



Curriculum vitae Europass



General Information

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Nationality Romanian

Position

Period 2000 - present.
Position Head of the *Department of Bioinformatics & Structural Biochemistry (DBBS)*
Institutie Institute of Biochemistry of the Romanian Academy - IBAR,
Splaiul Independentei 296,
060031 Bucharest 17
Responsibilities Coordination of research programs of *DBBS*,
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 şi organisations:

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

Responisibilities

- *Vice-president of CNATDCU Pannel III - Biomedical Sciences*
- *Member of the National Council for Scientific Research - Biology Comission*
- *Member of the Comitee of European Bioinformatics Comunities 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 Department of Biochemistry of the University of Oxford, 1-4 mnth/year
- 1994 - 1999 CEA-Saclay - Lab L.Brilluoin; Lab Sim.Mol, 5 EU stages 4-6 months.
- 1999 - 2000 IWR Biocomputing, University of Heidelberg
- 2005 - 2014 University of Wageningen, FP5, FP6 Grants

Research profiles Scopus Auth ID: [7102461242](#) ; WoS ID: [G-4576-2016](#) ; Orchid: [0000-0002-4478-3946](#) ;
Mendeley: [Petrescu A-J profile](#) ; Google Scholar: [Petrescu A-J profile](#)

Research Management DBBS-IBAR research co-ordinator.

Research Grant Coordination:

- *Research within the frame of Romanian Academy Plani (per annum)* 1
- *National Grants and Contracts - last 5 years* 11
- *International Grans* 5
 - 1998-1999 NATO-CNS 971675 - "Computer Networking"
 - 2000 Wellcome Trust: "Computing Equip. for Molec. Modeling"
 - 2002-2005 Wellcome Trust: "A DB of structural information on glycoproteins"
 - 2002-2004 FP5-EU: "NONEMA"
 - 2005-2010 FP6-EU: "BIOEXPLOIT" (WP2.4 Coordinator)

Member of Organising Comitee:

- EMBL-EBI-RSBI Course & Workshop "Bioinformatics"*, Bucharest, Sep (2018)
- COST Workshop "Structure-Guided Investigation of Effector Recognition"*, Bucharest, Sep (2014)
- FEBS Course "Recombinant DNA Technology"*, Bucharest, Sep (2008, 2005, 2003)
- FEBS-IUBMB Meeting "Protein Folding in Health & Disease"*, Bucharest, Jun (2005)
- International Meeting "Glycosylation & Disease"*, Bucharest, June (2004)
- Workshop "Molecular basis of Plant Defence Mechanisms"*, Bucharest, Feb (2003)
- 12th Balkan Biochem Biophys Days*, Bucharest, May (2001)
- 1st International Meeting of SRBBM*, Bucharest, Sep (1998)
- TEMPUS Workshop "Protein Structure and Function"*, Bucharest, Aug (1998)
- 1st Brithish-Rom. Workshop "Perspectives in Glycobiology"*, Bucharest, May (1997)

Research Results

Scientific Papers:

- *Published Papers:* 96
 - Articles in Main International Journals (ISI):* 69
 - Book Chapters:* 4
 - Articles in national scientific journals* 23
- *Patents:* 4

Research Impact:

- *Hirsh Index Web of Science WoS & Scopus* 28
- *Hirsh Index Google Scholar* 32
- *Citations (WoS / Scopus)* >2900
- *Citations (Google Scholar)* >4200
- *Imapct Factor (IF) Cumulated - all articles* >380
- *Imapct Factor (IF) Average per article* 5.8

Research Awards

- *The "N.Simionescu" Award of the Romanian Academy, 2000:*
"For Contributions in Protein Folding"
- *The Ministy of Research Award 2006:*
"For International Collaboration within EU-FP6"

Educational Activities:

- *PhD Coordinator of SCOSAAR - the Advanced Studies School of the Romanian Academy ;*
- *PostDoc Coordinator - in the Program "Cellular & Molecular Biotehnologies for Medicine"*
- *Coordinator of the Bioinformatics module in EU-ERASMUS Programme "International MSc on Infectious Diseases and One Health" 2015-2018*
- *MSc Courses: I. "Biocomputing" II. "Interactomics" - University of Bucharest 2020,2021*
- *MSc Lectures at the: Normal Superior School - București*
 - Course in Bioinformatics and Molecular Modeling in Biochemistry (2009 - prezent)
- *Internațional FEBS Course "Recombinant DNA Technology & Protein Expression"*
 - Lectures in Bioinformatics, 2003,2005,2008;

