



# Curriculum vitae Europass



## General Information

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Nationality	Romanian

## Position

Position	Head of the Department of Bioinformatics & Structural Biochemistry (DBSB)
Period	2000 - present.
Institutie	Institute of Biochemistry of the Romanian Academy - IBAR, Splaiul Independentei 296, 060031 Bucharest 17
Responsibilities	Coordination of structural biology research programs of DBSB-IBAR, PhD Coordinator - at the School of Advanced Studies of the Somanian Academy (SCOSAAR) Lectures at Undergraduate, MSc, PhD and Post.Doc level

## Expertise

Bioinformatics / Biocomputing / Structural Biology / Physical Biochemistry / Glycobiology

## Education

Degree: *PhD in Physics*, Subject - Biophysics "Protein Structure and their Ligand Interactions"  
Institution: University of Bucharest, Faculty of Physics

## Afiliations

Membership in societies and organisations:

- SCR (Senior Common Room) Member , Corpus Christi College, Oxford - in 1998
- Glycobiology Institute, Department of Biochemistry, University of Oxford
- Biochemical Society, UK
- Romanian Society of Biochemistry and Molecular Biology

## Responsibilities

- Vice-president of CNATDCU Pannel III - Biomedical Sciences
- Member of the National Council for Scientific Research - Biology Commission
- Member of the Comitee of European Bioinformatics Communities in - ELIXIR
- Member of the Editorial Board of – Rom. J. Biochem, Molecular Life
- Romanian Grants Evaluator for CNCSIS, UEFISCDI & Romanian Academy
- Reviewer of BMC Bioinformatics, QSAR & Combinatorial Science etc

## Research

### Invited research Stages

>25

- 1991 Faculty of Pharmacy, Wurzburg - Department of Biochemistry, 3 months
- 1993 - 2009 Departament of Biochemistry of the University of Oxford, 1-4 mnth/year
- 1994 - 1999 CEA-Saclay - Lab L.Brillouin; Lab Sim.Mol, 5 EU stages 4-6 months.
- 1999 - 2000 IWR Biocomputing, University of Heidelberg
- 2005 - 2014 University of Wageningen, FP5, FP6 Grants

