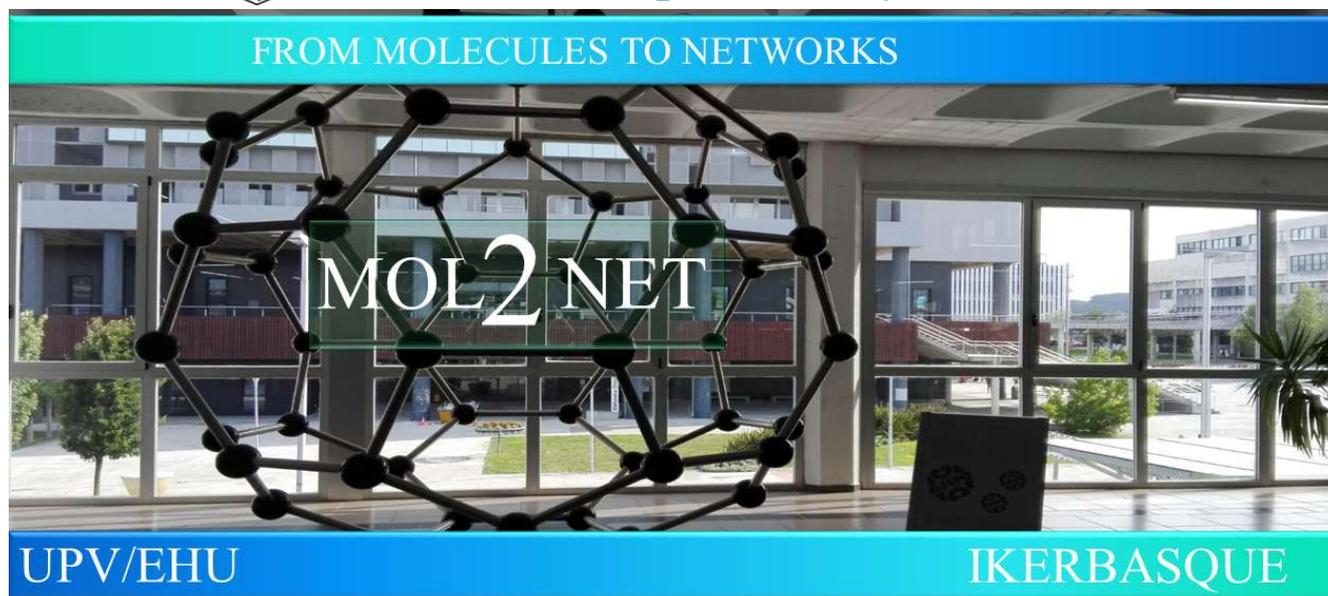




## USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, United Kingdom- Bilbao, Basque Country-Miami, USA, 2021



### USEDAT-NEURODAT'21 IBRO-PERC Training Program

Prof. [Rosario Isasi](#)<sup>1</sup>; Prof. [Anna Lydia Svalastog](#) (Psycho-Soc Work)<sup>2,3</sup>; Dr. [Yasset Perez-Riverol](#)<sup>4</sup>;  
 Prof. [Shira Knafo](#) (Ph.D., M.D. Neurosci.)<sup>5,6,7</sup>; Dr. [Aliuska Duardo-Sanchez](#)<sup>8</sup>; Prof. [Sonia Arrasate](#)<sup>9</sup>;  
 Prof. [David Quesada](#)<sup>10</sup>; Prof. [Cristian R Munteanu](#)<sup>11</sup>; MSc. [Harbil Bediaga Bañeres](#)<sup>12</sup>;  
 Dr. [Francisco J Romero-Duran](#) (PhD. M.D. Neurology)<sup>13</sup>; Prof. [Natalia D.S. Cordeiro](#)<sup>14</sup>;  
 Prof. [Bairong Shen](#)<sup>14</sup>; Prof. [Alejandro Pazos](#) (Ph.D., M.D.)<sup>15</sup>;  
 Prof. [Humbert Gonzalez-Diaz](#) (USEDAT-NEURODAT'21 Coord.)<sup>5,7,9,\*</sup>

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<sup>2</sup> Faculty of Health and Welfare, Østfold University College, **Østfold, Norway.**

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<sup>12</sup> IKERDATA S.L., ZITEK, UPVEHU Univ. of Basque Country, **Basque Country, Spain.**

<sup>13</sup> IMQ Neurology Service, Zorrotzaurre Clinic, Bilbao, **Basque Country, Spain.**

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<sup>15</sup> Institutes for Systems Genetics, West China Hospital, Sichuan University, **Chengdu, China.**



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**USEDAT Congress**

USEDAT: USA-Europe Data Analysis Training Congress Series is a Multi-center Trans-Atlantic initiative offering both scientific meetings and hands-on training courses active since 2015. This dual training course and scientific congress program admit students coming from both areas with strong computational background (Computer sciences, Mathematics, Physics).

