

Saima Zafar

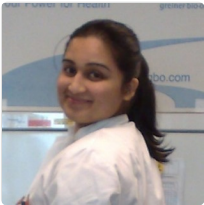
Professor

School of Mechanical & Manufacturing Engineering

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About

Dr. Saima Zafar is working as Professor in the School of Mechanical & Manufacturing Engineering. Dr. Saima Zafar has a PhD in Neurosciences. Dr. Saima Zafar has published 73 research articles & conference papers having a citation count of 1470, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Neurosciences Georg-August Universität Göttingen , Germany	2007 - 2011
MPhil in Molecular Biology University of the Punjab , Pakistan	2005 - 2007
MS in Zoology University of the Punjab , Pakistan	2004 - 2005
BS in Zoology University of the Punjab , Pakistan	2000 - 2003

Experience

Professor School of Mechanical & Manufacturing Engineering	2024- Present
Professor School of Mechanical & Manufacturing Engineering	2022 - 2024
Professor School of Mechanical & Manufacturing Engineering	2021 - 2022
Associate Professor School of Mechanical & Manufacturing Engineering	2019 - 2021
principle investigator Neurology, Universitätsmedizin Göttingen (UMG), , robert kock str 40 Goettingen Germany	2011 - 2018
research scientist Department of Clinical Chemistry, Universitätsmedizin Göttingen (UMG), , robert kock str 40 goettingen germany	2007 - 2011

Awards

University of the Punjab Merit Scholarship, University of the Punjab, Lahore, Pakistan	2020
HAI-IDR Research grant- Helmholtz-Alberta Initiative-Infectious Diseases Research (HAI-IDR)	2013
Human prions Research grant- Human prions – distinguishing sporadic from familial forms via structure and function – 201300024	2013
European Union Post-Doctoral fellowship, Protecting the food chain from prions (Priority) European Union (EU) funded projects to evaluate the epidemiology and surveillance of CJD subtypes	2011
UMG germany Post-Doctoral fellowship, DGKL-funding, “Kidney fibrosis and Mycophenolic acid”	2011
European Union (EU) Ph.D. fellowship, 6th framework European Union (EU)- funded project, “Identification of potential biomarkers of CJD using STrePTM technology and proteomics”.	2007
University of the Punjab Gold Medal, Role of Honor, M.Sc. Department of Zoology, University of the Punjab, Lahore, Pakistan	2004
University of the Punjab Gold Medal, Role of Honor, B.Sc (Hons.) Department of Zoology, University of the Punjab, Lahore, Pakistan	2003

Research Projects

National Projects	
Identification and characterization of Tau hyperphosphorylation role in the spread of tau pathology, an attractive therapeutic target in Alzheimer’s disease Funding Agency: HEC Amount: PKR 8,510,000.00 Status: Completed	2021
International Projects	
3D Organoid Culture: In Vitro Models to decipher the Role of exosomal Tau in Alzheimer’s disease Funding Agency: International Brain Research Organization france Amount: PKR 1,791,561.74 Status: Approved_inprocess	2023

Research Articles

Chenodeoxycholic Acid-Mediated neuroprotection via α-synuclein and BDNF Modulation in MPTP-Induced mouse model of Parkinson’s disease <i>Mehwish Mehreen Mehak Ali Huraira Tariq Aneeqa Noor Sara Mumtaz Saima Zafar</i> <i>Neuroscience</i> , Volume:573, Pages: 442-450 Impact Factor: 2.9 Quartile: 2 DOI: https://doi.org/10.1016/j.neuroscience.2025.03.050	2025
Alpha-Synuclein Demonstrates Varying Binding Affinities With Different Tau Isoforms <i>Anna-Lisa Fischer Matthias Schmitz Saima Zafar Neelam Younas Susana da Silva Correia Angela da Silva Correia Sezgi Canaslan Eyyuboglu Inga Zerr Tobias Thom</i> <i>Journal of Neurochemistry</i> , Volume 169, Issue 4, Article Number e70053 Impact Factor: 4.200 Quartile: 2 DOI: 10.1111/jnc.70053	2025
Multiomic analyses direct hypotheses for Creutzfeldt-Jakob disease risk genes <i>Fahri Küçükalı Elizabeth Hill Tijs Watzeels Holger Hummerich Steven Collins Gabor G Kovacs Michael D Geschwind Karl Frontzek Ellen Gelpi Cornelia M var Duijn Pawel P Liberski Pascual Sanchez-Juan Jean-Louis Laplanche Anna Ladogana Saima Zafar Aušrinė Areškevičiūtė Katie Glisic Inga Zerr Pierluigi Gambetti John Collinge Simon Mead</i> <i>Brain</i> , Pages 1-14 Impact Factor: 11.900 Quartile: 1 DOI: 10.1093/brain/awaf032	2025

