



## Helena Kandárová

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**Dátum narodenia:** 13/11/1977

**Pohlavie:** Žena

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**🌐 Web-stránka:** <https://www.helenakandarova.com/>

**🌐 LinkedIn :** <https://www.linkedin.com/in/kandarova/>

**📍 Adresa:** Centrum Experimentálnej Medicíny, Slovenská Akadémia Vied  
Dúbravska Cesta 9, 84104 Bratislava (Slovensko)

### O MNE

Helena Kandárová, ERT je vedecká pracovníčka na Ústave farmakológie a toxikológie, Centra experimentálnej medicíny, Bratislava. Pôsobí aj na Ústave biochémie a mikrobiológie na Fakulte chemickej a potravinárskej technológie (FCHPT) v Bratislave. V rokoch 2007 - 2018 pôsobila Dr. Kandárová na pozícii "Senior Scientist and General Acting Manager for EU" v spoločnosti MatTek Corporation, USA. V roku 2009 založila na Slovensku pobočku tejto spoločnosti - MatTek In Vitro Life Science Laboratories - a viedla spoločnosť na pozícii výkonného riaditeľa do roku 2018. Dr. Kandarova je členkou výkonných rád v niekoľkých európskych toxikologických organizáciách a je členkou medzinárodných expertných panelov. V roku 2020 bola zvolená za predsedníčku Európskej Spoločnosti pre Toxikológiu In Vitro - ESTIV . Dr. Kandárová sa podieľa na mnohých medzinárodných projektoch zameraných na validáciu 3D rekonštituovaných modelov ľudských tkanív pre testovanie akútnej toxicity a fototoxicity chemických látok, kozmetiky, pesticídov a zdravotníckych pomôcok. Je spoluautorkou niekoľkých medzinárodne implementovaných protokolov, ktoré boli prijaté aj do usmernení OECD a ISO 10993. Publikovala viac ako 50 príspevkov a 8 kapitol v zahraničných knižných publikáciách (Scopus H-index 19, viac ako 1000 citácií). Dr. Kandárová získala niekoľko vedeckých ocenení súvisiacich s výskumom zameraným na vývoj a validáciu alternatívnych metód založených na 3D tkanivových kultúrach. Aktívne sa podieľa na organizovaní edukačných podujatí a kongresov v oblasti toxikológie in vitro, ako aj na školiteľstve študentov a mladých vedeckých pracovníkov.

### PRACOVNÉ SKÚSENOSTI

#### Samostatný vedecký pracovník (IIa)

**Centrum Experimentálnej Medicíny, Slovenská Akadémia Vied** [ 01/07/2019 – Súčasné zamestnanie ]

**Mesto:** Bratislava

**Štát:** Slovensko

- vývoj a validácia protokolov in vitro na testovanie chemicalí a zdravotníckych pomôcok
- účasť a riadenie grantov
- vzdelávacie a školiace činnosti
- riadenie a vykonávanie štúdií SLP in vitro
- reprezentovanie pracoviska v sieti EURL-NETVAL

## Odborný asistent

**Fakulta Chemickej a Potravinárskej Technológie, Inštitút Biochémie a Mikrobiológie** [ 01/03/2020 – Súčasné zamestnanie ]

Mesto: Bratislava

Štát: Slovensko

- Supervízor študentov - semestrálne, diplomové a bakalárske práce na vybrané témy v oblasti tkanivového inžinierstva, bunkových kultúr a in vitro toxikológie

## Konateľka

**InVitroTox Consulting, s.r.o., Bratislava, Slovakia** [ 01/07/2019 – Súčasné zamestnanie ]

Mesto: Bratislava

Štát: Slovensko

- Poradenstvo v oblasti toxikológie in vitro

## Výkonná riaditeľka a konateľka

**MatTek In Vitro Life Science Laboratories, s.r.o., Bratislava, Slovakia** [ 01/01/2009 – 31/12/2018 ]

Mesto: Bratislava

Štát: Slovensko

- Založila a vybudovala dcérsku spoločnosť spoločnosti MatTek Corporation na Slovensku
- Najala, školila a trénovala kľúčový personál zariadenia EÚ
- Dodržiavala a prekročila obchodné ciele stanovené korporáciou
- Zabezpečila udržateľný rast podnikania, ako to dokazuje každoročný rast výnosov > 20%
- Dosiahla ziskovosť pobočky od začiatku komerčnej výroby.
- Zvýšila podiel spoločnosti na trhu v EÚ o 120%
- Zaručila certifikáciu všetkých procesov firmy podľa normy ISO 9001
- Zastupovala spoločnosť vo vedeckých výboroch, medzinárodných konferenciách a obchodných rokovaní
- Viedla a riadila vedecké projekty zamerané na implementáciu technológie do regulačných rámcov (ICH, ISO a OECD).

