

NASROLLAH REZAEI GHALEH

Personal Information

- Another spelling: REZAEI-GHALEH; Nickname: Hessam
- Born: 1973, Behshahr (Iran)
- Nationality: German, Iranian
- Language: Persian, English, German

Education

- 2001-2007
PhD in Biochemistry
Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran
(*PhD thesis: Induction of amyloid aggregation in alpha-chymotrypsin and biochemical and biophysical characterization of its intermediate structures; supervised by Prof. M. Nemat-Gorgani.*)
- 1991-1998
MD in Medicine
Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran

Further Qualifications

- 07.2024
National scientific qualification as Associate Professor in the Italian higher education system for the disciplinary field of 03/C1 - Organic chemistry
- 07.2024
National scientific qualification as Associate Professor in the Italian higher education system for the disciplinary field of 03/B1 – Principles of chemistry and inorganic systems

Professional Experience

- 07.2024-present
Tenure-track researcher (RTT, “Ricercatore in Tenure Track”)
Department of Molecular Medicine, University of Pavia, Pavia, Italy
- 07.2024-present
Guest Scientist
Department for NMR-based Structural Biology, Max Planck Institute for Multidisciplinary Sciences, Göttingen, Germany and Biomolecular NMR center, Forschungszentrum Jülich, Jülich, Germany
- 07.2021-06.2024
Independent DFG-sponsored Principal Investigator and Research Group Leader
Institute of Physical Biology, Heinrich Heine University Düsseldorf, Germany and Biomolecular NMR center, Forschungszentrum Jülich, Jülich, Germany
(*DFG project: Towards a high resolution picture of the stability of protein deposits and its modulation in neurodegenerative diseases: visualizing the invisible by fluorine NMR dynamics: RE 3655/2-3*)
- 06.2020-06.2021
Project leader
Department for NMR-based Structural Biology, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany, with partial support from the Department of Living Matter Physics, Max Planck Institute for Dynamics and Self-Organization, Göttingen, Germany

- 06.2017-05.2020 Independent DFG-sponsored Principal Investigator and Research Group Leader
Department of Neurology, University Medical Center Göttingen (UMG), Göttingen, Germany
(DFG project: *Towards a high resolution picture of the stability of protein deposits and its modulation in neurodegenerative diseases: role of posttranslational modifications; Grant number: RE 3655/2-1*)
- 10.2012-05.2017 Postdoctoral Research Associate
Research group on Structural Biology in Dementia, German Center for Neurodegenerative Diseases (DZNE), Göttingen, Germany, under the supervision of Prof. Markus Zweckstetter
(Project: *Structural biology of neurodegeneration-related protein aggregation*).
- 03.2008-09.2012 Max Planck Research Scholar (postdoctoral researcher)
Research group on Structure Determination of Proteins Using NMR, MPI for Biophysical Chemistry, Göttingen, Germany, under the supervision of Dr. Markus Zweckstetter
(Project: *Misfolding of amyloid-beta and involvement in Alzheimer's disease*)

Publications

Last update: 24.10.2024

h-index / total citations:
29 / 3606 (Google scholar)
25 / 2331 (Scopus)

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Researcher ID:
[B-9443-2008](https://www.researcherid.com/rid/B-9443-2008)

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Bifurcations in Coupled Amyloid- β aggregation-Inflammation Systems
NPJ Systems Biology and Applications, 10, 80 (2024)
<https://doi.org/10.1038/s41540-024-00408-7>
- 2- Nimerovsky E‡, Sieme D‡, **Rezaei-Ghaleh N***
Mobility of sodium ions in agarose gels probed through combined single- and triple-quantum NMR.
Methods 228, 55-64 (2024)
<https://doi.org/10.1016/j.ymeth.2024.05.015>
- 3- Sicoli G‡, Sieme D‡, Overkamp K, Khalil M, Backer R, Griesinger C, Willbold D, **Rezaei-Ghaleh N***
Large dynamics of a phase separating arginine-glycine-rich domain revealed via nuclear and electron spins
Nature Communications 15, 1610 (2024)
<https://doi.org/10.1038/s41467-024-45788-w>
- 4- Sieme D, Engelke M, **Rezaei-Ghaleh N**, Becker S, Wienands J, Griesinger C*
Auto inhibition in the Signal Transducer CIN85 Modulates B Cell Activation
Journal of the American Chemical Society 146, 399-409 (2023)
<https://doi.org/10.1021/jacs.3c09586>
- 5- Sieme D, **Rezaei-Ghaleh N***
Water dynamics in Eutectic solutions of sodium chloride and magnesium sulfate: implications for life in Europa's subsurface ocean and ice shell
Physical Chemistry Chemical Physics 26, 105-115 (2024)

