**Szakmai önéletrajz**

SZEMÉLYI ADATOK

Dr. Uray Iván Péter (1970)

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EGYETEMI VÉGZETTSÉG

Debreceni Orvostudományi Egyetem, Általános Orvosi Kar: általános orvos (MD) (1994)

MUNKAHELYEK ÉS KINEVEZÉSEK

tudományos munkatárs (1998-1999) DOTE Biokémiai és Molekuláris Biológiai Intézet

postdoctoral fellow (1999-2003) University of Texas, Houston, Integrative Biol. and Pharm.

postdoctoral associate (2003-2007) Baylor College of Medicine, Breast Center

instructor (2007-2009) Baylor College of Medicine, Molecular and Cellular Biology

assistant professor (2009-2015) UT MD Anderson Cancer Center, Clinical Cancer Prevention

director (2009-2015) HTS Screening Resource, UT MD Anderson Cancer Center, CCP

TUDOMÁNYOS FOKOZAT

Ph.D. (2001)

ÖSZTÖNDIJAK, TANULMÁNYUTAK

Ruprecht-Karls-Universität, Heidelberg, 1 szemeszter (1993)

The University of Texas Medical School, Houston, Texas, 2x 3 hónap (1995, 1996)

American Heart Association Young Investigator travel award (2002)

TUDOMÁNYOS ÉRDEKLŐDÉS

* A magreceptorok, különösen a retinoid receptorok szerepe a malignus transzformáció, az emlőrák kialakulásának megakadályozásában.
* RXR-szelektív retinoidok újszerű, szinergikus gyógyszerkombinációk keresése chemopreventív alkalmazás céljából.
* A lipid anyagcsere, a neutrális és foszfolipidek szintézise, mint lehetséges onkológiai célpont.
* A többszörösen telítetlen zsírsavak megoszlásának összefüggései a sejttranszformáció folyamatával, lehetséges szerepük új emlőrák megelőző stratégiákban.

LEGFONTOSABB TUDOMÁNYOS EREDMÉNYEI

* Archivált, paraffinba ágyazott szövetmintákból történő nukleinsav kivonás, és génexpresszió mérés technikájának kidolgozása. Ezen módszerrel súlyosan dekompenzált szívizom mechanikai tehermentesítése során bekövetkező molekuláris változások jellemzése során a trófikus szignálútvonalak (pl. receptor tirozin kinázok) és a sejtmembrán mikrodomént alkotó caveolinok felregulálódásának leírása.
* High throughput és high content technológiákat (robotikus mikrofolyadék kezelés, automatizált fluoreszcens mikroszkópia és képanalízis, kis molekulájú vegyületek és siRNS könyvtárak) alkalmazó szűrőlabor felállítása és vezetése az MD Anderson Cancer Center-ben.
* RXR szelektív retinoidok antiproliferatív hatásmechanizmusának felderítése; az IGFBP6 gén mint rexinoid biomarker transzkripciós szabályozásának leírása, és a tiazolidindionokkal kifejtett szinergikus hatás dózis alapú elválasztása a lipogenikus mellékhatásoktól.
* A DGAT1 enzim azonosítása mint tumorellenes támadáspont transzlációs emlőrák modellek segítségével.
* Adrenerg és rexinoid-regulált jelátviteli útvonalak közötti molekuláris interakció felismerése. Transzlálható, alacsony dózisú szintetikus rexinoid és adrenerg receptor gátló szinergikus gyógyszerkölcsönhatásának felismerése, emlőrák megelőző gyógyszerkombinációk azonosítása hatóanyag könyvtárak nagy áteresztőképességű (HTS) szűrése révén.