## Vedecký pracovník a generálny manažér pre EÚ

**MatTek Corporation** [ 01/01/2007 – 31/12/2018 ]

Mesto: Ashland, MA

Štát: Spojené štáty

- Optimalizovala skúšobné protokoly pre testovanie lokálnej toxicity
- Riadila medzinárodný validačný projekt na EpiDerm Skin Irritation Test (OECD TG 439)
- Popredný vedec vo vývoji a validácii protokolu EpiDerm Medical Devices
- Spoluriešiteľka vedeckých konzultantov a testovacích metód v EpiOcular validačnej štúdii pre testovanie dráždenia očí (OECD TG 432)
- Manažér a obchodný poradca pre činnosti spoločnosti MatTek Corporation súvisiace s EÚ
- Zriadenie školiacich programov pre klientov a vedcov zaujímajúcich sa o 3R
- Účastník a vedecký pracovník v oblasti niekoľkých medzinárodných grantov a žiadostí o grant

## Národný koordinátor programu testovacích smerníc OECD (TG), Slovensko

*Pro bono* [ 2010 – 2012 ]

Mesto: Bratislava

- Z poverenia MŽP SP, zastupovala Slovenskú republiku na stretnutiach OECD WNT.
- Od roku 2010 národný expert v oblasti testovania lokálnej toxicity a vývoja testovacích smerníc OECD.

## Výskumný pracovník

*Federal Institute for Risk Assessment BfR* [ 15/05/2003 – 15/05/2006 ]

Mesto: Berlin

- Vývoj, hodnotenie a validácia alternatívnych metód na testovanie topickej toxicity s použitím širokého spektra komerčne a komerčne dostupných modelov rekonštruovaných ľudských tkanív.
- Účasť na projektoch validácie ECVAM týkajúcich sa podráždenia kože a fototoxicity.
- Dizertačná práca pre získanie PhD na BfR pod vedením Dr. Manfreda Liebscha a prof. Monika Schaefer-Korting.

## VZDELÁVANIE A ODBORNÁ PRÍPRAVA

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### Akademický titul (IIa) - Samostatný vedecký pracovník

*Slovenská Akadémia Vied* [ 2019 – Súčasné zamestnanie ]

Adresa: Dubravska cesta 9, 841 04 Bratislava (Slovensko)

<http://cem.sav.sk/index.php/en/cem/>

### European Registered Toxicologist (ERT)

*EUROTOX, Hellenic Society of Toxicology* [ 2017 – Súčasné zamestnanie ]

<http://www.eurotox.com/>

### Doktorandské štúdium (Dr.rer.nat, ekv. PhD)

*Freie Universtitat Berlin, Institut für Pharmazie* [ 01/06/2004 – 01/06/2006 ]

Adresa: Königin-Luise-Straße 2 und 4, 14195 Berlin (Nemecko)

<https://www.fu-berlin.de/>

### Inžinierske štúdium (Ing.)

*Fakulta chemickej a potravinárskej technológie, STU* [ 01/09/1999 – 01/09/2001 ]

Adresa: Radlinského 9 , 812 37 Bratislava (Slovensko)

<https://www.fchpt.stuba.sk>

### Bakalárske štúdium (BSc.)

*Fakulta chemickej a potravinárskej technológie, STU* [ 01/09/1996 – 01/09/1999 ]

Adresa: Radlinského 9, 812 37 Bratislava (Slovensko)

<https://www.fchpt.stuba.sk>

## JAZYKOVÉ ZRUČNOSTI

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Materinský(-é) jazyk(y)::

**slovenčina , čeština**

Ďalší jazyk:

**angličtina**

**POČÚVANIE C2 ČÍTANIE C2 PÍSOMNÝ PREJAV C2**

**SAMOSTATNÝ ÚSTNY PREJAV C2**

**ÚSTNA INTERAKCIA C2**

**nemčina**

**POČÚVANIE C2 ČÍTANIE C2 PÍSOMNÝ PREJAV B2**

**SAMOSTATNÝ ÚSTNY PREJAV C1**

**ÚSTNA INTERAKCIA C1**

**taliančina**

**POČÚVANIE A2 ČÍTANIE A2 PÍSOMNÝ PREJAV A1**

**SAMOSTATNÝ ÚSTNY PREJAV A1**

**ÚSTNA INTERAKCIA A1**

## DIGITÁLNE ZRUČNOSTI

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### MS Office and Teams

Microsoft Word / Microsoft Excel / Outlook / Power Point / Microsoft Teams

### Social Media and Online communication tools

Google tools (Gmail Drive Google forms etc) / LinkedIn / Facebook / Twitter / Skype

### Other digital skills and programs

Accounting programs / Salesforce CRM / Web mastering and web design

## PUBLIKÁCIE

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### Toxicological testing of a photoactive phthalocyanine-based antimicrobial substance.

[2020]

<https://www.sciencedirect.com/science/article/abs/pii/S0273230020301112>

Regulatory Toxicology and Pharmacology

Kejlová K., Bendová, H., Chrz, J., Dvořáková, M., Svobodová, L., Vlková, A., Kubáč, L., Kořínková, R., Černý, J., Očadlíková, D., Rucki, M., Heinonen, T., Jírová, D., Letašiová, S., **Kandarova, H.**, Kolářová, H. (2020). Toxicological testing of a photoactive phthalocyanine-based antimicrobial substance. In Regulatory Toxicology and Pharmacology, 2020, vol. 115, art. no. 104685.