- <https://doi.org/10.1039/d3cp03455k>
- 6- Becker S, Giller K, Sieme D, **Rezaei-Ghaleh N***
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Physical Chemistry Chemical Physics 25, 15099-15103 (2023)
<https://doi.org/10.1039/d3cp01276j>
- 7- **Rezaei-Ghaleh N***, Amininasab M, Giller K, Becker S
Familial Alzheimer's Disease-Related Mutations Differentially Alter Stability of Amyloid-Beta Aggregates
The Journal of Physical Chemistry Letters 14, 1427-1433 (2023)
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- 8- Abyzov A, Mandelkow E, Zweckstetter M, **Rezaei-Ghaleh N***
Fast Motions Dominate Dynamics of Intrinsically Disordered Tau Protein at High Temperatures.
Chemistry, A European Journal 29, e202203493 (2023)
<https://doi.org/10.1002/chem.202203493>
- 9- Sieme D, Griesinger C, **Rezaei-Ghaleh N***
Metal Binding to Sodium Heparin Monitored by Quadrupolar NMR
International Journal of Molecular Sciences 23, 13185 (2022)
<https://doi.org/10.3390/ijms232113185>
- 10- Rafiei Y, Salmani B, Mirzaei-Behbahani B, Taleb M, Meratan AA*, Ramezani M, Nikfarjam N, Becker S, **Rezaei-Ghaleh N***
Polyphenols-Based Nanosheets of Propolis Modulate Cytotoxic Amyloid Fibril Assembly of α -Synuclein
ACS Chemical Neuroscience 13, 3168-3179 (2022)
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- 11- **Rezaei-Ghaleh N***, Agudo-Canalejo J, Griesinger C, Golestanian R*
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- 12- Rahban M, Zolghadri S, Salehi N, Ahmad F, Haertle T, **Rezaei-Ghaleh N**, Sawyer L, Saboury AA*
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International Journal of Biological Macromolecules 214, 642-654 (2022)
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- 13- **Rezaei-Ghaleh N***
Water Dynamics in Highly Concentrated Salt Solutions: A Multi-Nuclear NMR approach
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<https://doi.org/10.1002/open.202200080>
As part of a special collection: "H2Open: Chemistry of Water"
- 14- Pantoja CF, Zweckstetter M, **Rezaei-Ghaleh N***
Dynamical component exchange in a model phase separating system: an NMR-based approach
Physical Chemistry Chemical Physics 24, 6169-6175 (2022)
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Molecular Diffusivity of Click Reaction Components: The Diffusion Enhancement Question
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The Calcium-free form of Atorvastatin inhibits amyloid- β (1-42) aggregation in vitro
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- 17- Vemulapalli SPB, Becker S, Griesinger C, **Rezaei-Ghaleh N***
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- 18- Mamone S, Gloeggler S, Becker S, **Rezaei-Ghaleh N***
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ChemPhysChem 22, 2158-2163 (2021)
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- 19- Fuentes-Monteverde JC, Becker S, **Rezaei-Ghaleh N***
Biological phase separation through the lens of sodium-23 NMR
Protein Science 30, 1315-1325 (2021)
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Advanced Functional Materials 31, 2007765 (2021)
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- 21- Mamone S, **Rezaei-Ghaleh N**, Opazo F, Griesinger C, Gloeggler S*
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- 22- **Rezaei-Ghaleh N***, Munari F, Becker S, Assfalg M, Griesinger C
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Lysine/RNA-interactions drive and regulate biomolecular condensation
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- 25- **Rezaei-Ghaleh N**, Parigi G, Soranno A, Holla A, Becker S, Schuler B, Luchinat C*, Zweckstetter M*
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- 26- Aliakbari F, Mohammad-Beigi H, **Rezaei-Ghaleh N**, Becker S, Dehghani Esmatabad F, Eslampanah Seyedi HA, Bardania H, Tayaranian Marvian A, Collingwood JF, Christiansen G, Zweckstetter M, Otzen DE*, Morshedi D*