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<i>Research profiles</i>	Scopus Auth ID: <a href="#">7102461242</a> ; WoS Core Collection ID: <a href="#">G-4576-2016</a> ; Orchid: <a href="#">0000-0002-4478-3946</a> ; Mendeley: <a href="#">Petrescu A-J profile</a> ; Google Scholar: <a href="#">Petrescu A-J profile</a>										
<i>Research Management</i>	DBBS-IBAR research co-ordinator.  Research Grant Coordination: <ul style="list-style-type: none"> <li>• <i>Research within the frame of Romanian Academy Plani (per annum)</i> 1</li> <li>• <i>National Grants and Contracts - last 5 years</i> 11</li> <li>• <i>International Grans</i> 5</li> </ul> <table> <tbody> <tr><td>1998-1999</td><td><i>NATO-CNS 971675 - "Computer Networking"</i></td></tr> <tr><td>2000</td><td><i>Wellcome Trust: "Computing Equip. for Molec. Modeling"</i></td></tr> <tr><td>2002-2005</td><td><i>Wellcome Trust: "A DB of structural information on glycoproteins"</i></td></tr> <tr><td>2002-2004</td><td><i>FP5-EU: "NONEMA"</i></td></tr> <tr><td>2005-2010</td><td><i>FP6-EU: "BIOEXPLOIT" (WP2.4 Coordinator )</i></td></tr> </tbody> </table> Member of Organising Comitee: <i>EMBL-EBI-RSBI Course &amp; Workshop "Bioinformatics"</i> , Bucharest, Sep (2018) <i>COST Workshop "Structure-Guided Investigation of Effector Recognition"</i> , Bucharest, Sep (2014) <i>FEBS Course "Recombinant DNA Technology"</i> , Bucharest, Sep (2008, 2005, 2003) <i>FEBS-IUBMB Meeting "Protein Folding in Health &amp; Disease"</i> , Bucharest, Jun (2005) <i>International Meeting "Glycosylation &amp; Disease"</i> , Bucharest, June (2004) <i>Workshop "Molecular basis of Plant Defence Mechanisms"</i> , Bucharest, Feb (2003) <i>12th Balkan Biochem Biophys Days</i> , Bucharest, May (2001) <i>1st International Meeting of SRBBM</i> , Bucharest, Sep (1998) <i>TEMPUS Workshop "Protein Structure and Function"</i> , Bucharest, Aug (1998) <i>1<sup>st</sup> British-Rom. Workshop "Perspectives in Glycobiology"</i> , Bucharest, May (1997)	1998-1999	<i>NATO-CNS 971675 - "Computer Networking"</i>	2000	<i>Wellcome Trust: "Computing Equip. for Molec. Modeling"</i>	2002-2005	<i>Wellcome Trust: "A DB of structural information on glycoproteins"</i>	2002-2004	<i>FP5-EU: "NONEMA"</i>	2005-2010	<i>FP6-EU: "BIOEXPLOIT" (WP2.4 Coordinator )</i>
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<i>Research Results</i>	<p>Scientific Papers:</p> <ul style="list-style-type: none"> <li>• <i>Published Papers:</i> 101 <ul style="list-style-type: none"> <li><i>Articles in Main International Journals (Web of Science):</i> 76</li> <li><i>Book Chapters:</i> 4</li> <li><i>Articles in national scientific journals</i> 23</li> </ul> </li> <li>• <i>Patents:</i> 4</li> </ul> <p>Research Impact:</p> <table> <tbody> <tr><td>• <i>Hirsh Index Web of Science (WoS - all Data Bases)</i> 33</td></tr> <tr><td>• <i>Citations (WoS - allDB)</i> &gt;3500</td></tr> <tr><td>• <i>Average Imapct Factor (IF) - per article</i> 6.1</td></tr> <tr><td>• <i>Average Article Influence (AI) - per article</i> 2.5</td></tr> <tr><td>• <i>Articles Highly Cited ( &gt; 100 WoS-allDB cit. )</i> 10</td></tr> <tr><td>• <i>Article in High Impact Journals ( AI &gt; 3.0 )</i> 12</td></tr> </tbody> </table>	• <i>Hirsh Index Web of Science (WoS - all Data Bases)</i> 33	• <i>Citations (WoS - allDB)</i> >3500	• <i>Average Imapct Factor (IF) - per article</i> 6.1	• <i>Average Article Influence (AI) - per article</i> 2.5	• <i>Articles Highly Cited ( &gt; 100 WoS-allDB cit. )</i> 10	• <i>Article in High Impact Journals ( AI &gt; 3.0 )</i> 12				
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<i>Research Awards</i>	<ul style="list-style-type: none"> <li>• <i>The "N.Simionescu" Award of the Romanian Academy, 2000:</i> "For Contributions in Protein Folding"</li> <li>• <i>The Ministy of Research Award 2006:</i> "For International Collaboration within EU-FP6"</li> </ul>										
<b>Educational Activities:</b>	<ul style="list-style-type: none"> <li>• <i>PhD Coordinator of SCOSAAR - the Advanced Studies School of the Romanian Academy ;</i></li> <li>• <i>PostDoc Coordinator - in the Program "Cellular &amp; Molecular Biotechnologies for Medicine"</i></li> <li>• <i>Coordinator of the Bioinformatics module in EU-ERASMUS Programme "International MSc on Infectious Diseases and One Health" 2015-2018</i></li> <li>• <i>MSc Courses: I. "Biocomputing" II. "Interactomics" - University of Bucharest 2020 →</i></li> <li>• <i>MSc Lectures at the: Normal Superior School - Bucureşti</i> - Course in Bioinformatics and Molecular Modeling in Biochemistry (2009 - 2015)</li> <li>• <i>International FEBS Course "Recombinant DNA Technology &amp; Protein Expression"</i> - Lectures in Bioinformatics, 2003,2005,2008;</li> </ul>										

