

## BERGMANN Michael

### Publication list since 2000

#### Originals, First/Last/Corresponding

2018

Laengle J, Stift J, Beer A, Bilecz A, Hegedus B, Wolf B, Stremitzer S, Starlinger P, Tamandl D, Pils D, **Bergmann MM**. DNA damage and ER stress response predicts prognosis and treatment response in bevacizumab-based neoadjuvant-treated patients with colorectal liver metastasis undergoing liver resection, *Theranostics*, in press IF 8.8

Balber T, Singer J, Berroterán-Infante N, Dumanic M, Fetty L, Fazekas-Singer J, Vranka C, Nics L, **Bergmann M**, Pallitsch K, Spreitzer H, Wadsak W, Hacker M, Jensen-Jarolim E, Viernstein H and Mitterhauser M. Preclinical in vitro and in vivo evaluation of [<sup>18</sup>F]FE@SUPPY for cancer PET-imaging: Limitations of a xenograft model for colorectal cancer. *Contrast Media and Molecular Imaging* 2018

[<sup>18</sup>F]FEPPA: Improved Automated Radiosynthesis, Binding Affinity, and Preliminary in Vitro Evaluation in Colorectal Cancer. Berroterán-Infante N, Balber T, Furlinger P, **Bergmann M**, Lanzenberger R, Hacker M, Mitterhauser M, Wadsak W. *ACS Med Chem Lett*. 2018 Feb 21;9(3):177-181.

Reshaping a multimode laser beam into a constructed Gaussian beam for generating a thin light sheet. Saghafi S, Haghi-Danaloo N, Becker K, Sabdyusheva I, Foroughipour M, Hahn C, Pende M, Wanis M, **Bergmann M**, Stift J, Hegedus B, Dome B, Dodt HU. *J Biophotonics*. 2018 Feb 19. doi: 10.1002/jbio.201700213.

Prognostic value of preoperative neutrophil-to-lymphocyte ratio in Crohn's disease. Argeny S, Stift A, **Bergmann M**, Mittlböck M, Maschke S, Yang Y, Chitsabesan P, Riss S. *Wien Klin Wochenschr*. 2018 Feb 12. doi: 10.1007/s00508-018-1322-3.

2017

Kuznetsova I, Arnold T, Aschacher T, Schwager C, Hegedus B, Garay T, Pleschka S, Egorov A, **Bergmann M**. Targeting an oncolytic influenza A virus to tumor tissue by elastase. *Mol Ther Oncolytics*. 2017 Sep 8;7:37-44.

Hock K, Laengle J, Kuznetsova I, Egorov A, Hegedus B, Dome B, Wekerle T, Sachet M, **Bergmann M**. Oncolytic influenza A virus expressing interleukin-15 decreases tumor growth in vivo. *Surgery*. 2017 Mar;161(3):735-746 IF 3.9

Holzlechner M, Strasser K, Zareva E, Steinhäuser L, Birnleitner H, Beer A, Bergmann M, Oehler R, Marchetti-Deschmann M. In Situ Characterization of Tissue-Resident Immune Cells by MALDI Mass Spectrometry Imaging. *J Proteome Res*. 2017 Jan 6;16(1):65-76. IF 4,2

Thannesberger J, Hellinger HJ, Klymiuk I, Kastner MT, Rieder FJJ, Schneider M, Fister S, Lion T, Kosulin K, Laengle J, **Bergmann M**, Rattei T, Steininger C. Viruses comprise an extensive pool of mobile genetic elements in eukaryote cell cultures and human clinical samples. *FASEB J*. 2017 May;31(5):1987-2000 IF 5.3

Miller A, Nagy C, Knapp B, Laengle J, Groeger M, Starkl P, **Bergmann M**, Wagner O and Haschemi A. Metabolic configurations of single cells within complex tissue microenvironments. *Cell Metabolism* 2017 Nov 7;26(5):788-800 IF 18.2