Genetic assessment of apolipoprotein E polymorphism and PRNP genotypes in rapidly progressive dementias in Pakistan <i>Urwah Rasheed Minahil Khalid Aneeqa Noor Umar Saeed Rizwan Uppal Saima Zafar</i> <i>Prion</i> , Volume 18, Issue 1, Pages 1-7 Impact Factor: 1.900 Quartile: 4 DOI: 10.1080/19336896.2024.2439598	2024
Genome wide association study of clinical duration and age at onset of sporadic CJD <i>Holger Hummerich Helen Speedy Tracy Campbell Lee Darwent Elizabeth Hill Steven Collins Christiane Stehmann Gabor G Kovacs Michael D Geschwind Karl Frontzek Herbert Budka Adriano Aguzzi Sven J van der Lee Cornelia M. van Duijn Saima Zafar Stephanie Booth Inga Zerr Simon Mead Ellen Gelpi Pawel P. Liberski Miguel Calero Pascual Sanchez-Juan Elodie Bouaziz-Amar Jean-Louis Laplanche Ste'phane Haik Jean-Phillipe Brandel Angela Mammana Sabina Capellari Anna Poleggi Anna Ladogana Maurizio Pocchiari Gerard H. Jansen Aušrinė Areškevičiūtė Eva Løbner Lund Katie Glisic Piero Parchi Peter Hermann Brian S. Appleby Jiri Safar Pierluigi Gambetti John Collinge</i> <i>Plos One</i> , Volume 19(7), Article Number e0304528 Impact Factor: 2.900 Quartile: 1 Citations: 1 DOI: 10.1371/journal.pone.0304528	2024
Therapeutic Potential of Nitrogen-Doped Rutin-Bound Glucose Carbon Dots for Alzheimer's Disease <i>Sana Khan Faria Hasan Jatala Alveena Muti Noor Afza Aneeqa Noor Sara Mumtaz Saima Zafar</i> <i>The Yale Journal of Biology and Medicine</i> , Volume 97(2), Pages 153-164 Impact Factor: 2.500 Quartile: 2 Citations: 4 DOI: 10.59249/EWOI2166	2024
Prevention of Chronic Diabetic Neuropathy and Diabetes-Associated Cognitive Impairment Using Medicinal Herbs (Cassia Angustifolia and Nigella Sativa) <i>Mahum Khan Hibba Riaz Faria Hasan Jatala Aneeqa Noor Sara Mumtaz Saima Zafar</i> <i>The Yale Journal of Biology and Medicine</i> , Volume 97(2), Pages 141-152 Impact Factor: 2.500 Quartile: 2 Citations: 1 DOI: 10.59249/UQLO8012	2024
Differential interactome mapping of aggregation prone/prion-like proteins under stress: novel links to stress granule biology <i>Neelam Younas Saima Zafar Tayyaba Saleem Leticia Camila Fernandez Flores Abrar Younas Matthias Schmitz Inga Zerr</i> <i>Cell and Bioscience</i> , Volume 13, Issue 1, Article Number 221 Impact Factor: 6.100 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1186/s13578-023-01164-7	2023
Genetic Variants Associated with the Age of Onset Identified by Whole-Exome Sequencing in Fatal Familial Insomnia <i>Katrin Thüne Matthias Schmitz John Wiedenhöft Orr Shomroni Stefan Göbe Timothy Bunck Neelam Younas Saima Zafar Peter Hermann Inga Zerr</i> <i>Cells</i> , Volume 12, Issue 16, Article Number 2053 Impact Factor: 5.100 Quartile: 2 DOI: https://doi.org/10.3390/cells12162053	2023
The Role of Tau Proteoforms in Health and Disease <i>Zuha Waheed Jawaria Choudhary Faria Hasan Jatala Fatimah Aneeqa Noor Inga Zerr Saima Zafar</i> <i>Molecular Neurobiology</i> , Pages 1-12 Impact Factor: 5.1 Quartile: 2 Citations: 16 DOI: 10.1007/s12035-023-03387-8	2023
SWATH Mass Spectrometry-Based CSF Proteome Profile of GBA-Linked Parkinson's Disease Patients <i>Saima Zafar Aneeqa Noor Neelam Younas Mohsin Shafiq Matthias Schmitz Kathrin Brockmann Isabel Wurster Thomas Gasser Inga Zerr</i> <i>International Journal of Molecular Sciences</i> , Volume 23(22), Article Number 14166 Impact Factor: 6.208 Quartile: 1 Citations: 4 DOI: https://doi.org/10.3390/ijms232214166	2022
Molecular Profiles of Amyloid-β Proteoforms in Typical and Rapidly Progressive Alzheimer's Disease <i>Aneeqa Noor Saima Zafar Mohsin Shafiq Neelam Younas Anna Siegert Florian A Mann Sebastian Kruss Mathias Schmitz Hassan Dihazi Isidre Ferrer Inga Zerr</i> <i>Molecular Neurobiology</i> , Volume 59, Pages 17-34 Impact Factor: 5.686 Quartile: 2 Citations: 13 DOI: 10.1007/s12035-021-02566-9	2022
Molecular Profiles of Amyloid-β Proteoforms in Typical and Rapidly Progressive Alzheimer's Disease <i>Aneeqa Noor Saima Zafar Mohsin Shafiq Neelam Younas Anna Siegert Florian A. Mann Sebastian Kruss Matthias Schmitz Hassan Dihazi Isidre Ferrer Inga</i>	2021