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- 27- Martinez Hernandez A, Urbanke H, Gillman AL, Lee J, Ryazanov S, Agbemenyah HY, Benito E, Jain G, Kaurani L, Grigorian G, Leonov A, **Rezaei-Ghaleh N**, Wilken P, Arce FT, Wagner J, Fuhrmann M, Caruana M, Camilleri A, Vassallo N, Zweckstetter M, Benz R, Giese A, Schneider A, Korte M*, Lal R*, Griesinger C*, Eichele G*, Fischer A*
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- 28- Rahban M, Salehi N, Saboury AA*, Hosseinkhani S*, Karimi-Jafari MH, Firouzi R, **Rezaei-Ghaleh N**, Moosavi-Movahedi AA
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- 29- **Rezaei-Ghaleh N***, Bakhtiari D, Rashidi A
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Phosphorylation modifies stability of β -amyloid deposits.
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- 32- Beyer I[‡], **Rezaei-Ghaleh N***, Klafki HW, Jahn O, Haußmann U, Wiltfang J, Zweckstetter M*, Knölker HJ*
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- 34- **Rezaei-Ghaleh N***, Klama F, Munari F, Zweckstetter M*
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Bioinformatics 31, 1319-1321 (2015)
<https://doi.org/10.1093/bioinformatics/btu824>
- 35- Parigi G[‡], **Rezaei-Ghaleh N[‡]**, Giachetti A, Becker S, Fernandez C, Blackledge M, Griesinger C, Zweckstetter M*, Luchinat C*
Long-range correlated dynamics in intrinsically disordered proteins
Journal of the American Chemical Society 136, 16201-16209 (2014)
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- 36- **Rezaei-Ghaleh N**, Amininasab M, Giller K, Kumar S, Stundl A, Schneider A, Becker S, Walter J, Zweckstetter M*
Turn plasticity distinguishes different modes of amyloid-beta aggregation.
Journal of the American Chemical Society 136, 4913-4919 (2014)
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Internalization routes of cell-penetrating melanoma antigen peptides into human dendritic cells
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- 38- **Rezaei-Ghaleh N***, Klama F, Munari F, Zweckstetter M*
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Angewandte Chemie International Edition 52, 11410-11414 (2013)
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- 39- Bouter Y[‡], Dietrich K[‡], Wittnam JL[‡], **Rezaei-Ghaleh N[‡]**, Pillot T, Papot-Couturier S, Lefebvre T, Sprenger F, Wirths O, Zweckstetter M, Bayer TA*
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Acta Neuropathologica 126, 189-205 (2013)
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- 41- Kroth H, Ansaloni A, Varisco Y, Jan A, Sreenivasachary N, **Rezaei-Ghaleh N**, Giriens V, Lohmann S, Lopez-Deber MP, Adolfsson O, Pihlgren M, Paganetti P, Froestl W, Nagel-Steger L, Willbold D, Schrader T, Zweckstetter M, Pfeifer A, Lashuel HA, Muhs A*
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Effect of Zinc Binding on β -Amyloid Structure and Dynamics: Implications for A β Aggregation.
Biophysical Journal 101, 1202-1211 (2011)
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- 50- **Rezaei-Ghaleh N**, Zweckstetter M, Morshedi D, Ebrahim-Habibi A, Nemat-Gorgani M* Amyloidogenic potential of alpha-chymotrypsin in different conformational states
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- 54- **Rezaei-Ghaleh N**, Ramshini H, Ebrahim-Habibi A, Moosavi-Movahedi AA, Nemat-Gorgani M*
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- 55- Ghaemi M*, **Rezaei-Ghaleh N**, Asgari Y
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- 56- **Rezaei-Ghaleh N**, Ebrahim-Habibi A, Moosavi-Movahedi AA, Nemat-Gorgani M*
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- 60- Ghanbarian A, **Rezaei-Ghaleh N**, Salehi P, Azizi F*
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- 63- **Rezaei-Ghaleh N**, Mirbolooki M, Shiva N, Azizi F*
Biomedical Publications on Diabetes Mellitus, Research Gap in Developing Countries
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