Hofer P, Hagmann M, Brezina S, Dolejsi E, Mach K, Leeb G, Baierl A, Buch S, Sutterlüty-Fall H, Karner-Hanusch J, **Bergmann MM**, Bachleitner-Hofmann T, Stift A, Gerger A, Rötzer K, Karner J, Stättner S, Waldenberger M, Meitinger T, Strauch K, Linseisen J, Gieger C, Frommlet F, Gsur A. Bayesian and frequentist analysis of an Austrian genome-wide association study of colorectal cancer and advanced adenomas. *Oncotarget*. 2017 Oct 9;8(58):98623-98634. doi: 10.18632/oncotarget.21697.

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Aschacher T, Wolf B, Enzmann F, Kienzl P, Messner B, Sampl S, Svoboda S, Mechtcheriakova D, Holzmann K and **Bergmann M** LINE-1 induces hTERT and ensures telomere maintenance in tumour cell lines. *Oncogene*. 2016 Jan 7;35(1):94-104. IF 8.6

Aschacher T, Krokhn A, Kuznetsova I, Längle J, Nebolsin V, Egorov A, **Bergmann M**. Effect of the antiviral drug Ingavirin® (Imidazolyl ethanamid pentandioic acid) on the interferon status of cell under conditions of viral infection. *Epidemiology and Infectious Diseases* 2016, 21(4)

Rieder FJ, Gröschel C, Kastner MT, Kosulin K, Laengle J, Zadnikar R, Marculescu R, Schneider M, Lion T, **Bergmann M**, Kallay E, Steininger C. Human cytomegalovirus infection downregulates vitamin-D receptor in mammalian cells. *J Steroid Biochem Mol Biol*. 2016 Aug 9. pii: S0960-0760(16)30217-5. IF 4.0

Exner R, Sachet M, Arnold T, Zinn-Zinnenburg M, Michlmayr A, Dubsky P, Bartsch R, Steger G, Gnant M, **Bergmann M**, Bachleitner-Hofmann T, Oehler R. Prognostic value of HMGB1 in early breast cancer patients under neoadjuvant chemotherapy. *Cancer Med*. 2016:2350-8. IF 2.9

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Schweiger T, Nikolowsky C, Starlinger P, Traxler D, Zimmermann M, Birner P, Hegedüs B, Dome B, **Bergmann M**, Mildner M, Klepetko W, Hoetzenecker K, Ankersmit HJ. Stromal expression of heat-shock protein 27 is associated with worse clinical outcome in patients with colorectal cancer lung metastases. *PLoS One*. 2015 Mar 20;10(3):e0120724. IF 3.1

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#### **Guidelines, Book chapter, Invited Comments and Reviews, Articles in Med. Popular Press**

Primas C, Vogelsang H, **Bergmann M**. Morbus Crohn - Was erwartet der Kliniker von der Radiologie. *Der Radiologe.* in press

Müller K, Wolf B, Aschacher T, **Bergmann M**. Line-1 and Telomeres. *Frontiers in Bioscience* 2018 Jan 1;23:1310-1319 IF 3.9

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Nowikowsky K, **Bergmann M**. Autophagy regulates apoptosis on the level of the death inducing signaling complex. *FEBS J* 284 (2017): 1967-69 IF 4,2

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**Bergmann M** and Sautner T. Immunologische Nebenwirkungen von Katecholaminen. *Intensiv-News* 2002; 6 (2):4-5.

**Bergmann M** and Sautner T. Immunomodulatory effects of vasoactive catecholamines. *Wiener Klinische Wochenzeitschrift. Wien Klin Wochenschr.* 2002; Sep 30;114(17-18):752-

## Patents

1) Genetically engineered attenuated viruses  
Patent Numbers PCT/US93/03615 filed Dec 1994, US Patent 6,022,726 issued Feb 2000  
Assignee: MOUNT SINAI MEDICAL SCHOOL, NEW YORK  
Inventor(s): PALESE P, ENAMI M, MUSTER T, **BERGMANN M**..

