

Jamil Ahmed

Assistant Professor

Research Centre for Modelling & Simulation

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About

Dr. Jamil Ahmed is working as Assistant Professor in the Research Centre for Modelling & Simulation. Dr. Jamil Ahmed has a PhD in Model Checking, Systems Biology. Dr. Jamil Ahmed has published 18 research articles & conference papers having a citation count of 348, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Model Checking, Systems Biology Ecole Centrale de Nantes , Pakistan	2005 - 2009
MS in Automation And Production Systems Ecole Centrale de Nantes , Pakistan	2004 - 2005
MSc in Databases University of Peshawar , Pakistan	1995 - 1997

Experience

Assistant Professor Research Centre for Modelling & Simulation	2018- Present
Assistant Professor Research Centre for Modelling & Simulation	2015 - 2018
Assistant Professor Research Centre for Modelling & Simulation	2012 - 2015
Assistant Professor Research Centre for Modelling & Simulation	2010 - 2012
Faculty NUST ,	1999 - 2017

Awards

NUST Excellence Award	2017
HEC Best Teacher Award	2016

Research Projects

National Projects	
Formal Analysis of the Impact Feeding on Hepatocyte Cicadian Oscillators Funding Agency: HEC Amount: PKR 1,500,000.00 Status: Completed	2015

International Projects

Research Articles

Identification of self-regulatory network motifs in reverse engineering gene regulatory networks using microarray gene expression data Mehrosh Khalid Sharifullah Khan Jamil Ahmed Muhammad Shaheryar IET Systems Biology , Volume 13, Issue 2, Pages 55-68	2019
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Impact Factor: 1.000 Quartile: 4 Citations: 3 DOI: 10.1049/iet-syb.2018.5001	
Incorporating Time Delays in Process Hitting Framework for Dynamical Modelling of Large Biological Regulatory Networks <i>Iftikhar Ali Sheikh Jamil Ahmed Morgan Magnin Olivier Roux</i> <i>Frontiers in Physiology</i> , Volume 10, Article Number 90 Impact Factor: 2.067 Quartile: 2 Citations: 4 DOI: 10.3389/fphys.2019.00090	2019
Model-based in silico analysis of the PI3K/Akt pathway: the elucidation of cross-talk between diabetes and breast cancer <i>Sammia Rehman Ayesha Obaid Anam Naz Shahzina Kanwal Jamil Ahmed Amjad Ali</i> <i>PeerJ</i> , PeerJ Volume: 6 Impact Factor: 2.358 Quartile: 2 Citations: 9 DOI: 10.7717/peerj.5917	2018
Visualizing the regulatory role of Angiopoietin-like protein 8 (ANGPTL8) in glucose and lipid metabolic pathways <i>Amnah Siddiqi Elisa Cirillo Samar H.K. Tareen Amjad Ali Martina Kutmon Lars M.T. Eijssen Jamil Ahmed Chris T. Evelo Susan L. Coor</i> <i>Genomics</i> , Vol.09 (5-6), Pages 408-418, Oct 2017 Impact Factor: 2.91 Quartile: 2 Citations: 29 DOI: 10.1016/j.ygeno.2017.06.006	2017
Formal modeling and analysis of the hexosamine biosynthetic pathway: role of O-linked N-acetylglucosamine transferase in oncogenesis and cancer progression <i>Rehan Zafar Paracha Muhammad Tariq Saeed Jamil Ahmed Shahzina Kanwal Andreana N. Holowatyj Iftikhar A. Sheikh Muhammad Aamir Shafi Amnah Siddiqi Zurah Bibi Mukaram Khan Amjad Ali</i> <i>PeerJ</i> , Volume 4, Article Number e2348 Impact Factor: 2.177 Quartile: 2 Citations: 15 DOI: 10.7717/peerj.2348	2016
Rheumatoid arthritis: What have we learned about the causing factors? <i>Syed Fazal Jalil Maria Arshad Attiya Bhatti Jamil Ahmed Fazal Akbar Shahid Ali Peter John</i> <i>Pakistan Journal of Pharmaceutical Sciences</i> , Volume 29, No.2, Pages 629-645 Impact Factor: 0.649 Quartile: 4 DOI: -	2016
Petri Net and Probabilistic Model Checking Based Approach for the Modelling, Simulation and Verification of Internet Worm Propagation <i>Jamil Ahmed Misbah Razzaq</i> <i>PLoS ONE</i> , Volume 10(12), Article Number e0145690 Impact Factor: 3.057 Quartile: 1 Citations: 9 DOI: DOI:10.1371/journal.pone.0145690	2015
Identification of Circulating Biomarker Candidates for Hepatocellular Carcinoma (HCC): An Integrated Prioritization Approach <i>Faryal Mehwish Awan Anam Naz Ayesha Obaid Amjad Ali Jamil Ahmad Sadia Anjum Hussnain Ahmed Janjua</i> <i>PLoS ONE</i> , Volume 10(9), Article Number e0138913 Impact Factor: 3.057 Quartile: 1 Citations: 40 DOI: https://doi.org/10.1371/journal.pone.0138913	2015
Identification of putative vaccine candidates against Helicobacter pylori exploiting exoproteome and secretome: A reverse vaccinology based approach <i>Anam Naz Faryal Mehwish Awan Ayesha Obaid Syed Aun Muhammad Rehan Zafar Paracha Jamil Ahmed Amjad Ali</i> <i>Infection, Genetics and Evolution</i> , Volume 32, Pages 280-291 Impact Factor: 3.264 Quartile: 2 Citations: 181 DOI: doi:10.1016/j.meegid.2015.03.027	2015
Modeling and analysis of innate immune responses induced by the host cells against hepatitis C virus infection <i>Rehan Zafar Paracha Ayesha Obaid Jamil Ahmed Anam Naz Faryal Mehwish Awan Samar Hayat Khan Tareen Sadia Anjum Jan Baumbach Amjad Ali Abida Raza</i> <i>Integrative Biology</i> , Volume 7, Issue 5, Pages 544-559 Impact Factor: 3.371 Quartile: 2 Citations: 6 DOI: 10.1039/c4ib00285g	2015