### Evaluation of the toxicity profiles of rare earth elements salts (lanthanides).

[2020]

<https://www.sciencedirect.com/science/article/abs/pii/S1002072119308646>

Journal of Rare Earths

Kejlova, K., Vlkova, A., Jirova, D., Dvorakova, M., Svobodova, L., **Kandarova, H.**, Letasiova, S. Kolarova, H., Heinonen, T., Mannerstrom M.,(2020). Evaluation of the toxicity profiles of rare earth elements salts (lanthanides). In Journal of Rare Earths, 2020, [article in press]. ISSN 1002-0721

## Evaluation of the phototoxic and cytotoxic potential of TiO<sub>2</sub> nanosheets in 3D reconstructed human..

[2020]

<https://www.altex.org/index.php/altex/article/view/1435>

Alternatives to Animal Experimentation

Líšková, A., Letašiová, S., Jantová, S., Brezová, V., **Kandárová, H.** (2020). Evaluation of the phototoxic and cytotoxic potential of TiO<sub>2</sub> nanosheets in 3D reconstructed human skin model. Alternatives to Animal Experimentation, 2020, vol. 37, [article in press]. ISSN 1868-596X.

## Tissue-on-a-Chip: Microphysiometry with Human 3D Models on Transwell Inserts

[2020]

<https://www.frontiersin.org/articles/10.3389/fbioe.2020.00760/full>

Frontieres - Biotechnology

C. Schmidt, J. Markus, H. **Kandarova** and J. Wiest (2020). Tissue-on-a-Chip: Microphysiometry with Human 3D Models on Transwell Inserts. In Frontiers in Bioengineering and Biotechnology, 2020, vol. 8, art. no. 760. Typ: ADCA

## Safety testing of adult novelties using in vitro methods.

[2020]

<https://doi.org/10.1016/j.yrtph.2020.104780>

Regulatory Toxicology and Pharmacology

SVOBODOVÁ, Lada - DVOŘÁKOVÁ, Markéta - RUCKI, Marián - KEJLOVÁ, Kristína - **KANĎÁROVÁ, Helena** - KOLÁŘOVÁ, Hana - MANNERSTROM, Marika - HEINONEN, Tuula. Safety testing of adult novelties using in vitro methods. In Regulatory Toxicology and Pharmacology, 2020, vol. 117, art. no. 104780. (2019: 2.652 - IF, Q1 - JCR, 0.842 - SJR, Q2 - SJR). ISSN 0273-2300. Dostupné na: <https://doi.org/10.1016/j.yrtph.2020.104780>  
Typ: ADCA

## Sviluppo e validazione di una piattaforma innovativa per lo studio in vitro dei diversi....

[2020]

<https://www.ceceditore.com/sviluppo-e-validazione-di-una-piattaforma-innovativa-per-lo-studio-in-vitro-dei-diversi-meccanismi-di-assorbimento-intestinale/>

L'Integratore Nutrizionale,

Ilaria Pulsoni, Jan Markus, Seyoum Ayehunie, Silvia Scaglione, **Helena Kandarova**, Maurizio Aiello (2020). Sviluppo e validazione di una piattaforma innovativa per lo studio in vitro dei diversi meccanismi di assorbimento intestinale - Dispositivo fluidico multi-camera (MIVO®) con inserti di tessuto 3D. In L'Integratore Nutrizionale, 2020, vol. 23, no. 1, p. 38-45. ISSN 1127-6320.

## In vitro demonstration of intestinal absorption mechanisms of different sugars using 3D organot....

[2020]

<https://www.altex.org/index.php/altex/article/view/1340>

ALTEX - Alternatives to Animal Experimentation

Marrella, A., Buratti, P., Markus, J., Firpo, G., Pesenti, M., Landry, T., Ayehunie, S., Scaglione, S., **Kandarova, H.** and Aiello, M. (2020). In vitro demonstration of intestinal absorption mechanisms of different sugars using 3D organotypic tissues in a fluidic device. In ALTEX - Alternatives to Animal Experimentation, 2020, vol. 37, [Epub ahead of print]. ISSN 1868-596X.

### **Behind the claim - In Vitro 3D human tissue models in the studies of cosmetics for "sensitive skin"**

[2019]

[https://www.teknoscienze.com/tns\\_article/in-vitro-3d-human-tissue-models-in-the-studies-of-cosmetics-for-sensitive-skin/](https://www.teknoscienze.com/tns_article/in-vitro-3d-human-tissue-models-in-the-studies-of-cosmetics-for-sensitive-skin/)

H&PC Today

**Kandarova H., Jírová D. (2019).** Behind the claim - In Vitro 3D human tissue models in the studies of cosmetics for "sensitive skin". H&PC Today - Household and Personal Care Today - vol. 14(2) March/April 2019.

### **ESTIV2018: 20th anniversary of the International Congress on In Vitro Toxicology.**

[2019]

<https://pubmed.ncbi.nlm.nih.gov/31220529/>

Toxicology in Vitro

Vinken M., Suter-Dick L., **Kandarova H. (2019).** ESTIV2018: 20th anniversary of the International Congress on In Vitro Toxicology. Toxicology in Vitro. Jun 18; 60:293-295. doi: 10.1016/j.tiv.2019.06.005

### **Toxicity of food contact paper evaluated by combined biological and chemical methods**

[2019]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233318307847>

Toxicology in Vitro

Kejlova K., Dvorakova M., Vavrouš A., Sevcik V., **Kandarova H.,** Letasiova S., Sosnovcova J., Jirova D. (2019). Toxicity of food contact paper evaluated by combined biological and chemical methods. Toxicology in Vitro, Sep; 59:26-34. doi: 10.1016/j.tiv.2019.04.001