Selection of significant publications

1. Munteanu CVA, Chirițoiu GN, Chirițoiu M, Ghenea S, Petrescu AJ, Petrescu ȘM. "Affinity Proteomics and Deglycoproteomics Uncover Novel EDEM2 Endogenous Substrates and an Integrative ERAD Network", **Mol Cell Proteomics**. **20**:100125. Jul 29; doi: 10.1016/j.mcpro.2021.100125. Online ahead of print (2021).
2. Manica G, Ghenea S, Munteanu CVA, Martin EC, Butnaru C, Surleac M, Chirițoiu GN, Alexandru PR, Petrescu AJ, Petrescu SM. "EDEM3 Domains Cooperate to Perform Its Overall Cell Functioning." **Int J Mol Sci**. **22(4)**:2172 (2021).
3. 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)
4. Baudin M, Martin EC, Sass C, Hassan JA, Bendix C, Saucedo 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)
5. Martin EC, Vicari C, Tsakou-Ngouafo L, Pontarotti P, Petrescu AJ, Schatz DG. "Identification of RAG-like transposons in protostomes suggests their ancient bilaterian origin." **Mob DNA**. **11**, 17 (2020).
6. Spiridon L, Șulea 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)
7. 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)
8. 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)
9. 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).
10. 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)
11. 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)
12. 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).
13. Munteanu CVA, Chirițoiu GN, Petrescu AJ, Petrescu ȘM. "Profiling Optimal Conditions for Capturing EDEM Proteins Complexes in Melanoma Using Mass Spectrometry." **Adv Exp Med Biol**., **1140**, 155-167 (2019)
14. 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 coiled-coil NLR-type pathogen receptors reveal essential roles of their N-terminal domain in oligomerization, networking, and immunity." **PLoS Biology** **16(12)**: e2005821 (2018)
15. Sloomweg EJ, Spiridon LN, Martin EC, Tameling WIL, Townsend PD, Pomp R, Roosien J, Drawska O, Sukarta OCA, Schots A, Borst JW, Joosten MHJ, Bakker J, Smant 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)
16. Norris EJ, Jones WD, Surleac MD, Petrescu AJ, Destephanis 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).
17. 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 II α and topoisomerase II β in regulation of the decatenation checkpoint. **Nucleic Acids Res**. **45(10)**:5995-6010 (2017)
18. Butnaru CM, Chirițoiu MB, Chirițoiu 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)
19. Ruta LL, Kissen R, Nicolau I, Neagoe AD, Petrescu AJ, Bones AM, Farcasanu 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)
20. Rajaraman J, Douchkov D, Hensel G, Stefanato FL, Gordon A, Ereful N, Caldararu OF, Petrescu AJ, Kumlehn J, Boyd LA, Schweizer P, "An LRR/Melectin Receptor-Like Kinase Mediates Resistance to Non-adapted and Adapted Powdery Mildew Fungi in Barley and Wheat." **Front Plant Sci**.; 7:1836-1844 (2016).
21. 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)
22. De Oliveira AS, Koolhaas I, Boiteux LS, Caldararu 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)
23. Sueldo DJ, Shimels M, Spiridon LN, Caldararu 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)
24. 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)
 25. 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)
 26. 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)