Zerr

Molecular Neurobiology , Pages 1-18

Impact Factor: 5.1 | **Quartile:** 2 | **Citations:** 13

DOI: <https://doi.org/10.1007/s12035-021-02566-9>

Cellular Prion Protein Mediates α -Synuclein Uptake, Localization, and Toxicity In Vitro and In Vivo

2021

Matthias Schmitz Angela Correia Franc Llorens Anna-Villar Pique Renato Domingues Erik Stoops Andre Fischer Tobias Thom Anna-Lisa Fischer Susana Correia Wiebke Möbius Saima Zafar Christopher J. Silva Tiago F. Outeiro Inga Zerr

Movement Disorders , Pages 1-14

Impact Factor: 9.698 | **Quartile:** 1 | **Citations:** 17

DOI: <https://doi.org/10.1002/mds.28774>

Distribution of microRNA profiles in pre-clinical and clinical forms of murine and human prion disease

2021

Lesley Cheng Camelia Quek Xia Li Shayne A. Bellingham Laura J. Ellett Mitch Shambrook Saima Zafar Inga Zerr Victoria A. Lawson Andrew F. Hill

Communications Biology , Volume 4(1), Article Number 411

Impact Factor: 6.548 | **Quartile:** 1 | **Citations:** 11

DOI: <https://doi.org/10.1038/s42003-021-01868-x>

Prion protein oligomers cause neuronal cytoskeletal damage in rapidly progressive Alzheimer's disease

2021

Mohsin Shafiq Saima Zafar Neelam Younas Aneeqa Noor Berta Puig Hermann Clemens Altmeyden Matthias Schmitz Jakob Matschke Isidre Ferrer Markus Glatzel Inga Zerr

Molecular Neurodegeneration , Volume 16, Issue 1, Article Number: 11

Impact Factor: 18.897 | **Quartile:** 1 | **Citations:** 19

DOI: <https://doi.org/10.1186/s13024-021-00422-x>

Neurodegenerative Proteinopathies in the Proteoform Spectrum -Tools and Challenges

2021

Saima Zafar Aneeqa Noor Inga Zerr

International Journal of Molecular Sciences , Volume 22(3), Article Number 1085

Impact Factor: 4.556 | **Quartile:** 1 | **Citations:** 13

DOI: <https://doi.org/10.3390/ijms22031085>

Optimization of the Real-Time Quaking-Induced Conversion Assay for Prion Disease Diagnosis

2020

Inga Zerr Maria Cramm Susana Margarida da Silva Correia Saima Zafar Franc Llorens Matthias Schmitz Anna Villar-Piqué

Frontiers in Bioengineering and Biotechnology , Volume 8, Article Number 586890

Impact Factor: 5.890 | **Quartile:** 1 | **Citations:** 6

DOI: <https://doi.org/10.3389/fbioe.2020.586890>

Identification of novel risk loci and causal insights for sporadic Creutzfeldt-Jakob disease: a genome-wide association study

2020

Saima Zafar Emma Jones Holger Hummerich Emmanuelle Viré James Uphill Athanasios Dimitriadis Prof Simon Mead Helen Speedy Tracy Campbell Penny Norsworthy Liam Quinn Jerome Whitfield Jacqueline Linehan Zane Jaunmuktane Sebastian Brandner Parmjit Jat Akin Nihat Tze How Mok Parvin Ahmed Steven Collins Christiane Stehmann Shannon Sarros Gabor G Kovacs Michael D Geschwind Aili Golubjatniko Karl Frontzek Herbert Budka Adriano Aguzzi Hata Karamuji?-?omi? Sven J van der Lee Carla A Ibrahim-Verbaas Cornelia M van Duijn Beata Sikorska Ewa Golanska Pawel P Liberski Miguel Calero Olgu Calero Pascual Sanchez-Juan Pascual Sanchez-Juan Antonio Salas Federico Martínón-Torres Elodie Bouaziz-Amar Stéphane Haïk Jean-Louis Laplanche Jean-Phillipe Brandel Phillipe Amouyel Jean-Charles Lambert Piero Parchi Anna Bartoletti-Stella Sabina Capellari Anna Poleggi Maurizio Pocchiari Serena Aneli Giuseppe Matullo Katie Glisic Inga Zerr Brian Appleby Pierluigi Gambetti Gerard H Jansen Jiri Safar John Collinge

Lancet Neurology , Volume 19, Issue 10, Pages 840-848

Impact Factor: 44.182 | **Quartile:** 1 | **Citations:** 40

DOI: [https://doi.org/10.1016/S1474-4422\(20\)30273-8](https://doi.org/10.1016/S1474-4422(20)30273-8)

Unveiling the Physical and Functional Niches of FAM26F by Analyzing Its Subcellular Localization and Novel Interacting Partners

2020

Uzma Malik Saima Zafar Neelam Younas Inga Zerr Aneela Javed

ACS Omega , Volume 5(35), Pages 22008-22020

Impact Factor: 3.512 | **Quartile:** 2 | **Citations:** 4

DOI: <https://doi.org/10.1021/acsomega.0c01249>

SFPQ and Tau: critical factors contributing to rapid progression of Alzheimer's disease