### **Preparation of irritant polymer samples for an in vitro round robin study**

[2018]

<https://www.sciencedirect.com/science/article/pii/S0887233318300201>

Toxicology in Vitro

Coleman K.P., Grailer T.P., McNamara L.R., Rollins B.L., Christiano N.J., **Kandarova H.,** De Jong W.H.(2018). Preparation of irritant polymer samples for an in vitro round robin study, Toxicology in Vitro, 02 Feb 2018, 50:401-406. DOI: 10.1016/j.tiv.2018.01.018

### **Evaluation of the medical devices benchmark materials in the controlled human patch testing...**

[2018]

<https://www.sciencedirect.com/science/article/pii/S0887233318300468>

Toxicology in Vitro

**Kandarova H.,** Bendova H., Letasiova S., Coleman K.P., De Jong W.H., Jirova D.(2018). Evaluation of the medical devices benchmark materials in the controlled human patch testing and in the RhE in vitro skin irritation protocol, Toxicology in Vitro, 50

### **Pre-validation of an in vitro skin irritation test for medical devices using the reconstructed....**

[2018]

<https://www.sciencedirect.com/science/article/pii/S0887233318300444?via%3Dihub>

Toxicology in Vitro

**Kandarova H.,** Willoughby J.A., De Jong W.H., Letasiova S., Milasova T., Bachelor M.A., Breyfogle B., Handa Y., De la Fonteyne L., Coleman K.P. (2018). Pre-validation of an in vitro skin irritation test for medical devices using the reconstructed human tissue model EpiDerm™, Toxicology in Vitro, 50

### Round robin study to evaluate the reconstructed human epidermis (RhE) model...

[2018]

<https://www.sciencedirect.com/science/article/pii/S0887233318300018>

Toxicology in Vitro

De Jong W.H., Hoffmann S., Lee M., **Kandarova H.**, Pellevoisin C., Haishima Y., Rollins B., Zdawczyk A., Willoughby J., Bachelor M., Schatz T., Skoog S., Parker S., Sawyer A., Pescio P., Fant K., Kim K. (2018). Round robin study to evaluate the reconstructed human epidermis (RhE) model as an in vitro skin irritation test for detection of irritant activity in medical device extracts. *Toxicology in Vitro*, 50

### Reprint of "CON4EI: Selection of the reference chemicals for hazard identification....

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233318300717?via%3Dihub>

Toxicology in Vitro

Adriaens E., Alepee N., **Kandarova H.**, Drzewieckac A., Gruszka K., Guest R., Willoughby J.A., Verstraelen S., Van Rompay A.R. (2018). Reprint of "CON4EI: Selection of the reference chemicals for hazard identification and labelling of eye irritating chemicals. *Toxicology in Vitro*, 49

### Reprint of "CON4EI: Bovine Corneal Opacity and Permeability (BCOP) test for hazard identification..

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233318300729>

Toxicology in Vitro 49

Verstraelen S., Maglennon G., Hollanders K., Boonen F., Adriaens E., Alepee N., Drzewiecka A., Gruszka K., **Kandarova H.**, Willoughby J.A., Guest R., Schofield J., Van Rompay A.R. (2018). Reprint of "CON4EI: Bovine Corneal Opacity and Permeability (BCOP) test for hazard identification and labelling of eye irritating chemicals". *Toxicology in Vitro*, 49

### Development of testing strategies for hazard identification and labelling for serious eye damage...

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317302606>

Toxicology in Vitro

Adriaens E., Verstraelen S., Alepee N., **Kandarova H.**, Drzewiecka A., Gruszka K., Guest R., Willoughby J.A., Van Rompay A.R. (2018). CON4EI: Development of testing strategies for hazard identification and labelling for serious eye damage and eye irritation of chemicals. *Toxicology in Vitro*, 49

### Evaluation of QSAR models for hazard identification and labelling of eye irritating chemicals

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317302564>

Toxicology in Vitro

Geerts L., Adriaens E., Alepee N., Guest R., Willoughby J.A., **Kandarova H.**, Drzewiecka A., Fochtman P., Verstraelen S., Van Rompay A.R. (2018). CON4EI: Evaluation of QSAR models for hazard identification and labelling of eye irritating chemicals. *Toxicology in Vitro*, 49

#### **CON4EI: CONsortium for in vitro Eye Irritation testing strategy - EpiOcular™ time-to-toxicity....**

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317302503?via%3Dihub>

Toxicology in Vitro

**Kandarova H.**, Letasiova S., Adriaens E., Guest R., Willoughby J.A., Drzewiecka A., Gruszka K., Alepee N., Verstraelen S., Van Rompay A.R.(2018). CON4EI: CONsortium for in vitro Eye Irritation testing strategy - EpiOcular™ time-to-toxicity (EpiOcular ET-50) protocols for hazard identification and labelling of eye irritating chemicals. Toxicology in Vitro, 49

#### **CON4EI: Short Time Exposure (STE) test method for hazard identification and labelling...**

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317302187?via%3Dihub>

Toxicology in Vitro

Adriaens E., Willoughby J.A., Meyer B.R., Blakeman L.C., Alepee N., Fochtman P., Guest R., **Kandarova H.**, Verstraelen S., Van Rompay A.R.(2018). CON4EI: Short Time Exposure (STE) test method for hazard identification and labelling of eye irritating chemicals. Toxicology in Vitro, 49