However, we especially welcome students from areas with experimental background (Chemistry, Engineering, Biology, Biotechnology, etc.). However, they are not entitled to receive NEURODAT'21 IBRO PERC label, training, or benefits. These students/participants will attend under our traditional USEDAT workshop label only. In all cases, students from both USEDAT and NEURODAT'21 courses and workshops will be encouraged to interchange experiences and participated in activities together. USEDAT initiative joins tutors from various sister summer schools, workshops, boot camps, hands-on training courses, and/or capstone courses of universities in United States and Europe. This includes courses and research workshops offered/chaired by professors of Miami Dade College (MDC), University of North Carolina at Chapel Hill (UNC), North Dakota State University (NDSU), Jackson State University (JSU), Tulane University New Orleans, Saint Thomas University (STU), and West Coast University (WCU) Miami, in United States and courses/workshops organized by professors / researchers of University of Coruña (UDC) Spain, EMBL-EBI European Bioinformatics Institute, Cambridge, United Kingdom, CNAM, Conservatoire National des Arts et Métiers, Paris, France, University of the Basque Country (UPV/EHU) and Ikerbasque, Basque Foundation for Science, Basque Country, Spain, and other European centers. Please see, download, and share our [\[USEDAT Flyer\]](#) and/or read our editorial paper [\[USEDAT Editorial.pdf\]](#). Follow this link [\[MORE USEDAT PROGRAM DETAILS\]](#) to read more details about USEDAT program. USEDAT participants as well as training courses students are invited to submit short communications. However, being student of the training courses is not a requisite to participate on the congress. Researchers worldwide are also welcome to submit their communications directly as well.

**USEDAT congress topics.** USEDAT'21 welcomes papers about Statistics, Artificial Intelligence, Machine Learning, Graph Theory, Complex Networks, Time Series Analysis, Quantum Computing, etc. are welcome. This include theoretical developments as well as applications in Neurosciences, Cheminformatics, Bioinformatics, Medicinal Chemistry, Nanotechnology, Systems Biology, Epidemiology, Biomedical Engineering, Biotechnology, Energy, Biomass, Biofuels, Economy, Trading, Finances, Ciber-security, Education, Meteorology and Time Forecasting, etc. The program also promotes training and knowledge of ethical and legal regulatory issues (GDPR, REACH, OECD, FDA, etc.) about data use and data protection in all the previous areas.

**USEDAT congress-training participation.** Professors and students worldwide are welcome to submit their research works to be published in USEDAT Workshop and/or in any other of the MOL2NET conference workshops (despite of their interest or not on the course as students). For in-site participation contact the coordinators of the different courses or the general coordinator. For participation in the workshops, click submit to send the title and abstract of your communication. After that, wait to receive after approval email. Next, write your communication using the following [\[USEDAT Template.doc\]](#) file to write your communications, after that save a .pdf file and upload. Almost all schools have workshops published by the MOL2NET Conference series (see details at follows). The professors, researchers, and students interested on this workshop are also welcome to participate in the international network of courses offered by USEDAT program. The students of the program can visit one or more of the universities to receive personalized training.

It may include introduction to experimental techniques (NMR, EEG, MS, HPLC, 2DGE, etc.) for data acquisition. However, the main focus is on computational algorithms (ML, AI, ANN, SVM, LDA, Deep Learning, SQL, Python, etc.) for data analysis and computational modelling and simulation in Chemistry (All), Biotechnology, Nanotechnology, Biomedical Engineering, etc. See all benefits for students and professors below. Follow this link [\[MORE USEDAT PROGRAM DETAILS\]](#) to read more details about USEDAT program.

