany R, Balazs M.: Chromosomal imbalances are associated with increased proliferation and might contribute to bone destruction in cholesteatoma. **OTOLARYNGOLOGY-HEAD AND NECK SURGERY** **139**:(5) pp. 635-640. (2008)  
IF: 1.409
18. Barok M, Balazs M, Nagy P, Rakosy Z, Treszl A, Toth E, Juhasz I, Park JW, Isola J, Vereb G, Szollosi J.: Trastuzumab decreases the number of circulating and disseminated tumor cells despite trastuzumab resistance of the primary tumor **CANCER LETTERS** **260**:(1-2) pp. 198-208. (2008)  
IF: 3.504

## 2007

19. Szekvolgyi L, Rakosy Z, Balint LB, Kokai E, Imre L, Vereb G, Bacso Z, Goda K, Varga S, Balazs M, Dombradi V, Nagy L, Szabo G  
Ribonucleoprotein-masked nicks at 50-kbp intervals in the eukaryotic genomic DNA  
**PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA** **104**:(38) pp. 14964-14969. (2007)  
IF: 9.598
20. Rakosy Z, Vizkeleti L, Ecsedi S, Voko Z, Begany A, Barok M, Krekk Z, Gallai M, Szentirmay Z, Adany R, Balazs M  
EGFR gene copy number alterations in primary cutaneous malignant melanomas are associated with poor prognosis.  
**INTERNATIONAL JOURNAL OF CANCER** **121**:(8) pp. 1729-1737. (2007)  
IF: 4.555

## 2006

21. Treszl A, Ladanyi A, Rakosy Z, Buczko Z, Adany R, Balazs M.: Molecular cytogenetic

characterization of a novel cell line established from a superficial spreading melanoma.  
**FRONTIERS IN BIOSCIENCE 11:** pp. 1844-1853. (2006)  
IF: 2.771

22. Feher LZ, Balazs M, Kelemen JZ, Zvara A, Nemeth I, Varga Orvos Z, Puskas LG.. Improved DOP-PCR-based representational whole-genome amplification using quantitative real-time PCR  
**DIAGNOSTIC MOLECULAR PATHOLOGY 15:** pp. 43-48. (2006)  
IF: 1.757
23. Adam B, Toth L, Pasti G, Balazs M, Adany R.: Contact stimulation of fibroblasts for tenascin production by melanoma cells. **MELANOMA RESEARCH 16:**(5) pp. 385-391. (2006)  
IF: 1.704

## 2005

24. Vereb G, Feuerstein B G, Hyun W C, Fulwyler M J, Balazs M, Szollosi J  
Biphasic calcium response of platelet-derived growth factor stimulated glioblastoma cells is a function of cell confluence  
**CYTOMETRY PART A 67A:**(2) pp. 172-179. (2005)  
IF: 2.115
25. Toida M, Balazs M, Treszl A, Rakosy Z, Kato K, Yamazaki Y, Matsui T, Suwa T, Hatakeyama D, Makita H, Mori S, Yamashita T, Shibata T, Adany R  
Analysis of ameloblastomas by comparative genomic hybridization and fluorescence in situ hybridization.  
**CANCER GENETICS AND CYTOGENETICS 159:**(2) pp. 99-104. (2005)  
IF: 1.640
26. Mehes L, Balazs M, Rejto L, Telek B, Kiss A, Udvardy M  
Chromosomal aberrations and CD38 expression in two siblings with B-cell chronic lymphocytic leukemia: a report of two siblings.  
**LEUKEMIA & LYMPHOMA 46:**(3) pp. 421-423. (2005)  
IF: 1.295
27. Juhasz A, Balazs M, Sziklay I, Rakosy Z, Treszl A, Repassy G, Adany R  
Chromosomal imbalances in laryngeal and hypopharyngeal cancers detected by comparative genomic hybridization.  
**CYTOMETRY PART A 67:**(2) pp. 151-160. (2005)  
IF: 2.115

## 2004

28. Treszl A, Adany R, Rakosy Z, Kardos L, Begany A, Gilde K, Balazs M.: Extra copies of c-myc are more pronounced in nodular melanomas than in superficial spreading melanomas as revealed by fluorescence in situ hybridisation. **CYTOMETRY PART B-CLINICAL CYTOMETRY 60B:**(1) pp. 37-46. (2004)  
IF: 1.438
29. Toth G, Schlamadinger J, Aradi J, Antal-Szalmás P, Sipka S, Balazs M, Kovacs P, Feher Z, Falus A.: A DNA uptake-stimulating protein increases the antiproliferative effect of c-myc antisense oligonucleotide on leukemic cells **CELL BIOLOGY INTERNATIONAL 28:**(11) pp. 817-823. (2004)