#### **CON4EI: Slug Mucosal Irritation (SMI) test method for hazard identification and labelling...**

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317302497?via%3Dihub>

Toxicology in Vitro

Adriaens E., Guest R., Willoughby J.A., Fochtman P., **Kandarova H.**, Verstraelen S., Van Rompay A.R.(2018). CON4EI: Slug Mucosal Irritation (SMI) test method for hazard identification and labelling of serious eye damaging and eye irritating chemicals. Toxicology in Vitro 49

#### **CON4EI: EpiOcular™ Eye Irritation Test (EpiOcular™ EIT) for hazard identification and labelling...**

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317301881?via%3Dihub>

Toxicology in Vitro

**Kandarova H.**, Letasiova S., Adriaens E., Guest R., Willoughby J.A., Drzewiecka A., Gruszka K., Alepee N., Verstraelen S., Van Rompay A.R.(2018). CON4EI: EpiOcular™ Eye Irritation Test (EpiOcular™ EIT) for hazard identification and labelling of eye irritating chemicals. Toxicology in Vitro, 49. June 2018, Pages 21-33

#### **CON4EI: SkinEthic™ Human Corneal Epithelium Eye Irritation Test**

[2018]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317301613?via%3Dihub>

Toxicology in Vitro

Van Rompay A.R., Alepee N., Nardelli L., Hollanders K., Leblanc V., Drzewiecka A., Gruszka K., Guest R., **Kandarova H.**, Willoughby J.A., Verstraelen S., Adriaens E.(2018). CON4EI: SkinEthic™ Human Corneal Epithelium Eye Irritation Test (SkinEthic™ HCE EIT) for hazard identification and labelling of eye irritating chemicals. Toxicology in Vitro, 49

#### **53rd EUROTOX Congress: Connecting for a Safer Future.**

[2017]

<https://www.sciencedirect.com/science/article/abs/pii/S0378427417311608?via%3Dihub>

Toxicology Letters

**Kandarova, H.** and Iscan, M. (2017) 53rd EUROTOX Congress: Connecting for a Safer Future. EUROTOX 2017 Supplement, Foreword. Toxicol Lett. 2017 Oct 20; 280 Suppl 1:S1. doi: 10.1016/j.toxlet.2017.08.001. Epub 2017 Aug 8.



#### **CON4EI: Bovine Corneal Opacity and Permeability (BCOP) test...**

[2017]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317301844>

Toxicology in Vitro 44

Verstraelen S., Maglennon G., Hollanders K., Boonen F., Adriaens E., Alepee N., Drzewiecka A., Gruszka K., **Kandarova H.**, Willoughby J.A., Guest R., Schofield J., Van Rompay A.R. (2017). CON4EI: Bovine Corneal Opacity and Permeability (BCOP) test for hazard identification and labelling of eye irritating chemicals. Toxicology in Vitro 44.

#### **CON4EI: Selection of the reference chemicals for hazard identification...**

[2017]

<https://www.sciencedirect.com/science/article/abs/pii/S0887233317301492>

Toxicology in Vitro 44

Adriaens E., Alepee N., **Kandarova H.**, Drzewiecka A., Gruszka K., Guest R., Willoughby J.A., Verstraelen S., Van Rompay A.R. (2017). CON4EI: Selection of the reference chemicals for hazard identification and labelling of eye irritating chemicals. Toxicology in Vitro 44.

#### **Two novel prediction models improve predictions of skin corrosive sub-categories by test methods...**

[2015]

<https://linkinghub.elsevier.com/retrieve/pii/S0887233315002106>

Toxicology in Vitro 29

Desprez B., Barroso J., Griesinger C., **Kandárová H.**, Alépée N., Fuchs H.W (2015). Two novel prediction models improve predictions of skin corrosive sub-categories by test methods of OECD Test Guideline No. 431, Toxicology in Vitro, Volume 29, Issue 8, December 2015, Pages 2055-2080,

#### **Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial...**

[2015]

<https://www.altex.org/index.php/altex/article/view/214>

ALTEX 32

Sarah Gordon, Mardas Daneshian, Joke Bouwstra, Francesca Caloni, Samuel Constant, Donna E Davies, Gudrun Dandekar, Carlos A Guzman, E Fabian, Eleonore Haltner, Thomas Hartung, Nina Hasiwa, P Hayden, **H Kandarova**, S Khare, HF Krug, C Kneuer, Marcel Leist, G Lian, U Marx, Marco Metzger, K Ott, P Prieto, MS Roberts, EL Roggen, T Tralau, C van den Braak, Heike Walles, Claus-Michael Lehr (2015). Non-animal models of epithelial barriers (skin, intestine and lung) in research, industrial applications and regulatory toxicology. Altex, 32, 4, 327-378.