**NEURODAT'21 IBRO-PERC Training Course.** This year our congress is one of the online hosts of the **NEURODAT'21: IBRO-PERC Soft Skills Training** course sponsored by the **International Brain Research Organization (IBRO)** - Pan-Europe Regional Committee (**PERC**). NEURODAT'21 IBRO-PERC Soft Skills Training course offers soft skills training focused on data analysis techniques, machine learning, artificial intelligence, cheminformatics, drug discovery, critical assay writing, regulatory issues, personal data protection, critical assay writing, etc. This year USEDAT is one of the online host congresses of NEURODAT'21 IRBO-PERC Soft Skill training program. This special training program shall focus on entry level neurosciences students coming from Medicine Pharmacy, Biomedical Engineering, or related degrees. Up to 30 students will receive full waivers (enrollment free of cost), in special those students supervised by our course tutors in different universities worldwide. The program is directed to researchers and students worldwide. In order to enroll you can contact by email one of the tutors or professors of our committee, preferably those of your own university or area of residence, if any in the committee (please check committee below). NEURODAT'21 students should contact those tutors or committee members with the (IBRO-PERC label) students of USEDAT course may contact all other members of committee.

**NEURODAT'21 IBRO-PERC Training Course Invited Talks & Tutoring Channels.** As part of IBRO-PERC NEURODAT'21 Training we have hosting online a series of invited talks and/or tutoring channels. Consequently, USEDAT'21 congress will published the slide shows and/or covers of the talks made by professors of the IBRO-PERC NEURODAT'21 Soft Skills Training program. In addition, we will host a series of online tutoring channels of these professors as well. In this tutoring channels students will be allowed to do online public questions and comments about different topics covered by the channel within expertise of the professor in charge. Professors may allow students to interact with in more than one language, according to their communication skills, such as: English (Preferred), Euskera (Basque Language), Spanish, Portuguese, Galego, etc.

**Topics of lectures and channels.** All channels deal with topics related to the development of soft skills by students interested in Neurosciences. For instance, Neuroinformatics, Artificial Intelligence, Data analysis techniques, Machine learning, Cheminformatics & Drug discovery in Neurosciences, Critical assay writing, Neurosciences Regulatory issues, Biomedical research and Personal data protection, Chemical Neurosciences and Organic synthesis, Chemical characterization, NMR, IR, Mass Spectroscopy, of Chemical Compounds with Biological activity over the Central Nervous system, etc.

**Instructions for Tutoring Channels students.** The steps for participation are: (1) Wait for channel starting in 2021-Dec-25, you will see a posting comments option/button, (2) Register/login with your email and password to validate your user, (3) Post your question/comment for the Prof. of the channel, (4) Wait for the email advising that professor has answered your question, (5) Make other questions related to this topic or other topics, (6) Request your attendance certificate to mol2net.chair@gmail.com or directly to the email of the professor.

**Lectures & Tutoring Channels notes.** (1) Students are allowed to made multiple questions following the same discussion thread or open new questions. (2) Some professors may release different materials, slides, etc., that the student can use to study and/or follow the discussion, click the button bellow to see the pdf files. (3) Language note: some professors allow students to select their favorite language of interaction according to professor communications skills, accordingly materials, questions, and answers may appear in these languages. (4) The channel will be open until conference finish the post-publication stage, contact chairpersons for doubts: mol2net.chair@gmail.com Please see the list of invited talks and/or tutoring channels at follows, click on the title of talk/channel to visit it:

#### Lecturer 01

 Prof. [Rosario Isasi](#), Miller School of Medicine, University of Miami **Miami, FL, USA.**

Lecturer Channel: [NEURODAT'21 IBRO-PERC Lecture on Policy Making in Biotech. and Neurosciences](#),  
Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)  
Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 10 January 2022 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12136

#### Lecturer 02

 Prof. [David Quesada](#), Chair Dept. of Mathematics, Miami Dade College (MDC) Wolfson Campus, **Miami.**

Lecturer Channel: [NEURODAT'21 IBRO-PERC Lecture on Brain Networks Dynamics](#),  
Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)  
Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 16 December 2021 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12124

#### Lecturer 03

 Prof. [Cristian R Munteanu](#), PhD. Assoc. Prof., Institute for Biomedical Research (INIBIC), **Coruña.**

Lecturer Channel: [NEURODAT'21 IBRO-PERC Lecture on DeepLearning in Neuroscience](#),  
Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)  
Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 16 December 2021 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12072

#### Lecturer 04

 Dr. **Francisco J Romero-Duran**, PhD. M.D. Neurology, IMQ Zorrotzaurre Clinic, **Bilbao**.