2) New reassortant influenza-A virus comprising gene segments of seasonal or pandemic strain origin, a polymerase basic protein-1 gene segment, and a polymerase gene segment, useful e.g. as vaccine to prevent influenza virus infection Patent Number(s): WO2010070098-A1, Publ. Date: 24-Jun-2010,  
Assignee: AVIR GREEN HILLS BIOTECHNOLOGY RES DEV  
Inventor(s): **BERGMANN M**; EGOROV A; MUSTER T, ROETHLE E, ROMANOVA J, WOLSCKEK M

3) New replication deficient influenza virus comprises a modified nonstructural protein (NS) segment, useful for treating tumor. Patent Number(s): WO2009007244-A2; Publ. Date: 15-Jan-2009

Assignee: AVIR GREEN HILLS BIOTECHNOLOGY RES DEV; UNIV WIEN MEDIZINISCHE;  
Inventor(s): **BERGMANN M**; EGOROV A; KITTEL C, MUSTER T, WOLSCHEK M

4) New linear expression construct that is free of any amplification and/or selection sequences, useful for preparing a composition for treating or preventing infectious diseases, e.g., avian influenza virus infection . Patent Number(s): WO2009000891-A2; Publ. Date: 31 Dec 2008

Assignee: AVIR GREEN HILLS BIOTECHNOLOGY RES DEV; UNIV WIEN MEDIZINISCHE  
Inventor(s): WOLSCHEK M; EGOROV A; **BERGMANN M**, MUSTER M, KITTEL C

5) Pharmaceutical composition useful for inducing specific immune response against antigen e.g. tumor antigens or antigens of infectious pathogens like viruses, comprises antigen and adjuvant, which is apathogenic virus . Patent Number(s): WO2007016715-A2; Publ Date 15 Feb 2007

Assignee: GREENHILLS BIOTECHNOLOGY RES DEV TRADE G  
Inventor(s): SACHET M; **BERGMANN M**; MUSTER T, EGOROV A

6) Stable influenza A virus vector. Europ. Appl. Nr. 12184041.7, Filing 12 Sept 2012

Assignee: Med. Univ Vienna  
Inventors: **BERGMANN M**, KUZNETSOVA I

7) Tumor cell Apoptosis. Europ. Appl Nr. 12184040.9, Filing: 12 Sept 2012

Assignee: Med Univ. Vienna  
Inventors: **BERGMANN M**, WEISS R

#### Media:

<http://www.google.at/url?sa=t&rct=j&q=&esrc=s&source=web&cd=21&ved=0CB4QFjAAOBQ&url=http%3A%2F%2Fderstandard.at%2F800937%2FVirus-als-Krebskiller&ei=8yIsVa7LNsW7sQHquYKADA&usq=AFQjCNFes4PIS7LMDTaRgYYC72bRxI9CcA&bvm=bv.90491159,d.bGQ>

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<https://www.ccc.ac.at/wissenschaft-forschung/ccc-units/colorectal-cancer-unit-ccc-crc/>

#### Funded Projects (last 10 years)

<i>Period</i>	<i>Organization</i>	<i>Short title</i>	<i>Function</i>
2017-21	Ludwig Boltzmann Institute	Applied Diagnostic (oncology study panel)	Oncology Study Panel
2016	Bürgermeisterfond Wien	Rectal Cancer Biomarker	PI
2014-16	Phamenterprise, Moscow, Russia	Anticancer Drugs	PI
2010-12	Center for Biol Safety, Kasachstan	Development of recombinant influenza virus vectors	PI
2009-10	ALT Solutions Switzerland	Inhibition of telomere lengthening by antiviral drugs	PI
2005-10	EU commision Grant #518281	A replication defective Influenza A Virus vaccine	Co-PI
2008-10	EU commision Grant #44512	Intranasal H5 vaccine	Co-PI

Vienna, April 2018