#### **Application of MatTek In Vitro Reconstructed Human Skin Models ....**

[2015]

<https://www.liebertpub.com/doi/abs/10.1089/aivt.2015.0012>

Applied In Vitro Toxicology

Hayden, Patrick J; Bachelor, Michael; Ayehunie, Seyoum; Letasiova, Silvia; Kaluzhny, Yulia; Klausner, Mitchell; **Kandárová, Helena** (2015). Application of MatTek In Vitro Reconstructed Human Skin Models for Safety, Efficacy Screening, and Basic Preclinical Research. Applied In Vitro Toxicology, 1, 3, 226-233, 2015, Mary Ann Liebert, Inc. 140 Huguenot Street, 3rd Floor New Rochelle, NY 10801 USA"

## **The EpiOcular Eye Irritation Test (EIT) for hazard identification and labelling of eye irritating..**

[2015]

<https://journals.sagepub.com/doi/10.1177/026119291504300205>

ATLA 43

Kaluzhny, Y., **Kandárová, H.**, Handa, Y., DeLuca, J., Truong, T., Hunter, A., Kearney, P., d'Argembeau-Thornton, L., Klausner, M. (2015). The EpiOcular Eye Irritation Test (EIT) for hazard identification and labelling of eye irritating chemicals: protocol optimisation for solid materials and the results after extended shipment. *Alternatives to Laboratory Animals : ATLA* 2015, 43(2):101-127]

## **Eye Irritation Test (EIT) for Hazard Identification of Eye Irritating Chemicals using ...**

[2015]

<https://www.jove.com/t/52979/eye-irritation-test-eit-for-hazard-identification-eye-irritating>

JoVE - Journal of Visualized Experiments 102

Kaluzhny, Y., **Kandárová, H.**, d'Argembeau-Thornton, L., Kearney, P., Klausner, M. (2015). Eye Irritation Test (EIT) for Hazard Identification of Eye Irritating Chemicals using Reconstructed Human Cornea-like Epithelial (RhCE) Tissue Model. *JoVE (Journal of Visualized Experiments)*, 102, 2015

## **ČLENSTVO ORGANIZÁCIÁCH A SIEŤACH**

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### **European Society of Toxicology in Vitro - Prezidentka (2020-2024)**

[ The Netherland, 2004 – Súčasnú zamestnanie ]

### **Slovak Toxicology Society SETOX - Vice-Prezidentka (2012 -2021)**

[ Slovak Republic, 2010 – Súčasnú zamestnanie ]

### **Fed. of European Toxicologists and Societies in Toxicology EUROTOX - Predseda komunikačného výboru**

[ EU, 2016 – Súčasnú zamestnanie ]

### **Slovak National Platform for 3Rs - Predsedkyňa**

[ Slovakia, 2018 – Súčasnú zamestnanie ]

### **EPAA Mirror Group - členka**

[ Európska komisia , 2020 – Súčasnú zamestnanie ]

<https://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=2026>

### **EUSAAT, Členka výboru a členka revíznej komisie (2012 - 2016)**

[ Austria , 2003 – Súčasnú zamestnanie ]

### **US Society of Toxicology (US SOT), členka**

[ USA, 2007 – Súčasnú zamestnanie ]

### **Národná Technická Komisia pre Zdravotnícke Pomôcky TK 102**

[ Slovakia , 2013 – Súčasnú zamestnanie ]

### **PARERE Network, EURL ECVAM - Nominovaná národná expertka**

[ Slovakia, 2019 – Súčasnú zamestnanie ]

### **Národný koordinátor programu OECD Test Guidelines (2011 - 2013)**

[ Slovakia, 2011 - 2013 ]

## PROJEKTY

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### **APVV-19-0591: Evaluation of Biocompatibility of Medical Devices and MD Materials In Vitro**

[ 2020 – 2024 ]

Funding organisation: APVV

Main Contractor: CEM, SAS

Period: 1.7.2020 - 31.16.2024

Role: Main Investigator

### **DS-FR-19-0048: Train-SafeMDs - Training Network for improving of the safety of medical devices**

Funding organisation: APVV

Main Contractor: CEM, SAS

Period: 1.3.2020 - 31.12.2021

Role: Main Investigator

Web: [www.medicaldevicessafety.com](http://www.medicaldevicessafety.com)

### **VEGA 2/0153/20: Use of 3D reconstructed tissue models in the biocompatibility assessment**

Funding organisation: Ministry of Education, Science, Research and Sport of the Slovak Republic

Main Contractor: CEM, SAS

Period: 2020 - 2023

Role: Main Investigator

### **H2020 : Logic LAB - Marie Skłodowska-Curie grant agreement No 813920**

Funding Organization: EU - H2020 Grant Scheme.

Received: 2018

Role: One of the 6 Project Partners - representative of MatTek IVLSL

Web: <http://logiclab-itn.eu/>

### **LNE grant scheme - ALT4EI - Alternative for Eye Irritation**

Funding Organization: Flemish Institute for Technological Research

Period: 2017-2018

Main Contractor: VITO, Belgium

Role: Partner and Primary Investigator for the EpiOcular System

### **LRI-AIMT6: CON4EI - Eye irritation testing in vitro in practice – Database and testing strategy.**

Funding Organisation: CEFIC

Period: 2015-2016

Main Contractor: VITO, Belgium

Role: Partner and Primary Investigator for the EpiOcular test system (2 different EpiOcular assays)

## **The ECVAM International Validation Study on In Vitro Tests for Acute Skin Irritation**

Contract 21323

Organisation: JRC - European Centre for Validation and Evaluation of Alternative Methods (ECVAM)