Lecturer Channel: [NEURODAT'21 IBRO-PERC Lecture on Neuroinformatics](#),

Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)

Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 04 December 2021 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12046

#### Lecturer 05

 Prof. **Sonia Arrasate**, Assoc. Prof., Dept. of Org. and Inorg. Chem., UPV/EHU, **Bilbao**.

Lecturer Channel: [NEURODAT'21 IBRO-PERC Talk and Tutoring Channel on Chemical Neurosciences](#),

Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)

Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 21 December 2021 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12091

#### Lecturer 06

 Dr. **Aliuska Duardo-Sanchez**, Ph.D., Dept. of Public Law, Fac. of Law, UPV/EHU, **Bilbao**.

Lecturer Channel: [NEURODAT'21 IBRO-PERC Lecture on Intellectual Property and Intelligent Systems](#),

Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)

Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 21 December 2021 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12094

#### Lecturer 07

 Prof. **Humbert Gonzalez-Diaz**, IKERBASQUE Prof., Dept. of Org. and Inorg. Chem., UPV/EHU, **Bilbao**.

Lecturer Channel: [NEURODAT'21 IBRO-PERC Lecture on Chemoinformatics in Neurosciences](#),

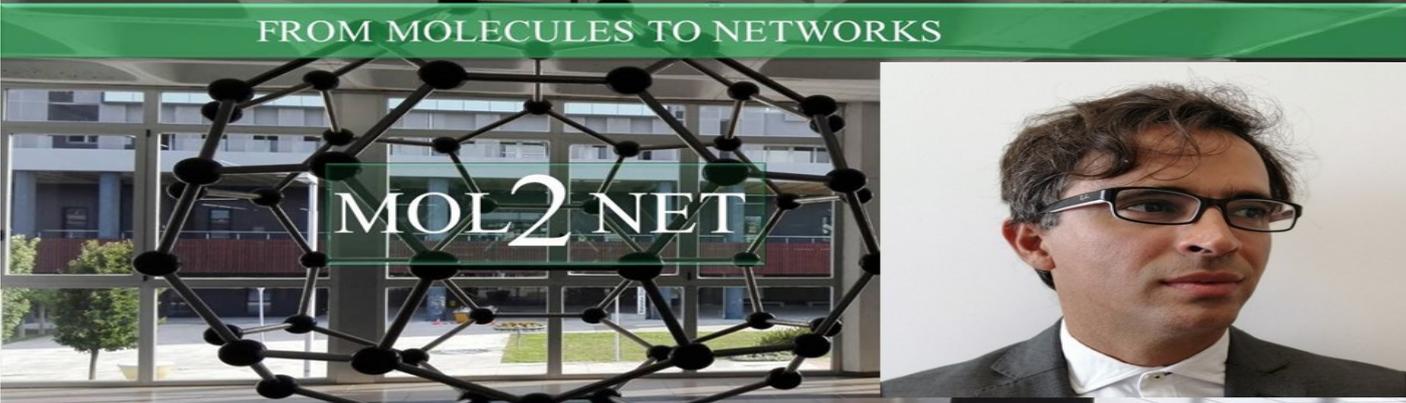
Conference: [MOL2NET'21, Conference on Molec., Biomed. & Comput. Sciences and Engineering, 7th ed.](#)

Congress: [USEDAT-07: USA-Europe Data Analysis Training Congress, Cambridge, UK-Bilbao, Spain-Miami, USA, 2021](#), Published: 21 December 2021 by MDPI in Sciforum Platform, MOL2NET, ISSN: 2624-5078, Basel, Switzerland, 2021. Doi: 10.3390/mol2net-07-12093

**USEDAT-NEURODAT Sponsor Projects:** NEURODAT'21 Course and Workshop are sponsored by IBRO-PERC Soft Training program, 2021, of the **International Brain Research Organization (IBRO)**. USEDAT'21 workshop is also sponsored by the European Commission Project Participatory Approaches to a New Ethical and Legal Framework for ICT (**PANELFIT H2020**) focused on regulatory and data protection issues related to the uses on Information and Communication Technologies (ICTs).