NEMZETKÖZI TUDOMÁNYOS PÁLYÁZATOK:

Befejezett:

##### National Institutes of Health /NCI (NIH R03 CA137777-01/02), 2008-2010, 100 000 USD, High Content Analysis to Identify Biomarkers for Chemopreventive Drug Activity **(Társ-témavezető: Dr. Uray Iván)**

* Duncan Family Institute Seed Grant, 2011-2014, 100 000 USD**,** High Throughput Search for a Combination Cancer Prevention Treatment **(Témavezető: Dr. Uray Iván)**
* Institutional Research Grant MD Anderson Cancer Center, 2012-2014, 50 000 USD, 15-lipoxygenase-1 Transcriptional Activation to Molecularly Target Colon Cancer, IRG (**Co-investigator**: Dr. Uray Iván)
* National Institutes of Health /NCI (NIH R03 CA180550), 2013-2015, 100 000 USD, Targeting the lipid synthesis enzyme, DGAT1, for breast cancer prevention **(Témavezető: Dr. Uray Iván)**

Bírálat alatt:

* Targeting Ocular Inflammation to Alleviate Diabetes-related Eye Disease, EFSD/Sanofi European Research Programme, 02/01/2016-01/31/2017, EUR100,000 **(Társ-témavezető: Dr. Uray Iván)**
* Molecular Mapping of Genome Instability and Carcinogenesis, MolMedEx GINOP 2.3.2./ NKFIH-EMBL, 09/01/2016-08/31/2020, HUF 1,500,000,000 **(Társ-témavezető: Dr. Uray Iván)**

TUDOMÁNYOS KÖZÉLETI TEVÉKENYSÉG

Ad hoc bírálói tevékenység

*folyóiratoknak*: PLOS One, Journal of Pharmacy and Pharmacology, British Journal of Nutrition, Cancer Prevention Research

*pályázatbíráló*: Baylor College of Medicine, Health Research Board of Ireland

Az öt legtöbbet idézett közlemény a citációk számával:

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2. Shen, Q., **Uray, I.P**., Li, Y., Krisko, T.I., Strecker, T.E., Kim, H.-T., Brown, P.H.

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1. **Uray, I.P.**, Shen, Q., Seo, H.-S., Kim, H., Lamph, W.W., Bissonnette, R.P., Brown, P.H. Rexinoid-induced expression of IGFBP-6 requires RARβ-dependent permissive cooperation of retinoid receptors and AP-1 (2009) Journal of Biological Chemistry, 284 (1), pp. 345-353.

IDÉZET: 16

1. **Uray, I.P.**, Brown, P.H.

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IDÉZET: 28

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Retinoids and Rexinoids in Cancer Prevention: From Laboratory to Clinic By: **Uray, I.P.**, Dmitrovsky, E. Brown, P.H.

SEMINARS IN ONCOLOGY, In press. Doi: 10.1053/j.seminoncol 2015.09.002 **IF: 3,898**

[ARID1A Deficiency Impairs the DNA Damage Checkpoint and Sensitizes Cells to PARP Inhibitors](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=12&SID=U22tPV7iMoaOOgf9Jvx&page=1&doc=1) By: Shen, J; Peng, Y; Wei, L; Zhang W., Yang L., Kapoor P., Ju Z, Mo, Q., Shih IeM, **Uray**, IP, Wu, X, Brown, PH., Shen X., Mills, GB, Peng, G.

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[Cancer-Preventive Rexinoid Modulates Neutral Lipid Contents of Mammary Epithelial Cells through a Peroxisome Proliferator-Activated Receptor gamma-Dependent Mechanism](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=12&SID=U22tPV7iMoaOOgf9Jvx&page=1&doc=6)

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CANCER PREVENTION RESEARCH  Volume: 1   Issue: 1   Pages: 45-55   Published: JUN 2008 **IF:6,00**

[The AP-1 transcription factor regulates breast cancer cell growth via cyclins and E2F factors](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=CitationReport&qid=12&SID=U22tPV7iMoaOOgf9Jvx&page=2&doc=11)

By: Shen, Q.; **Uray**, I. P.; Li, Y.; Krisko, TI.; Strecker, TE.; Kim. HT.; Brown PH.

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By: **Uray**, IP.; Brown, PH.

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By: **Uray**, IP; Seo, HS; Kim, H; William, L; Johnson, K; Brown, P.

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JOURNAL OF CELLULAR BIOCHEMISTRY  Supplement: 22   Pages: 151-161   Published: 1995 **IF:3,075**

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