## Selection of significant publications

### Most Relevant Publications

1. Şulea TA, Martin EC, Bugeac CA, Bectaş FS, Iacob AL, Spiridon L, Petrescu AJ. "Lessons from Deep Learning Structural Prediction of Multistate Multidomain Proteins-The Case Study of Coiled-Coil NOD-like Receptors." *Int J Mol Sci.* **26**(2):500 (2025);  
**doi:** 10.3390/ijms26020500.  
**AI:** 1.05 / **Q1**      **FI:** 4.90
2. Şulea TA, Draga S, Mernea M, Corlan AD, Radu BM, Petrescu AJ, Amuzescu B. "Differential Inhibition by Cenobamate of Canonical Human Nav1.5 Ion Channels and Several Point Mutants." *Int J Mol Sci.* **26**(1):358. (2025)  
**doi:** 10.3390/ijms26010358.  
**AI:** 1.05 / **Q1**      **FI:** 4.90
3. Martin EC, Ion CF, Ifrimescu F, Spiridon L, Bakker J, Goverse A, Petrescu AJ. "NLRscape: an atlas of plant NLR proteins". *Nucleic Acids Res.*, **51**(D1):D1470-D1482 (2023)  
**doi:** 10.1093/nar/gkac1014  
**AI:** 5.51 / **Q1**      **FI:** 19.16
4. Papadopoulos N, Nédélec A, Derenne A, Şulea TA, Pecquet C, Chachoua I, Vertenoil G, Tilmant T, Petrescu AJ, Mazzucchelli G, Iorga BI, Vertommen D, Constantinescu SN. "Oncogenic CALR mutant C-terminus mediates dual binding to the thrombopoietin receptor triggering complex dimerization and activation." *Nat Commun.* **14**(1):1881 (2023).  
**doi:** 10.1038/s41467-023-37277-3  
**AI:** 5.61 / **Q1**      **FI:** 17.69
5. Chiritoiu GN, Munteanu CVA, Şulea TA, Spiridon L, Petrescu AJ, Jandus C, Romero P, Petrescu SM, "Methionine oxidation selectively enhances T cell reactivity against a melanoma antigen", *iScience*, **26**(7), 107205 (2023),  
**doi:** 10.1016/j.isci.2023.107205  
**AI:** 1.63 / **Q1**      **FI:** 5.80
6. Munteanu CVA, Chiritoiu GN, Petrescu AJ, Petrescu SM. "Defining the altered glycoproteomic space of the early secretory pathway by class I mannosidase pharmacological inhibition." *Front Mol Biosci.* **9**:1064868 (2023).  
**doi:** 10.3389/fmbo.2022.1064868  
**AI:** 1.33 / **Q2**      **FI:** 6.11
7. Martin EC, Spiridon L, Goverse A, Petrescu AJ. "NLRExpress-A bundle of machine learning motif predictors-Reveals motif stability underlying plant Nod-like receptors diversity.", *Front Plant Sci.*, **13**, 975888, (2022).  
**doi:** 10.3389/fpls.2022.975888  
**AI:** 1.17 / **Q1**      **FI:** 6.63
8. van Grinsven IL, Martin EC\*, Petrescu AJ\*, Kormelink R\*. "Tsw - A case study on structure-function puzzles in plant NLRs with unusually large LRR domains.", *Front Plant Sci.*, **13**, 983693, (2022)  
**doi:** 10.3389/fpls.2022.983693  
**AI:** 1.17 / **Q1**      **FI:** 6.63
9. Mernea M, Martin EC, Petrescu AJ\*, Avram S\*. "Deep learning in the quest for compound nomination for fighting COVID-19." *Curr Med Chem.* **28**(28):5699-5732. (2021)  
**doi:** 10.2174/0929867328666210113170222  
**AI:** 0.90 / **Q2**      **FI:** 4.20
10. Munteanu CVA, Chiritoiu GN, Chiritoiu M, Ghenea S, Petrescu AJ, Petrescu SM. "Affinity Proteomics and Deglycoproteomics Uncover Novel EDEM2 Endogenous Substrates and an Integrative ERAD Network", *Mol Cell Proteomics*. **20**:100125. (2021).  
**doi:** 10.1016/j.mcpro.2021.100125  
**AI:** 2.00 / **Q1**      **FI:** 7.38
11. Manica G, Ghenea S, Munteanu CVA, Martin EC, Butnaru C, Surleac M, Chiritoiu GN, Alexandru PR, Petrescu AJ, Petrescu SM. "EDEM3 Domains Cooperate to Perform Its Overall Cell Functioning." *Int J Mol Sci.* **22**(4):2172 (2021).  
**doi:** 10.3390/ijms22042172  
**AI:** 1.06 / **Q1**      **FI:** 6.21
12. Baudin M, Martin EC, Sass C, Hassan JA, Bendix C, Sauceda R, Diplock N, Specht CD, Petrescu AJ, Lewis JD. "A natural diversity screen in *Arabidopsis thaliana* reveals determinants for HopZ1a recognition in the ZAR1-ZED1 immune complex." *Plant Cell Environ.*;44(2):629-644 (2021)  
**doi:** 10.1111/pce.13927  
**AI:** 1.80 / **Q1**      **FI:** 6.40
13. Martin EC, Vicari C, Tsakou-Ngouafao L, Pontarotti P, Petrescu AJ, Schatz DG. "Identification of RAG-like transposons in protostomes suggests their ancient bilaterian origin." *Mob DNA*. **11**, 17 (2020).  
**doi:** 10.1186/s13100-020-00214-y  
**AI:** 0.90 / **Q1**      **FI:** 5.80