USEDAT-NEURODAT'21 Committee

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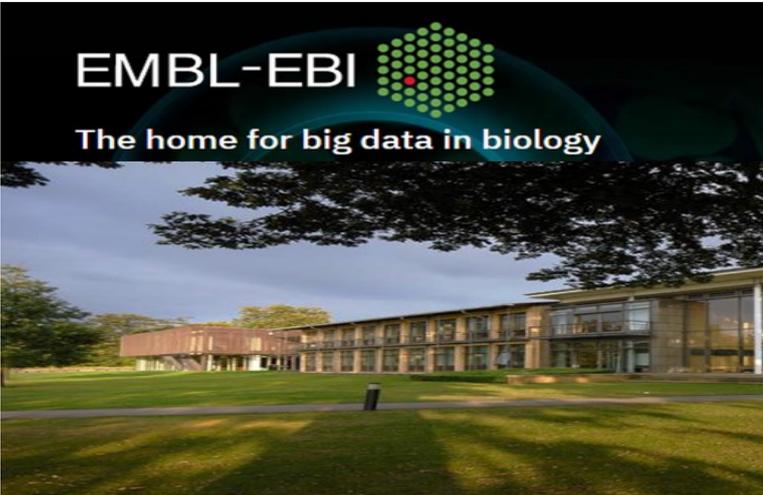
UPV/EHU IKERBASQUE



**Prof. Humbert González-Díaz**  
MOL2NET & USEDAT Chairman  
UPV/EHU, IKERBASQUE, Basque Foundation for Science  
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Dr. [Yasset Perez-Riverol](#), European Bioinformatics Institute(EMBL-EBI), Cambridge, United Kingdom.  
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**Prof. Shira Knafo**  
**IKERBASQUE Professor**  
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Participatory Approaches to a New Ethical and Legal Framework for ICT

## Chair in Law and the Human Genome Research Group




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**Dr. Aiuska Duardo Sanchez** (Ph.D. Legal Informatics) PANELFIT H2020, Project Manager, EDC Board Coord.

**Bioderecho.eu**

**Dr. Aiuska Duardo-Sanchez** (Law.Lic., Ph.D. TICs & Legal Sciences), [Chair in Law & The Human Genome Research Group](#), [PANELFIT H2020](#) Project Manager, Eur. Commission, Fac. of Law, Univ. of Basque Country UPV/EHU, Leioa, Basque Country, Spain. **(NEURODAT'21 IBRO-PERC Coordinator)**, Email: [aliuska.duardo@ehu.es](mailto:aliuska.duardo@ehu.es)

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(MOL2NET Scientific Committee President)

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Research Center on Information and Communication Technologies (CITIC),  
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[Prof. Alejandro Pazos](#), M.D., Director of Dept. of Comput. Sci., Univ. of Coruña (UDC), Coruña Spain.  
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## Bairong Shen

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Biomedical Informatics, Translational  
Informatics, Systems Biology

Prof. **Bairong Shen**, Exec. Dir., Inst. for Systems Genetics, Sichuan University (SCU), **Chengdu, China.**  
(NEURODAT'21 IBRO-PERC Tutor)



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Communications and Information Technologies Department  
University of Coruña, UDC

Prof. **Cristian R Munteanu**, Dept. of Comput. Sci., Univ. of Coruña (UDC), **Coruña, Spain.**  
(NEURODAT'21 IBRO-PERC Tutor)