Period: 2003-2007

Main Contractor: ZEBET at the BfR, Germany

Role: Junior Research staff in the ECVAM project responsible for the Development of the EpiDerm Skin irritation protocol (part of my PhD project) and its experimental validation,

## **ECVAM Photo-potency Feasibility Study**

Contracts 19868-2002-09 F1ED ISP DE

Grant of the JRC - European Centre for Validation and Evaluation of Alternative Methods (ECVAM)

Period: 2002-2006

Main Contractor: ZEBET at the BfR, Germany

Role: Junior research staff responsible for the evaluation and optimization of the EpiDerm Phototoxicity test (part of my PhD project)

## **The Small Business Innovation Research (US SBIR) program**

### **Reconstructed Skin Micronucleus Genotoxicity Assay, phase 2**

Organization: Department of Health and Human Services

SBIR Grant #: 2R44ES015002-02A1

Received: 09/28/09

Role: Collaborator

<https://www.sbir.gov/sbirsearch/detail/226440>

### **In Vitro Assay to Determine Skin Corrosivity Packing Groups, Phase 1**

Organization: Department of Health and Human Services

SBIR Grant #: 1R43ES017178-01

Received: 04/03/2008

Role: Collaborator

<https://www.sbir.gov/sbirsearch/detail/226434>

### **In Vitro Human Airway Model for Regulatory Toxicity Testing**

Organization: Department of Health and Human Services

SBIR Grant #: 2U44ES014312-04

Received: 2017 – lasts till 02/28/2020

Role: Collaborator - left the project in 2018 (change of the workplace)

<https://www.sbir.gov/sbirsearch/detail/1247805>

## **Internal R&D projects of MatTek IVLSL - Industrial research**

Organization: MatTek In Vitro Life Science Laboratories, s.r.o.

Period: 2012-2018

Overall Grant Amount: can not be disclosed

Role: Main Investigator, Project manager

## **VYZNAMENANIA A OCENENIA**

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### **2020 - UNECSCO-L'OREAL Woman in Science - Talents program 2020, Čestné uznanie - kategória nad 35 rokov**

UNECSCO-L'OREAL Woman in Science [ 2020 ]

### **2020 - Lush Prize - Commended Project**

Lush Prize

Projekt: In Vitro Irritation Testing of Medical Devices

<https://lushprize.org/2020-prize/2020-prize-winners/>

### **2019 US SOT - Best Medical Device Paper Award**

### **2018 EUSAAT Invited Keynote Lecture on Career Development in Toxicology**

### **EUROTOX 2017 Congress president**

### **2017 US SOT - Best Medical Device Abstract Award**

### **2014 Colgate-Palmolive In Vitro Toxicology Lecture for Students - US SOT**

### **2012 Four Paws poster award - EUSAAT Congress**

### **2007 Linz Congress poster award**

## **ĎALŠIE PROFESIONÁLNE VZDELÁVANIE**

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**Good Laboratory Practice Course, SNAS, Bratislava Slovakia (Certificate) 2019 – Súčasné zamestnanie**  
[ 2020 – Súčasné zamestnanie ]

**Work with toxic and highly toxic substances**  
[ 2020 – Súčasné zamestnanie ]

**Safety Assessment of Cosmetics in the EU, Vrije University Brussels, Belgium (Exam, Certificate)**  
[ 2019 – Súčasné zamestnanie ]

**Good Laboratory Practice Course, SNAS, Bratislava Slovakia (Certificate)**  
[ 2019 – Súčasné zamestnanie ]

**Manufacturing Controlling, Controller Institute, Bratislava, Slovakia (Certificate)**  
[ 2011 – Súčasné zamestnanie ]

**Double Entry Accounting, JASPIS, Bratislava, Slovakia (Exam, Certificate)**

[ 2009 – Súčasné zamestnanie ]

**6 Continuous Education courses taken at the EUROTOX and ESTIV events**

[ 2006 – Súčasné zamestnanie ]

**Safety Assessment of Cosmetics in the EU, Vrije University Brussels, Belgium (Exam, Certificate)**

[ 2006 – Súčasné zamestnanie ]

## **ORGANIZOVANIE KONGRESOV, ÚČAŠŤ V PROGRAMOVOM (SPC) A ORGANIZAČNOM VÝBORE (LOC)**

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**ESTIV 2022 Congress - Prezident kongresu, SPC and LOC**

**OECD EFSA Symposium on Implementation of Alternative Methods 2021 - Predseda, SPC and LOC**

**TOXCON 2018 - Člen SPC and LOC**

**ESTIV 2018 - Člen SPC**

**EUSAAT 2018 - Člen SPC**

**EUROTOX 2017 - Prezident kongresu, Člen SPC and LOC**

**EUROTOX 2016 - Člen SPC**

**TOXCON 2016 - Člen SPC and LOC**

**ESTIV 2016 - Člen SPC**

**EUSAAT 2015 - Člen SPC**

**World Congress on Alternatives to Animal Experiments 2015 - Člen SPC a LOC**

**TOXCON 2014 - Člen SPC a LOC**

**TOXCON 2012 - Člen SPC a LOC**

**EUSAAT 2013 - Člen SPC a LOC**

**EUSAAT 2012 - Člen SPC**

**TOXCON 2010 - Člen SPC a LOC**

**Iné vzdelávacie akcie, školiace kurzy a výučba:**

Účasť na organizovaní vzdelávacích podujatí, školení a výučby: V období rokov 2006 - 2020 sa účasť na viac ako 60 vzdelávacích kurzoch pre mladých vedcov (organizovaných a spoluorganizovaných). Zoznam je k dispozícii na požiadanie.