2020

Aneeqa Noor Inga Zerr Neelam Younas Saima Zafar Mohsin Shafq Anna Siegert Amandeep Singh Arora Alexey Galkin Ayesha Zafar Mathias Schmitz Christine Stadelmann-Nessler Olivier Andréoletti Isidre Ferrer

Acta Neuropathologica , Pages 1-23

Impact Factor: 17.088 | **Quartile:** 1 | **Citations:** 55

DOI: <https://doi.org/10.1007/s00401-020-02178-y>

- The role of cellular prion protein in lipid metabolism in the liver** 2020
Saima Zafar Sabine Mihm Prateek Kumar Katrin Thüne Mohsin Shafiq Matthias Schmitz Umair Latif Waqas Tahir Amandeep Singh Arora Franc Llorens Inga Zerr
Prion , Volume 14, No. 1, Pages 95-108
Impact Factor: 3.931 | **Quartile:** 2
DOI: 10.1080/19336896.2020.1729074.
- Chromogranin A Analysis in the Differential Diagnosis Across Lewy Body Disorders.** 2020
Saima Zafar Fabian Maass Inga Zerr Karin Gmitterova Daniela Varges Matthias Schmitz Paul Lingor
Journal of Alzheimer's Disease , Volume 73, No. 4, Pages 1355-1361
Impact Factor: 4.472 | **Quartile:** 2 | **Citations:** 10
DOI: 10.3233/JAD-191153
- Effect of the micro-environment on α -synuclein conversion and implication in seeded conversion assays** 2020
Niccolo Candelise Katrin Thüne Alberto Rabano Erik Stoops Anna Villar-Pique Matthias Schmitz Maria Cramm Hugo Vanderstichele Franc Llorens Inga Zerr Saima Zafar
Translational Neurodegeneration , Vol. 9, Article Number 5, Pages 1-16
Impact Factor: 8.014 | **Quartile:** 1 | **Citations:** 55
DOI: 10.1186/s40035-019-0181-9
- The cellular prion protein and its derived fragments in human prion diseases and their role as potential biomarkers** 2019
Saima Zafar Katrin Thüne Matthias Schmitz Anna Villar-Piqué Altmeyen HC Schlomm M Glatzel M Llorens F Zerr I
Expert Review of Molecular Diagnostics , 1-12
Impact Factor: 4.096 | **Quartile:** 1 | **Citations:** 6
DOI: 10.1080/14737159.2019.1667231
- Increased expression of heme-binding protein 1 1 early in Alzheimer's 2 disease is linked to neurotoxicity** 2019
Saima Zafar Oleksandr Yagensky Mahdokht Kohansal-Nodehi Saravanan Gunaseelan Tamara Rabe Inga Zerr Wolfgang Härtig Henning Urlaub John JE Chua
eLife , Volume 8, No e47498
Impact Factor: 7.080 | **Quartile:** 1
DOI: 10.7554/eLife.47498.001
- Cadmium induces GAPDH- and MDH mediated delayed cell aging and dysfunction in *Candida tropicalis* 3Aer.** 2019
Saima Zafar Zaman Khan Muhammad Atif Nisar Saima Zafar Inga Zerr Abdul Rehman
Environmental Monitoring and Assessment , Volume 191, Issue 8, Article Number 490
Impact Factor: 1.903 | **Quartile:** 3 | **Citations:** 4
DOI: 10.1007/s10661-019-7631-9
- Cerebrospinal fluid total and phosphorylated α -synuclein in patients with Creutzfeldt–Jakob disease and synucleinopathy** 2019
Matthias Schmitz Anna Villar-Piqué Franc Llorens Karin Gmitterová, Peter Hermann Daniela Varges Saima Zafar Paul Lingor Hugo Vanderstichele Leentje Demeyer Erik Stoops John Q Trojanowski Virginia M-Y Lee Inga Zerr
Molecular Neurobiology , Volume 56, Pages 3476-3483
Impact Factor: 4.5 | **Quartile:** 1 | **Citations:** 23
DOI: <https://doi.org/10.1007/s12035-018-1313-4>
- Seeding variability of different alpha synuclein strains in synucleinopathies.** 2019
Saima Zafar Niccolò Candelise Matthias Schmitz Franc Llorens Anna Villar-Piqué Maria Cramm Tobias Thom Susana Margarida da Silva Correia José Eriton Gomes da Cunha Wiebke Möbius Tiago F. Outeiro Valentina González Alvarez Martina Banchelli Cristiano D'Andrea Marella de Angelis Alberto Rabano Paolo Matteini Inga Zerr
Annals of Neurology , Volume 85, Issue 5, Pages 691-703
Impact Factor: 9.037 | **Quartile:** 1 | **Citations:** 92
DOI: 10.1002/ana.25446
- Cytoskeleton-Associated Risk Modifiers Involved in Early and Rapid Progression of Sporadic Creutzfeldt-Jakob Disease** 2018
Saima Zafar Neelam Younas Nadeem Sheikh Waqas Tahir Mohsin Shafiq Matthias Schmitz Isidre Ferre Olivier Andréoletti Inga zerr
Molecular Neurobiology , Volume 55, Pages 4009–4029
Impact Factor: 4.586 | **Quartile:** 1 | **Citations:** 12
DOI: <https://doi.org/10.1007/s12035-017-0589-0>