## USEDAT-NEURODAT'21 Submissions

Id	Title	Authors
sciforum-056950	<b>NEURODAT'21 IBRO-PERC Lecture on Brain Networks Dynamics</b>	David Quesada
sciforum-056705	<b>NEURODAT'21 IBRO-PERC Lecture on Chemical Neurosciences</b>	Sonia Arrasate
sciforum-056723	<b>NEURODAT'21 IBRO-PERC Lecture on Chemoinformatics in Neurosciences</b>	Humbert Gonzalez-Diaz
sciforum-056406	<b>NEURODAT'21 IBRO-PERC Lecture on DeepLearning in Neurosciences</b>	Cristian Munteanu
sciforum-056740	<b>NEURODAT'21 IBRO-PERC Lecture on Intellectual Property and Intelligent Systems</b>	Aliuska Duardo-Sanchez
sciforum-056043	<b>NEURODAT'21 IBRO-PERC Lecture on Neuroinformatics</b>	Francisco Romero-Duran
sciforum-057004	<u>Correlated NAAG metabolism imbalance with 'attention switching/tolerance of change': a biomarker in the actual triad of impairment in autism.</u>	Carmen Jimenez-Espinoza, Francisco Marcano Serrano, José González-Mora
sciforum-052725	<u>Explaining Deep Neural Networks in medical imaging context.</u>	Zakaria rguibi, Abdelmajid hajami, Dya zitouni
sciforum-055692	<u>The voluntary imagination impairment in ASD linked to the neuropeptide N-Acetyl-aspartyl glutamate imbalance on cingulated cortices.</u>	Carmen Jimenez-Espinoza, Francisco Marcano Serrano, José González-Mora

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<b>Id</b>	<b>Title</b>	<b>Authors</b>
sciforum-054833	<u><a href="#">Eye Disorders Associated with newer Antiepileptic drugs: A real-world disproportionality analysis of FDA Adverse Reporting System events</a></u>	Li Chen, Javier Meana, Bairong Shen
sciforum-047538	<u><a href="#">A Significant Study on Emerging Technologies in Smart Cities for Planet Earth during Covid-19 Pandemic</a></u>	Sushmita Chakraborty, Ajit Singh
sciforum-054237	<u><a href="#">Applications of Machine Learning in drug discovery and development</a></u>	Ane Ibáñez Antolín
sciforum-043139	<u><a href="#">Big Data Analytics using IoT</a></u>	Ajit Singh
sciforum-047416	<u><a href="#">Data Lakes Technologies and It's Significant Implementations</a></u>	Ajit Singh, Sultan Ahmad
sciforum-046029	<u><a href="#">Dereplication strategy of HRMS data from <i>Coccoloba cowellii</i> extract</a></u>	Daniel Méndez, Julio César Escalona, Ann Cuypers, Paul Cos, Luc Pieters
sciforum-044510	<u><a href="#">Meteorological Parameter Modeling with Different Soft Computing Techniques</a></u>	NILENDU DAS, Arpit Gupta, Rajarshi Bhattacharjee, Shishir Gaur, Anurag Ohri
sciforum-048659	<u><a href="#">On the Use of Artificial Intelligence in Medicine</a></u>	Laura Acosta, Aliuska Duardo-Sanches
sciforum-053773	<u><a href="#">PTML Artificial Neural Network Chemoinformatics classification model for enantioselective reactions.</a></u>	Shan He
sciforum-055237	<u><a href="#">PTML in optimizing preclinical plasmodium assays</a></u>	Viviana Quevedo-Tumailli, Bernabe Ortega-Tenezaca

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<b>Id</b>	<b>Title</b>	<b>Authors</b>
sciforum-053909	<a href="#"><u>Predictive Modeling with Machine Learning and Perturbation Theory</u></a>	Bernabe Ortega-Tenezaca, Viviana Quevedo-Tumailli
sciforum-048267	<a href="#"><u>Radiowave Propagation Models</u></a>	Ajit Singh
sciforum-052873	<a href="#"><u>Self-explanatory neural models, part 2</u></a>	Zakaria rguibi, Abdelmajid hajami, Dya zitouni
sciforum-049839	<a href="#"><u>Significance of Software Development Models in Current Context</u></a>	Praveen Kumar, Ajit Singh
sciforum-050375	<a href="#"><u>The future of Artificial Intelligence in the European Union.</u></a>	Alena Pérez-Urdanivia
sciforum-055139	<a href="#"><u>Use of machine learning and rare diseases</u></a>	Maxim Belii
sciforum-054718	<a href="#"><u>Using <i>TCGAbiolinks</i> package in ranking breast cancer genes from The Cancer Genome Atlas (TCGA) to predict disease-associated genes</u></a>	Ngan Vu, Uyen BUI
sciforum-055083	<a href="#"><u>Is citral's anti-inflammatory action capable of changing the hypothalamic inflammation in obese mice?</u></a>	Priscila Raimundo, Vinícius Rodrigues, Maycon Emílio-Silva, Victória Gomes, Gabriela Bueno, Lúcia Machado da Rocha, Clélia Hiruma-Lima

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