2001

30. Zakany R, Bako E, Felszeghy S, Hollo K, Balazs M, Bardos H, Gergely P, Modis L.: Okadaic acid-induced inhibition of protein phosphatase 2A enhances chondrogenesis in chicken limb bud micromass cell cultures. **ANATOMY AND EMBRYOLOGY** **203**:(1) pp. 23-34. (2001)  
IF: 1.754
31. Toida M, Balazs M, Mori T, Ishimaru JI, Ichihara H, Fujitsuka H, Hyodo I, Yokoyama K, Tatematsu N, Adany R.: Analysis of genetic alterations in salivary gland tumors by comparative genomic hybridization  
**CANCER GENETICS AND CYTOGENETICS** **127**:(1) pp. 34-37. (2001)  
IF: 1.529
33. Imre S, Csornai M, Balazs M  
High sensitivity to autoxidation in neonatal calf erythrocytes: possible mechanism of accelerated cell aging.  
**MECHANISMS OF AGEING AND DEVELOPMENT** **122**:(1) pp. 69-76. (2001)  
IF: 1.841
34. Balazs M, Adam Z, Treszl A, Begany A, Hunyadi J, Adany R  
Chromosomal imbalances in primary and metastatic melanomas revealed by comparative genomic hybridization  
**CYTOMETRY** **46**:(4) pp. 222-232. (2001)  
IF: 2.220

2000

35. Toth L, Pasti G, Sarvary A, Balazs M, Adany R.: Effect of tumor-conditioned medium on intercellular communication and proliferation of Balb/c 3T3 cells  
**CANCER LETTERS** **151**:(1) pp. 57-61. (2000)  
IF: 1.517
37. Nagy M, Balazs M, Adam Z, Petko Z, Timar B, Szereday Z, Laszlo T, Warnke R A, Matolcsy A  
Genetic instability is associated with histological transformation of follicle center lymphoma  
**LEUKEMIA** **14**:(12) pp. 2142-2148. (2000)  
IF: 3.736
38. Muratoglu S, Krysan K, Balazs M, Sheng H, Zakany R, Modis L, Kiss I, Deak F  
Primary structure of human matrilin-2, chromosome location of the MATN2 gene and conservation of an AT-AC intron in matrilin genes.  
**CYTOGENETICS AND CELL GENETICS** **90**:(3-4) pp. 323-327. (2000)  
IF: 1.409
39. Goda K, Nagy H, Bene L, Balazs M, Arceci R, Mechetner E, Szabo G  
Conformational heterogeneity of P-glycoprotein  
**CANCER DETECTION AND PREVENTION** **24**:(5) pp. 415-421. (2000)  
IF: 1.258
40. Gal I, Varga T, Szilagyi I, Balazs M, Schlammadinger J, Szabo G Jr  
Protease-elicited TUNEL positivity of non-apoptotic fixed cells.  
**JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY** **48**:(7) pp. 963-970. (2000)  
IF: 2.610
41. Damjanovich J, Ádány R, Berta A, Beck Z, Balázs M  
Mutation of the RB1 gene caused unilateral retinoblastoma in early age  
**CANCER GENETICS AND CYTOGENETICS** **119**:(1) pp. 1-7. (2000)  
IF: 1.625

42. Adam Z, Adany R, Begany A, Hunyadi J, Balazs M:: Patterns of chromosomal alterations in primary and metastatic human melanomas  
**CYTOMETRY 42:** p. 141. (2000)
43. Adam Z, Adany R, Ladanyi A, Timar J, Balazs M:: Liver metastatic ability of human melanoma cell line is associated with losses of chromosomes 4, 9p21-pter and 10p **CLINICAL & EXPERIMENTAL METASTASIS 18:**(4) pp. 295-302. (2000)  
IF: 1.845

#### 1999

44. Balazs M, Adam Z, Begany A, Takruri AT, Adany R  
Involvement of chromosome losses in the progression and metastasis formation of a human malignant melanoma  
**CANCER GENETICS AND CYTOGENETICS 109:**(2) pp. 114-118. (1999)  
IF: 1.756
45. Adany R, Bardos H, Balogh I, Becski A, Pasti G, Szucs S, Balazs M, Antal M, Modis L  
Changes in the expression and the intracellular distribution of factor XIII subunit A during the differentiation of human monocytes into macrophages: 1774  
**THROMBOSIS AND HAEMOSTASIS Supplementum:** p. 564. (1999)

#### 1998

46. Szucs S, Vamosi G, Poka R, Sarvary A, Bardos H, Balazs M, Toth L, Kappelmayer J, Szollosi J, Adany R  
Single-cell measurement of granulocyte respiratory burst with digital imaging fluorescence microscopy  
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