Validation of α-synuclein as a CSF biomarker for sporadic Creutzfeldt-Jakob disease <i>Franc Llorens Niels Kruse André Karch Matthias Schmitz Saima Zafar Nadine Gotzmann Ting Sun Silja Köchy Maria Cramm Ewa Golansk Beata Sikorska Pawel P. Liberski Raquel Sánchez-Valle Andre Fischer Brit Mollenhauer Inga Zerr Tobias Knipper</i> <i>Molecular Neurobiology</i> , Volume 55, Pages 2249–2257 Impact Factor: 4.586 Quartile: 1 Citations: 36 DOI: https://doi.org/10.1007/s12035-017-0479-5	2018
Animal TSEs and public health: What remains of past lessons? <i>Saima Zafar Mohsin Shafiq Olivier Andreoletti Inga zerr</i> <i>PLoS Pathogens</i> , Volume 14(2), Article Number e1006759 Impact Factor: 6.463 Quartile: 1 Citations: 1 DOI: https://doi.org/10.1371/journal.ppat.1006759	2018
Regional and subtype-dependent miRNA signatures in sporadic Creutzfeldt-Jakob disease are accompanied by alterations in miRNA silencing machinery and biogenesis <i>Franc Llorens Katrin Thüne Eulàlia Martí Dimitra Dafou Ana Vivancos Orr Shomroni Saima Zafar Daniela D?az-Lucena Matthias Schmitz Uwe Michel Natalia Ferna?ndez-Borges Olivier Andre?oletti Jose Antonio del R?o Juana D?ez Andre Fischer Stefan Bonn Theodoros Sklaviadis Juan Maria Torres Isidre Ferrer Inga Zerr</i> <i>PLoS Pathogens</i> , Volume 14(1), Article Number e1006802 Impact Factor: 6.463 Quartile: 1 Citations: 24 DOI: https://doi.org/10.1371/journal.ppat.1006802	2018
Cellular prion protein mediates early apoptotic proteome alternation and phospho-modification in human neuroblastoma cells <i>Saima Zafar Christina Behrens Hassan Dihazi Matthias Schmitz Inga Zerr Walter J Schulz-Schaeffer Sanja Ramljak Abdul R Asif</i> <i>Cell Death & Disease</i> , Volume 8, Article Number 2557 Impact Factor: 5.959 Quartile: 1 Citations: 9 DOI: https://doi.org/10.1038/cddis.2016.384	2018
Molecular Alterations in the Cerebellum of Sporadic Creutzfeldt–Jakob Disease Subtypes with DJ-1 as a Key Regulator of Oxidative Stress <i>Waqas Tahir Saima Zafar Franc Llorens Amandeep Singh Arora Katrin Thüne Matthias Schmitz Nadine Gotzmann Niels Kruse Brit Mollenhauer Juan Maria Torres Olivier Andréoletti Isidre Ferrer Inga Zerr</i> <i>Molecular Neurobiology</i> , Volume 55, Pages 517–537 Impact Factor: 4.586 Quartile: 1 Citations: 10 DOI: DOI 10.1007/s12035-016-0294-4	2018
Molecular basis of Cd+ 2 stress response in Candida tropicalis <i>Zaman Khan Muhammad Atif Nisar Saima Zafar Syed Zajif Hussain Inga Zerr Irshad Hussain Muhammad Waseem Muhammad Arif</i> <i>Applied Microbiology and Biotechnology</i> , Volume 101, Pages 7715–7728 Impact Factor: 3.340 Quartile: 2 Citations: 11 DOI: https://doi.org/10.1007/s00253-017-8503-2	2017
Applications of the real-time quaking-induced conversion assay in diagnosis, prion strain-typing, drug pre-screening and other amyloidopathies <i>Niccolò Candelise Matthias Schmitz Susana Margarida Da Silva Correia, Amandeep Singh Arora Anna Villar-Pique Saima Zafar Franc Llorens Maria Cramm Inga Zerr</i> <i>Expert Review of Molecular Diagnostics</i> , Volume 17, Issue 10, Pages 897-904 Impact Factor: 3.326 Quartile: 1 Citations: 17 DOI: https://doi.org/10.1080/14737159.2017.1368389	2017
Prion Protein Interactome: Identifying Novel Targets in Slowly and Rapidly Progressive Forms of Alzheimer's Disease <i>Saima Zafar Mohsin Shafiq Neelam Younas Matthias Schmitz Isidre Ferrer Inga Zerr</i> <i>Journal of Alzheimer's Disease</i> , Volume 59, No. 1, Pages 265-275 Impact Factor: 3.476 Quartile: 2 Citations: 19 DOI: DOI: 10.3233/JAD-170237	2017
Subtype Specific CSF Biomarkers in Sporadic Creutzfeldt-Jakob Disease <i>Inga Zerr Saima Zafar Neelam Younas</i> <i>Journal of Alzheimer's Disease & Parkinsonism</i> , Volume 7, Issue 3, Article Number 1000332 Impact Factor: 0 DOI: 10.4172/2161-0460.1000332	2017
Evaluation of α-synuclein as a novel cerebrospinal fluid biomarker in different forms of prion diseases	2017