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14. Martin EC, Sukarta OCA, Spiridon L, Grigore LG, Constantinescu V, Tacutu R, Goverse A, Petrescu A-J, "LRRpredictor - A New LRR Motif Detection Method for Irregular Motifs of Plant NLR Proteins Using an Ensemble of Classifiers", *Genes* **11**(3), 286-300 (2020)  
**doi:** 10.3390/genes11030286  
**AI:** 0.90 / **Q2**      **FI:** 3.70
15. Spiridon L, Sulea TA, Minh DDL, Petrescu AJ. "Robosample: A rigid-body molecular simulation program based on robot mechanics." *Biochim Biophys Acta Gen Subj.* **1864**(8), 129616. (2020)  
**doi:** 10.1016/j.bbagen.2020.129616  
**AI:** 1.80 / **Q2**      **FI:** 3.40
16. Baudin M, Schreiber KJ, Martin EC, Petrescu AJ, Lewis JD. "Structure-function analysis of ZAR1 immune receptor reveals key molecular interactions for activity." *Plant J.* **101**(2), 352-370 (2020)  
**doi:** 10.1111/tpj.14547  
**AI:** 2.10 / **Q1**      **FI:** 6.10
17. Zhang Y, Cheng TC, Huang G, Lu Q, Surleac MD, Mandell JD, Pontarotti P, Petrescu AJ, Xu A, Xiong Y, Schatz DG. "Transposon molecular domestication and the evolution of the RAG recombinase.", *Nature*. **569**:79-84 (2019).  
**doi:** 10.1038/s41586-019-1093-7  
**AI:** 22.20 / **Q1**      **FI:** 42.70
18. Sarbu M, Ica R, Petrut A, Vukelić Ž, Munteanu CVA, Petrescu AJ, Zamfir AD. "Gangliosidome of human anencephaly: A high resolution multistage mass spectrometry study.", *Biochimie*. **163**:142-151 (2019)  
**doi:** 10.1016/j.biochi.2019.05.017  
**AI:** 0.90 / **Q3**      **FI:** 3.10
19. Sarbu M, Dehelean L, Munteanu CVA, Ica R, Petrescu AJ, Zamfir AD. "Human caudate nucleus exhibits a highly complex ganglioside pattern as revealed by high-resolution multistage Orbitrap MS.", *J.Carb.Chem.* **38**(9):531-551 (2019)  
**doi:** 10.1080/07328303.2019.1669632  
**AI:** 0.00 / **Q3**      **FI:** 0.80
20. Ciubotaru M, Musat MG, Surleac M, Ionita E, Petrescu AJ, Abele E, Abele R. "The Design of New HIV-IN Tethered Bifunctional Inhibitors using Multiple Microdomain Targeted Docking." *Curr Med Chem.* **26**(15):2574-2600 (2019).  