 27. 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)
 28. 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)
 29. 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.Acids.Res.**, **41(4)**, 2437-2425 (2013)
 30. 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)
 31. 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)
 32. 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)
 33. 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)
 34. 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)
 35. Grozav AG, Willard BB, Kozuki T, Chikamori K, Micluta MA, Petrescu A-J, Kinter M, Ganapathi R, Ganapathi MK. "Tyrosine 656 in topoisomerase II β is important for the catalytic activity of the enzyme: Identification based on artifactual +80-Da modification at this site". **Proteomics**. **11(5)**: 829-842 (2011)
 36. Slootweg E, Roosien J, Spiridon LN, Petrescu A-J, Tameling W, Joosten M, Pomp R, vanSchaik C, Borst JW, Smant G, Schots A, Bakker J, Goverse A. "Nucleocytoplasmic Distribution Is Required for Activation of Resistance by the Potato NB-LRR Receptor Rx1 and Is Balanced by Its Functional Domains.", **Plant Cell**. **22(12)**: 4195-4215 (2010)
 37. Postma W, Tytgat T, Prins P, Qin L, Overmars H, Vossen J, Spiridon L, Petrescu AJ, Goverse A, Bakker J, Smant G, Rehman S. "A secreted SPRY domain-containing protein (SPRYSEC) from the plant-parasitic nematode *Globodera rostochiensis* interacts with a CC-NB-LRR protein from a susceptible tomato.", **Mol Plant Microbe Interact.**, **22(3)**, 330 -340 (2009)
 38. Balasu MC, Spiridon LN, Miron S, Craescu CT, Scheidig AJ, Petrescu AJ, Szedlaczek SE. "Interface analysis of the complex between ERK2 and PTP-SL.", **PLoS One**, **4(5)**, e5432 (2009)
 39. Kammenga JE, Doroszuk A, Riksen JA, Hazendonk E, Spiridon L, Petrescu A-J, Tijsterman M, Plasterk RH, Bakker J. "A *Caenorhabditis elegans* wild type defies the temperature-size rule owing to a single nucleotide polymorphism in tra-3.", **PLoS Genet**. **3(3)**, e34 (2007)
 40. Kudla U, Milac AL, Qin L, Overmars H, Roze E, Holterman M, Petrescu A-J, Goverse A, Bakker J, Helder J, Smant G." Structural and functional characterization of a novel, host penetration-related pectate lyase from the potato cyst nematode *Globodera rostochiensis*", **Mol. Plant Pathol**, **8(3)**, 293-305 (2007)
 41. Petrescu A-J, Wormald MR, Dwek RA."Structural aspects of glycomes with a focus on N-glycosylation and glycoprotein folding.", **Curr Opin Struct Biol**. **16(5)**: 600-607 (2006)
 42. Paduraru C, Spiridon L, Yuan W, Bricard G, Valencia X, Porcelli S, Besra G, Petrescu SM, Petrescu A-J, Cresswell P. "An N-linked glycan modulates the interaction between the CD1d heavy chain and beta 2-microglobulin.", **J Biol Chem.**, **281(52)**, 40369-78 (2006)
 43. Milac AL, Avram S, Petrescu A-J, "Evaluation of a neural networks QSAR method based on ligand representation using substituent descriptors Application to HIV-1 protease inhibitors." **J Mol Graph Model**. **25(1)**, 37-45 (2006)
 44. Costin GE, Valencia JC, Wakamatsu K, Ito S, Solano F, Milac A-L, Vieira WD, Petrescu A-J, Lamoreux ML, Hearing VJ. "Mutations in dopachrome tautomerase (*Dct*) affect eumelanin/pheomelanin synthesis, but do not affect intracellular trafficking of the mutant protein.", **Biochem J**. **391**, 249-259 (2005)