Franc Llorens Niels Kruse Matthias Schmitz Nadine Gotzmann Ewa Golanska Katrin Thüne Orgeta Zejneli Eirini Kanata Tobias Knipper Maria Cramm Peter Lange Saima Zafar Beata Sikorska Pawel P Liberski Eva Mitrova Daniela Vargas Christian Schmidt Theodoros Sklaviadis Brit Mollenhauer Inga Zerr
Alzheimer's and Dementia , Volume 13, Issue 6, Pages 710-719

Impact Factor: 12.764 | **Quartile:** 1 | **Citations:** 49

DOI: <https://doi.org/10.1016/j.jalz.2016.09.013>

Effect of Metformin on Adult Hippocampal Neurogenesis: Comparison with Donepezil and Links to Cognition

2017

Sara Ahmed Zahra Mahmood Shoaib Naiyer Hashmi Inga Zerr Saima Zafar Aneela Javed Saadia Zahid
Journal of Molecular Neuroscience , Volume 62, Issue 1, Pages 88-98

Impact Factor: 2.454 | **Quartile:** 3 | **Citations:** 60

DOI: 10.1007/s12031-017-0915-z

Biosorption behavior and proteomic analysis of Escherichia coli P4 under cadmium stress

2017

Zaman Khan Abdul Rehman Muhammad Atif Nisar Saima Zafar Inga Zerr
Chemosphere , Volume 174, Pages 136-147

Impact Factor: 4.427 | **Quartile:** 1 | **Citations:** 19

DOI: <https://doi.org/10.1016/j.chemosphere.2017.01.132>

Altered Ca²⁺ homeostasis induces Calpain-Cathepsin axis activation in sporadic Creutzfeldt-Jakob disease

2017

Franc Llorens Katrin Thüne Beata Sikorska Matthias Schmitz Waqas Tahir Natalia Fernández-Borges Maria Cramm Nadine Gotzmann Margarita Carmona Nathalie Streichenberger Uwe Michel Saima Zafar Anna-Lena Schuetz Ashish Rajput Olivier Andréoletti Stefan Bonn Andre Fischer Pawel P Liberski Juan Maria Torres Isidre Ferrer Inga Zerr
Acta Neuropathologica Communications , Volume 5(1), Article Number 35

Impact Factor: 5.414 | **Quartile:** 1 | **Citations:** 36

DOI: <https://doi.org/10.1186/s40478-017-0431-y>

Dementia with Lewy bodies: molecular pathology in the frontal cortex in typical and rapidly progressive forms

2017

Paula Garcia-Esparcia Irene Lopez-Gonzalez Oriol Grau-Rivera María Francisca García-Garrido Anusha Konetti Franc Llorens Saima Zafar Margarita Carmona José Antonio del Río Inga Zerr Ellen Gelpi Isidro Ferrer
Frontiers in Neurology , Volume 8, Article Number 89

Impact Factor: 3.508 | **Quartile:** 2 | **Citations:** 46

DOI: <https://doi.org/10.3389/fneur.2017.00089>

Strain-specific altered regulatory response of Rab7a and Tau in Creutzfeldt-Jakob disease and Alzheimer's disease

2017

Waqas Tahir Matthias Schmitz Olivier Andréoletti Saima Zafar Neelam Younas Susana Correia Mohsin Shafiq Isidre Ferrer Inga Zerr
Molecular Neurobiology , Volume 54, Pages 697-709

Impact Factor: 5.076 | **Quartile:** 1 | **Citations:** 23

DOI: DOI 10.1007/s12035-016-9694-8

Regulation of human cerebrospinal fluid malate dehydrogenase 1 in sporadic Creutzfeldt-Jakob disease patients

2016

Matthias Schmitz Franc Llorens Alexander Pracht Tobias Thom Ângela Correia Saima Zafar Isidre Ferrer Inga Zerr
Aging , Volume 8(11), Pages 2927–2935

Impact Factor: 4.867 | **Quartile:** 2 | **Citations:** 15

DOI: doi: 10.18632/aging.101101

Stratification by genetic and demographic characteristics improves diagnostic accuracy of cerebrospinal fluid biomarkers in rapidly progressive dementia

2016

André Karch Franc Llorens Matthias Schmitz Amandeep Singh Arora Saima Zafar Peter Lange Christian Schmidt Inga Zerr
Journal of Alzheimer's Disease , Volume 54(4), Pages 1385-1393

Impact Factor: 3.731 | **Quartile:** 2 | **Citations:** 6

DOI: DOI: 10.3233/JAD-160267

The real-time quaking-induced conversion assay for detection of human prion disease and study of other protein misfolding diseases