### Kapitoly

1. **Kandarova H.** and Hayden P. (2021). Standardized Reconstructed Skin Models in Toxicology and Pharmacology: State of the Art and Future Development. Book chapter 417. Handbook of Experimental Pharmacology.
2. Spielmann H. and **Kandarova H.** (2021). Integration of Advanced Technologies into Regulatory Toxicology. In: Reichl FX., Schwenk M. (eds) Regulatory Toxicology. Springer, Berlin, Heidelberg.
3. Spielmann H. and **Kandarova H.** (2021). International Regulation of Toxicological Test Procedures. In: Reichl FX., Schwenk M. (eds) Regulatory Toxicology. Springer, Berlin, Heidelberg.
4. Červinka, M., **Kandarova, H.**, Forgacs, Z., Śladowski, D.: Chapter 2.6 - The Three Rs and Alternatives in the Visegrád (V4) Countries (2019). In: The History of Alternative Test Methods in Toxicology. Edited by Michael Balls, Robert Combes and Andrew Worth. 2019, Pages 59-70
5. **Kandarova H.** and Liebsch M. (2017). The EpiDerm Phototoxicity Test (EpiDerm H3D-PT) – book chapter 35 In: Alternatives for Dermal Toxicity Testing. Editors: Eskes, Ch., van Vliet, E., Maibach, H., 592 pages. ISBN 978-3-319-50351-6
6. **Kandarova H.** and Liebsch M. (2017). The EpiDerm™ Skin Corrosion Test (EpiDerm™ SCT) – book chapter 9. In: Alternatives for Dermal Toxicity Testing. Editors: Eskes, Ch., van Vliet, E., Maibach, H., 592 pages. ISBN 978-3-319-50351-6
7. **Kandarova H.** and Liebsch M. (2017). The EpiDerm™ skin irritation test (EpiDerm™ SIT) – book chapter 3. In: Alternatives for Dermal Toxicity Testing. Editors: Eskes, Ch., van Vliet, E., Maibach, H., 592 pages. ISBN 978-3-319-50351-6
8. Hayden, P. J., Bachelor, M., Klausner, M. and **Kandárová, H.** (2016) Predicting Organ Toxicity In Vitro, in Drug Discovery Toxicology: From Target Assessment to Translational Biomarkers (eds Y. Will, J. E. McDuffie, A. J. Olaharski and B. D. Jeffy), John Wiley & Sons, Inc, Hoboken, NJ. doi: 10.1002/9781119053248.ch12

### Monografie

Advances in Toxicology : Textbook for advanced toxicology course - Vol. 2. Editor: Mojmír Mach.  
Authors: Mojmír Mach, Emanuela Corsini, Helena Kandárová, Ján, Sedlák, Michal Pastorek. Bratislava: Slovak Toxicology Society SETOX , 2012, 152 p. ISBN 978-80-969474-5-4

## PUBLIKAČNÉ AKTIVITY, EDIČNÁ ČINNOSŤ

**Helena Kandarová je autorom viac ako 50 článkov vo vedeckých časopisoch indexovaných v WoS a Scopus**

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Pozvaný/Hostujúci editor:

EUROTOX 2017 (Toxicology Letters), ESTIV 2018 Conference (Toxicology in Vitro), ESTIV 2022 Conference (Toxicology in Vitro)

Spolu-editor:

- Jana Navarová, Helena **Kandárová**, Mojmir Mach (**2014**). Connecting for safer Europe : 19th Interdisciplinary toxicological conference. Programme & abstracts. Interdisciplinary toxicology 7 (S1)
- Jana Navarová, Helena **Kandárová**, Mojmir Mach (**2012**). TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts. Interdisciplinary Toxicology 5 (S1)
- Mojmir Mach, Helena **Kandárová**, Jana Navarová, Eduard Ujhazy, Michal Dubovický (**2010**). TOXCON 2010: Borderless toxicology. 15th Interdisciplinary toxicological conference & advanced toxicological course. The High Tatras Slovakia, Stará Lesná - Hotel Academia, September 6-10, 2010. Interdisciplinary toxicology 3 (1). 1337-6853

Edičné rady:

- Interdisciplinary Toxicology (Field Editor), Current Research in Toxicology (Field Editor), The EuroBiotech Journal (Field Editor), Frontiers in Toxicology - In Vitro Toxicology (Associate Editor), ATLA - Alternatives to animal experimentation (Associate Editor), Skin Pharmacology and Physiology (EB member),

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ATLA, Skin Pharmacology and Physiology, Toxicology in Vitro, Regulatory Pharmacology and Toxicology, Interdisciplinary toxicology, Experimental Dermatology, Cutaneous and Ocular Toxicology, Scientific Reports - Nature

Zoznam Článkov publikovaných počas posledných 5 rokov je uvedený v sekcii Publikácie

Úplný zoznam je dostupný na [www.helenakandarova.com](http://www.helenakandarova.com)