45. Kudla U, Qin L, Milac AL, Kielak A, Maissen C, Overmars H, Popeijus H, Roze E, Petrescu A-J, Smant G, Bakker J, Helder J, "Origin, distribution and 3D-modelling of Gr-EXP1, an expansin from the potato cyst nematode *Globodera rostochiensis*" **FEBS Lett**, **579**, 2451-2457 (2005)
46. Jaubert S, Milac A-L, Petrescu A-J, de Almeida-Engler J, Abad P, Rosso M-N, "In Planta Secretion of a Calreticulin by Migratory and Sedentary Stages of Root-Knot Nematode", **Mol. Plant-Microbe Int.**, **18**, 1277-1284 (2005)
47. Petrescu A-J, Milac A-L, Petrescu SM, Dwek RA, Wormald M.R. "Statistical analysis of the protein core around N-glycosylation sites. Implications on occupancy, folding and function", **Glycobiology**, **14**: 103-114 (2004)
48. Wormald M, Petrescu A-J, Pao Y-L, Glythero A, Elliot T, Dwek RA, "Conformational Studies of Oligosaccharides and Glycopeptides: Complementarity of NMR, X-Ray Crystallography and Molecular Modelling", **Chem.Rev.**, **102**, 371-387 (2002)
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50. Dellerue S, Petrescu AJ, Smith JC, Bellissent-Funel MC, "Radially softening diffusive motions in a globular protein." **Biophys. J.**, **81**, 1666-1676 (2001)
51. Bondar A-N, Daniel R, Finney JL, Fischer S, Kataoka M, Petrescu A-J & Smith JC, "Protein Folding and Dynamics - New Insights from Computer Simulation and Scattering Experiments." **J. Phys. Soc. Japn.** **70** (Suppl. A), 392-395 (2001).
52. Petrescu A-J, Calmettes P, Durand D, Receveur V, Smith JC, "Change in backbone torsion angle distribution on protein folding" **Protein Sci.**, **9**, 1129-36 (2000)
53. Hinsin K, Petrescu A-J, Dellerue S, Bellissent-Funel M-C. & Kneller G "Harmonicity in slow protein dynamics". **Chem.Phys.** **261**, 25-37 (2000)
54. Dellerue S, Petrescu A-J, Smith JC, Longeville S, Bellissent-Funel M-C "Collective dynamics of a photosynthetic protein probed by neutron spin-echo spectroscopy and molecular dynamics simulation" **Physica B**, **276-278**, 514-515 (2000)
55. Petrescu, S.M, Petrescu A-J, Platt F.M., Dwek, R.A., "Glycosylation and glycoprotein folding", **Wellcome Trust Reviews**, 41-42 (2000)
56. Branza-Nichita N., Petrescu A-J, Negroiu G., Dwek RA., Petrescu SM, "N-glycosylation processing and glycoprotein folding-lessons from the tyrosinase- related proteins", **Chem. Rev.**, **100**, 4697-4711 (2000)
57. Petrescu S.M., Branza-Nichita N., Negroiu G., Petrescu A-J, Dwek R.A.; "Tyrosinase and Glycoprotein Folding: Roles of Chaperones", **Biochemistry** **39**: 5229-5237, (2000)
58. Branza-Nichita N., Negroiu G., Petrescu A-J, Garman E.F., Platt F.M., Wormald M., Dwek R.A., Petrescu S.M. "Mutations at Critical N-Glycosylation Sites Reduce Tyrosinase Activity by Altering Folding and Quality Control", **J.Biol.Chem.**, **275**, 8169-8175 (2000)
59. Petrescu A-J, Petrescu S.M., Dwek R.A., Wormald M.R., "A Statistical Analysis of N- and O-glycan linkages from crystallographic data" **Glycobiology**, **9**, 343-352 (1999)
60. Nichita-Branza N., Petrescu A-J, Dewk R.A., Wormald M., Platt F., Petrescu S.M., "Tyrosinase folding and copper loading in vivo: a crucial role for calnexin and β -glucosidase II" **Biochem.Biophys.Res.Commun.**, **261**, 720-725 (1999)
61. Negroiu G., Branza-Nichita N., Petrescu A-J, Dwek RA., Petrescu SM, "Protein specific N-glycosylation of tyrosinase and TRP-1 in B16 cells", **Biochemical J.**, **344**, 659-665 (1999)
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63. Smith J.C., Lamy A, Kataoka M, Yunoki J, Petrescu A-J, Receveur V, Calmettes P, Durand D, "Motions in native and denatured proteins" **Physica B**, **241-243**, 1110-1114 (1998)
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65. Petrescu A-J, Butters T.D., Reinkensmeier G., Petrescu S.M., Platt F.M., Dwek R.A., Wormald M.R., "The Solution NMR Structure of *Glc3Man9* unit in *Glc3Man7GlcNAc2*", **EMBO J.**, **16**, 4302-4310 (1997)
66. Petrescu, S.M, Petrescu A-J, Tițu H., Dwek, R.A., Platt, F.M. "Inhibition of N-Glycan Processing in B16 Melanoma Cells Results in Inactivation of Tyrosinase but Does not Prevent its Transport to the Melanosome", **J.Biol.Chem.**, **272**, 15796-803 (1997)
67. Petrescu A-J, Receveur V., Calmettes P., Durand D., Desmadril M., Roux B., Smith J.C., "Small Angle Neutron Scattering By a Strongly Denatured Protein: Analisis using Random Polymer Theory", **Biophysical J.**, **72**, 335-342 (1997)
68. Petrescu S.M., Branza-Nichita N., Nita-Lazar M., Petrescu A-J, Motas C., "Immunoaffinity Chromatography on Antibodies Immobilized on Nitrocellulose Powder", **Analytical Biochem.** **229**, 299-303 (1995)
69. Petrescu Ș.M., Petrescu A-J, Rudiger H., "Purification and Partial Characterisation of a lectin from *Datura innoxia* seeds", **Phytochemistry**, **34**, 343- 348 (1993)