2016

Saima Zafar Matthias Schmitz Maria Cramm Franc Llorens Dominik Müller-Cramm Steven Collins Ryuichiro Atarashi Katsuya Satoh Christina D Orrù Bradley R Groveman Walter J Schulz-Schaeffer Byron Caughey Inga Zerr
Nature Protocols , Volume 11(11), Pages 2233–2242

Impact Factor: 10.032 | **Quartile:** 1 | **Citations:** 108

DOI: <https://doi.org/10.1038/nprot.2016.120>

- Application of an in vitro-amplification assay as a novel pre-screening test for compounds inhibiting the aggregation of prion protein scrapie** 2016
- Matthias Schmitz Maria Cramm Franc Llorens Niccolò Candelise Dominik Müller-Cramm Daniela Vargas Walter J. Schulz-Schaeffe Saima Zafar Inga Zerr
Scientific Reports , Volume 6, Article Number 28711
Impact Factor: 4.259 | **Quartile:** 1 | **Citations:** 31
DOI: <https://doi.org/10.1038/srep28711>
- Application of capillary immunoelectrophoresis revealed an ageand gender-dependent regulated expression of PrPC in liver** 2015
- Amandeep Singh Arora Saima Zafar Otto Kollmar Franc Llorens Waqas Tahir Sven Vanselow Prateek Kumar Mary Jo Schmerr Matthias Schmitz Inga Zerr
Electrophoresis , Volume 36, Issue 24, Pages 3026-3033
Impact Factor: 2.482 | **Quartile:** 2 | **Citations:** 5
DOI: DOI 10.1002/elps.201500244
- Novel Biomarkers and the Diagnosis of Prion Diseases** 2015
- Saima Zafar Neelam Younas Inga Zer
Journal of Molecular Biomarkers & Diagnosis , Volume 8, Pages 1-4
Impact Factor: 0
DOI: DOI: 10.4172/2155-9929.S8-011
- Quantification of CSF biomarkers using an electrochemiluminescence-based detection system in the differential diagnosis of AD and sCJD** 2015
- Franc Llorens Saima Zafar Niels Kruse Matthias Schmitz Mohsin Shafiq Jose Eriton Gomes da Cunha Nadine Gotzman Katrin Thune Joao Ricardo Mendes de Oliveira Brit Mollenhauer Inga zerr
Journal of Neurology , Volume 262, Pages 2305-2311
Impact Factor: 3.408 | **Quartile:** 2 | **Citations:** 20
DOI: DOI 10.1007/s00415-015-7837-x
- Cellular prion protein directly interacts with and enhances lactate dehydrogenase expression under hypoxic conditions** 2015
- Sanja Ramljak Matthias Schmitz Saima Zafar Arne Wrede Sara Schenkel Abdul R Asif Julie Carimalo Thorsten R Doeppner Walter J Schulz-Schaeffer Jens Weise Inga zerr
Experimental Neurology , Volume 271, Pages 155-167
Impact Factor: 4.657 | **Quartile:** 1 | **Citations:** 22
DOI: <https://doi.org/10.1016/j.expneurol.2015.04.025>
- Cytokine profiles and the role of cellular prion protein in patients with vascular dementia and vascular encephalopathy** 2015
- Saima Zafar Matthias Schmitz Peter Hermann Katharina Stoeck Elisabeth Ebert Tatjana Poliakova Christian Schmidt, Franc Llorens Inga zerr Pantelis Oikonomou
Neurobiology of Aging , Volume 36, Issue 9, Pages 2597-2606
Impact Factor: 5.153 | **Quartile:** 1 | **Citations:** 43
DOI: <https://doi.org/10.1016/j.neurobiolaging.2015.05.013>
- Subtype and regional regulation of prion biomarkers in sporadic Creutzfeldt–Jakob disease** 2015
- Franc Llorens Saima Zafar Belén Ansoleaga Mohsin Shafiq Rosi Blanco Marga Carmona Oriol Grau-Rivera Carlos Nos Ellen Gelpí José Antonio Del Río Inga Zerr Isidre Ferrer
Neuropathology and Applied Neurobiolog , Volume 41, Issue 5, Pages 631-645
Impact Factor: 4.483 | **Quartile:** 1 | **Citations:** 21
DOI: <https://doi.org/10.1111/nan.12175>
- Cerebrospinal fluid tau levels are a marker for molecular subtype in sporadic Creutzfeldt-Jakob disease** 2015
- Andre Karch Peter Hermann Claudia Ponto Matthias Schmitz Amandeep Arora Saima Zafar Franc Llorens Annika Muller-Heine Inga Zerr
Neurobiology of Aging , Volume 36, Issue 5, Pages 1964-1968
Impact Factor: 5.153 | **Quartile:** 1 | **Citations:** 31
DOI: <https://doi.org/10.1016/j.neurobiolaging.2015.01.021>
- Characteristic CSF prion seeding efficiency in humans with prion diseases** 2015
- Maria Cramm Matthias Schmitz André Karch Saima Zafar Daniela Vargas Eva Mitrova Bjoern Schroeder Alex Raeber Franziska Kuhn Inga Zerr
Molecular Neurobiology , Volume 51, Issue 1, Pages 396-405
Impact Factor: 5.397 | **Quartile:** 1 | **Citations:** 94
DOI: 10.1007/s12035-014-8709-6
- Subtype and regional-specific neuroinflammation in sporadic Creutzfeldt–Jakob disease** 2014
- Franc Llorens Irene López-González Katrin Thüne Margarita Carmona Saima Zafar Olivier Andréoletti Inga Zerr Isidre Ferrer