**doi:** 10.2174/092986732566180406114405  
**AI:** 0.90 / **Q2**      **FI:** 4.20
21. Munteanu CVA, Chiritoiu GN, Petrescu AJ, Petrescu SM. "Profiling Optimal Conditions for Capturing EDEM Proteins Complexes in Melanoma Using Mass Spectrometry." *Adv Exp Med Biol.*, **1140**, 155-167 (2019)  
**doi:** 10.1007/978-3-030-15950-4\_9  
**AI:** 0.60 / **Q3**      **FI:** 2.40
22. Wróblewski T, Spiridon L, Martin EC, Petrescu AJ, Cavanaugh K, Jose-Truco M, Xu H, Gozdowski D, Pawłowski K, Michelmore RW, Takken FLW.. "Genome-wide functional analyses of plant CCNLR-type pathogen receptors reveal essential roles of their N-ter domain in oligomerization, networking, and immunity." *PLOS Biology* **16**(12): e2005821 (2018)  
**doi:** 10.1371/journal.pbio.2005821  
**AI:** 5.60 / **Q1**      **FI:** 9.10
23. Slootweg EJ, Spiridon LN, Martin EC, Tameling WIL, Townsend PD, Pomp R, Roosien J, Drawska O, Sukarta OCA, Schots A, Borst JW, Joosten MHAJ, Bakker J, Smart G, Cann MJ, Petrescu AJ, Goverse A. "Distinct Roles of Non-Overlapping Surface Regions of the Coiled-Coil Domain in the Potato Immune Receptor Rx1." *Plant Physiol.* **178**(3):1310-1331 (2018)  
**doi:** 10.1104/pp.18.00603  
**AI:** 2.20 / **Q1**      **FI:** 6.90
24. Norris EJ, Jones WD, Surleac MD, Petrescu AJ, Destephantis D, Zhang Q, Hamadeh I, Kneisl J, Livasy CA, Ganapathi RN, Tait DL, Ganapathi MK. "Clonal lineage of high grade serous ovarian cancer in a patient with neurofibromatosis type 1." *Gynecol Oncol Rep.* **23**:41-44 (2018).  
**doi:** 10.1016/j.gore.2018.01.005  
**AI:** 0.00 / **Q3**      **FI:** 1.00
25. Butnaru CM, Chiritoiu MB, Chiritoiu GN, Petrescu SM, Petrescu AJ. "Inhibition of N-glycan processing modulates the network of EDEM3 interactors" *Biochem Biophys Res Commun.* **486**(4):978-984 (2017)  
**doi:** 10.1016/j.bbrc.2017.03.143  
**AI:** 0.70 / **Q3**      **FI:** 2.30
26. Kozuki T, Chikamori K, Surleac MD, Micluta MA, Petrescu AJ, Norris EJ, Elson P, Hoeltge GA, Grabowski DR, Porter ACG, Ganapathi RN, Ganapathi MK. "Roles of the C-terminal domains of topoisomerase IIα and topoisomerase IIβ in regulation of the decatenation checkpoint." *Nucleic Acids Res.* **45**(10):5995-6010 (2017)  
**doi:** 10.1093/nar/gkx325  
**AI:** 3.60 / **Q1**      **FI:** 10.20