- Structural modeling and analysis of dengue-mediated inhibition of interferon signaling pathway** 2015
Babar Aslam Jamil Ahmed Amjad Ali Rehan Zafar Paracha Samar Hayat Khan Tareen Shah Khusro Taseer Ahmad S.A. Muhammad Umar Niazi V. Azevedo
Genetics and Molecular Research, Volume 14, Issue 2, Pages 4215-4237
Impact Factor: 0.764 | **Quartile:** 4 | **Citations:** 8
DOI: DOI:10.4238/2015.April.28.4
- Helicobacter pylori Virulence Regulatory Network: Insights into the Host-Environment and Pathogen Interactions** 2015
Gul Sanobar Jamil Ahmed Rehan Zafar Paracha Anam Naz Babar Aslam Ayesha Obaid Afreenish Hassan Amjad Ali
NUST Journal of Natural Sciences, Volume 3, Issue 1, Pages 65-77
Impact Factor: N/A
DOI: 10.53992/njns.v3i1.22
- Formal Modelling of Toll like Receptor 4 and JAK/STAT Signalling Pathways: Insight into the Roles of SOCS-1, Interferon- β and Proinflammatory Cytokines in Sepsis** 2014
Rehan Zafar Paracha Jamil Ahmed Amjad Ali Riaz Hussain Umar Niaz Samar Hayat Khan Tareen Babar Aslam
PLoS ONE, Volume 9, Issue 9, Article Number e108466
Impact Factor: 3.234 | **Quartile:** 1 | **Citations:** 33
DOI: 10.1371/journal.pone.0108466
- In silico study of anti-carcinogenic lysyl oxidase-like 2 inhibitors** 2014
Rehan Zafar Paracha Syed Aun Muhammad Amjad Ali Tariq Ismail Umair Ilyas Jamil Ahmed
Computational Biology and Chemistry, Volume 51, Pages 71-82
Impact Factor: 1.117 | **Quartile:** 3 | **Citations:** 10
DOI: 10.1016/j.compbiolchem.2014.03.002
- Conference Proceedings**
- Formal Modeling of the Key Determinants of Hepatitis C Virus (HCV) Induced Adaptive Immune Response Network: An Integrative Approach to Map the Cellular and Cytokine-Mediated Host Immune Regulations** 2018
Ayesha Obaid Anam Naz Shifa T. Ashraf Faryal M. Awan Aqsa Ikram Tariq Saeed Abida Raza Jamil Ahmed Amjad Ali
International Conference on Computational Science and Its Applications, ICCSA 2018, res.country(13,)
Citations: 1
DOI: https://doi.org/10.1007/978-3-319-95171-3_50
- On the Use of Betweenness Centrality for Selection of Plausible Trajectories in Qualitative Biological Regulatory Networks** 2018
Muhammad Tariq Saeed Jamil Ahmed Amjad Ali
6th International Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2018, res.country(68,)
Citations: N/A
DOI: https://doi.org/10.1007/978-3-319-78723-7_47
- Modelling of Adaptive and Innate Immune Responses and Identification of Crosstalk Amongst Various Signaling Pathways Involved in HCV Infection using System Biology Approach** 2018
Ayesha Obaid Anam Naz Faryal M. Awan Aqsa Ikram Jamil Ahmed Amjad Ali
ISERD - 326th International Conference on Medical and Health Sciences (ICMHS), res.country(177,)
Citations: N/A
DOI: 26122017.6280
- Qualitative modeling and analysis of the indoleamine 2,3-dioxygenase regulatory network in homeostasis and disease** 2014
Kashif Asghar Jamil Ahmed Javaria Ashraf Amjad Ali Hussnain Ahmed Janjua Sheeba Murad
2014 11th International Conference on Fuzzy Systems and Knowledge Discovery (FSKD), res.country(48,)
Citations: N/A
DOI: 10.1109/FSKD.2014.6980886