Impact Factor: 4.000 | **Quartile:** 1 | **Citations:** 65

DOI: <https://doi.org/10.3389/fnagi.2014.00198>

Anchorless 23–230 PrP C Interactomics for Elucidation of PrP C Protective Role

2014

Saima Zafar Abdul R Asif Sanja Ramljak Waqas Tahir Matthias Schmitz Inga Zerr

Molecular Neurobiology, Volume 49, Issue 3, Pages 1385-1399

Impact Factor: 5.137 | **Quartile:** 1 | **Citations:** 14

DOI: DOI 10.1007/s12035-013-8616-2

Association of prion protein genotype and scrapie prion protein type with cellular prion protein charge isoform profiles in cerebrospinal fluid of humans with sporadic or familial prion diseases

2014

Matthias Schmitz Katharina Lüllmann Saima Zafar Elisabeth Ebert Marie Wohlhage Panteleimon Oikonomou Markus Schlomm Eva Mitrova Michael Beekes Inga Zerr

Neurobiology of Aging, Volume 35, Issue 5, Pages 1177-1188

Impact Factor: 5.013 | **Quartile:** 1 | **Citations:** 21

DOI: <https://doi.org/10.1016/j.neurobiolaging.2013.11.010>

Impact of the Cellular Prion Protein on Amyloid- β and 3PO-Tau Processing

2014

Matthias Schmitz Katharina Wulf Sandra C Signore Walter J Schulz-Schaeffer Pawel Kermer Mathias Bähr Fred S Wouters Saima Zafar Inga Zerr

Journal of Alzheimer's Disease, Volume 38, Issue 3, Pages 551-565

Impact Factor: 4.151 | **Quartile:** 1 | **Citations:** 22

DOI: DOI: 10.3233/JAD-130566

Detection of infectivity in blood of persons with variant and sporadic Creutzfeldt-Jakob disease

2014

Jean Yves Douet Saima Zafar Armand Perret-Liaudet Caroline Lacroux Séverine Lugan Naima Aron Herve Cassard Claudia Ponto Fabien Corbière Juan Maria Torres Inga Zerr Olivier Andreoletti

Emerging Infectious Diseases, Volume 20, Issue 1, Pages 114-117

Impact Factor: 6.751 | **Quartile:** 1 | **Citations:** 69

DOI: DOI: <http://dx.doi.org/10.3201/eid2001.130353>

Proteomics approach to identify the interacting partners of cellular prion protein and characterization of Rab7a interaction in neuronal cells

2011

Saima Zafar Nicolas von Ahsen Michael Oellerich Inga Zerr Walter J Schulz-Schaeffer Victor W Armstrong Abdul R Asif

Journal of Proteome Research, Volume 10, Issue 7, Pages 3123-3135

Impact Factor: 5.113 | **Quartile:** 1 | **Citations:** 46

DOI: <https://doi.org/10.1021/pr2001989>

Book Chapters

Clinical Proteomics: Diagnostics and Prognostic Markers of Cancer

2022

Saima Zafar Aniqah Saeed Saadia Zahid

In: *Book on Cancer Biomarkers in Diagnosis and Therapeutics*, 1st Edition, Chapter 4, Pages 83-99

Citations: 1

DOI: https://doi.org/10.1007/978-981-16-5759-7_4

Therapies for Prion Diseases

2019

Saima Zafar Aneeqa Noor INGA ZERR

In: *Handbook of Clinical Neurology*, Chapter 4, Volume 165, Pages 47-58

Citations: 8

DOI: <https://doi.org/10.1016/B978-0-444-64012-3.00004-6>

Prion Protein Strain Diversity and Disease Pathology

2018

Saima Zafar Neelam Younas Mohsin Shafiq Inga Zerr

In: *Book on Prions - Some Physiological and Pathophysiological Aspects*, Chapter 4, Pages 1-16

Citations: N/A

DOI: 10.5772/intechopen.80702

Cerebrospinal fluid in Creutzfeldt-Jakob disease

2018

Saima Zafar Inga Zerr Matthias Schmitz Franc Llorens

In: *Handbook of Clinical Neurology (3rd series) Cerebrospinal Fluid in Neurologic Disorders*, Chapter 8, Volume 146, Pages 115-124

Citations: 8

DOI: 10.1016/B978-0-12-804279-3.00008-3

Kinases (Protein Kinases)

2013

Saima Zafar Inga Zerr

In: *Book on Brenner's Encyclopedia of Genetics (2nd Edition)*, Pages 166-167

Citations: N/A

DOI: <https://doi.org/10.1016/B978-0-12-374984-0.00833-0>

Editorial Activities

Biomolecules

2025

Reviewed Papers for Journals

Impact Factor: 4.8

Life

2025

Reviewed Papers for Journals

Impact Factor: 3.4