27. Ruta LL, Kissin R, Nicolau I, Neagoe AD, Petrescu AJ, Bones AM, Farcașanu IC. Heavy metal accumulation by *Saccharomyces cerevisiae* cells armed with metal binding hexapeptides targeted to the inner face of the plasma membrane. *Appl Microbiol Biotechnol.* 101(14):5749-5763 (2017)  
**doi:** 10.1007/s00253-017-8335-0  
**AI:** 1.00 / **Q2**      **FI:** 3.30
28. Rajaraman J, Douchkov D, Hensel G, Stefanato FL, Gordon A, Ereful N, Caldăraru OF, Petrescu AJ, Kumlehn J, Boyd LA, Schweizer P, "An LRR/Malectin Receptor-Like Kinase Mediates Resistance to Non-adapted and Adapted Powdery Mildew Fungi in Barley and Wheat." *Front Plant Sci.*; 7:1836-1844 (2016).  
**doi:** 10.3389/fpls.2016.01836  
**AI:** 1.30 / **Q1**      **FI:** 4.30
29. Diaz-Granados A, Petrescu AJ, Goverse A, Smant G. "SPRYSEC Effectors: A Versatile Protein-Binding Platform to Disrupt Plant Innate Immunity." *Front Plant Sci.* 7:1575-1588 (2016)  
**doi:** 10.3389/fpls.2016.01575  
**AI:** 1.30 / **Q1**      **FI:** 4.30
30. De Oliveira AS, Koolhaas I, Boiteux LS, Caldăraru OF, Petrescu AJ, Oliveira Resende R, Kormelink R. Cell death triggering and effector recognition by Sw-5 SD-CNL proteins from resistant and susceptible tomato isolines to Tomato spotted wilt virus. *Mol Plant Pathol.* 17(9):1442-1454 (2016)  
**doi:** 10.1111/mpp.12439  
**AI:** 1.30 / **Q1**      **FI:** 4.70
31. Sueldo DJ, Shimels M, Spiridon LN, Caldăraru O, Petrescu AJ, Joosten MH, Tameling WI., "Random mutagenesis of the nucleotide-binding domain of NRC1 (NB-LRR Required for Hypersensitive Response-Associated Cell Death-1), a downstream signalling nucleotide-binding, leucine-rich repeat (NB-LRR) protein, identifies gain-of-function mutations in the nucleotide-binding pocket.", *New Phytol.* 208(1), 210-223. (2015)  
**doi:** 10.1111/nph.13459  
**AI:** 2.50 / **Q1**      **FI:** 7.70
32. Zhang YH, Shetty K, Surleac MD, Petrescu AJ, Schatz DG. "Mapping and Quantitation of the Interaction between the Recombination Activating Gene Proteins RAG1 and RAG2." *J.Biol.Chem.* 290(19), 11802-17. (2015)  
**doi:** 10.1074/jbc.M115.638627  
**AI:** 2.00 / **Q1**      **FI:** 4.60
33. Ciubotaru M, Surleac MD, Metskas LA, Koo P, Rhoades E, Petrescu A-J, Schatz DG., "The architecture of the 12RSS in V(D)J recombination signal and synaptic complexes" *Nucleic Acid Res.* 43(2), 917-931 (2015)  
**doi:** 10.1093/nar/gku1348  
**AI:** 3.60 / **Q1**      **FI:** 9.20
34. Sarbu M, Munteanu CVA, Dehelean L, Petrescu AJ, Jasna PK, Zamfir AD, "Identification and structural characterization of novel O- and N-glycoforms in the urine of a Schindler disease patient by Orbitrap mass spectrometry" *J.Mass.Spectrometry*, 50(9), 1044-1056 (2015)  
**doi:** 10.1002/jms.3616  
**AI:** 0.70 / **Q3**      **FI:** 2.40
35. Sela H, Spiridon LN, Ashkenazi H, Bhullar NK, Brunner S, Petrescu A-J, Fahima T, Keller B, Jordan T, "3D modeling and diversity analysis reveals distinct AVR recognition sites and evolutionary pathways in wild and domesticated wheat Pm3 R genes" *Mol Plant Microbe Interact.*, 27(8), 835-845 (2014)  
**doi:** 10.1094/MPMI-01-14-0009-R  
**AI:** 1.50 / **Q1**      **FI:** 4.40
36. Slootweg EJ, Spiridon LN, Roosien J, Butterbach P, Pomp R, Westerhof L, Wilbers R, Bakker E, Bakker J, Petrescu A-J, Smant G, Goverse A "Structural Determinants at the Interface of the ARC2 and LRR Domains Control the Activation of the NB-LRR Plant Immune Receptors Rx1 and Gpa2.", *Plant Physiol.*, 161(3), 1510-1528 (2013)  
**doi:** 10.1104/pp.113.218842  
**AI:** 2.20 / **Q1**      **FI:** 7.40
37. Ciubotaru M, Trexler AJ, Spiridon LN, Surleac MD, Rhoades E, Petrescu A-J, Schatz DG. "RAG and HMGB1 create a large bend in the 23RSS in the V(D)J recombination synaptic complexes.", *Nucl.Acid.Res.*, 41(4), 2437-2425 (2013)  
**doi:** 10.1093/nar/gks1294  
**AI:** 2.60 / **Q1**      **FI:** 8.80
38. Flangea C, Petrescu A-J, Seidler DG, Munteanu CVA, Zamfir AD, "Identification of an unusually sulfated tetrasaccharide chondroitin/dermatan motif in mouse brain by combining chip- nanoelectrospray multistage MS2-MS4 and high resolution mass spectrometry.", *Electrophoresis*, 34(11), 1581-1592 (2013)  
**doi:** 10.1002/elps.201200704  
**AI:** 0.60 / **Q3**      **FI:** 3.10

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39. Marin MB, Ghenea S, Spiridon LN, Chiritoiu GN, Petrescu A-J, Petrescu SM. "Tyrosinase degradation is prevented when EDEM1 lacks the intrinsically disordered region", *PLoS One*, 7(8), e42998 (2012)  
**doi:** 10.1371/journal.pone.0042998  
**AI:** 1.80 / **Q1**      **FI:** 3.70
40. Sela H, Spiridon LN, Petrescu A-J, Akerman M, Mandel-Gutfreund Y, Nevo E, Loutre C, KSela H, Spiridon LN, Petrescu A-J, Akerman M, Mandel-Gutfreund Y, Nevo E, Loutre C, Keller B, Schulman AH, Fahima T, "Ancient diversity of splicing motifs and protein surfaces in the wild emmer wheat (*Triticum dicoccoides*) LR10 coiled coil (CC) and leucine-rich repeat (LRR) domains" *Mol. Plant Pathol.*, 13(3), 276–287 (2012)  
**doi:** 10.1111/j.1364-3703.2011.00744.x  
**AI:** 1.20 / **Q1**      **FI:** 3.90
41. Cioaca D, Ghenea S, Spiridon LN, Marin M, Petrescu A-J, Petrescu SM. "C-terminus glycans with critical functional role in the maturation of secretory glycoproteins.", *PLoS One*, 6(5), e19979 (2011)  
**doi:** 10.1371/journal.pone.0019979  
**AI:** 1.80 / **Q1**      **FI:** 4.00
42. Maekawa T, Cheng W, Spiridon LN, Töller A, Lukasik E, Saijo Y, Liu P, Shen Q-H, Micluta MA, Somssich IE, Takken FLW, Petrescu A-J, Chai J, Schulze-Lefert P, "Coiled-coil domain-dependent homodimerization of intracellular MLA immune receptors defines a minimal functional module for triggering cell death", *Cell Host-Microbe*, 9(3): 187-199 (2011)  
**doi:** 10.1016/j.chom.2011.02.008  
**AI:** 6.90 / **Q1**      **FI:** 13.50
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