

## CURRICULUM VITAE

Mehmet ODABAŞI, Ph.D.  
Professor of Biochemistry  
E-mail: modabasi@aksaray.edu.tr  
Phone: +90(382) 288 2125  
URL: biochemreg.com

Aksaray University, Faculty of Arts and Sci.  
Chemistry Dept. Biochemistry Div.  
68100-Aksaray/TURKEY

---

**ORCID ID** : 0000-0002-3288-132X

**SCOPUS ID**: 6701832216

**WoS ID** : AAQ-8926-2020

### EDUCATION

Hacettepe University, Faculty of Science, Chemistry Dept. Ankara/Turkey

Ph.D. in Biochemistry, March 2005

Dissertation: Molecularly Imprinted Polymer for Separation of Proteins

(Mentor: Prof. Dr. Adil Denizli)

Hacettepe University, Faculty of Science, Chemistry Dept. Ankara/Turkey

M.Sc. in Biochemistry, June 2000

Dissertation: DNA Carrying Magnetic Bioaffinity Sorbents for Sistemik Lupus Erythematosus Disease.

(Mentor: Prof. Dr. Adil Denizli)

### EMPLOYMENT HISTORY

1994-1997 Research Assistance at Kafkas University, Kars/Turkey

1997-2005 Research Assistance at Hacettepe University, Ankara/Turkey

2005-2007 Dr. Research Assistance at Kafkas University, Kars/Turkey

2007-2012 Assist. Prof. at Aksaray University, Aksaray/Turkey

2012-2018 Assoc. Prof. at Aksaray University, Aksaray/Turkey

2018- Prof. at Aksaray University, Aksaray/Turkey

### RESEARCH AREA

1. *Polymer Technology*: Production of polymers and polymeric biomaterials with various shapes (beads, membranes, cryogels) having different bulk and surface properties, modification of them by various methods for medical and biological applications.
2. *Biochemistry*: Enzyme technology. Purification of enzymes from different sources and investigation of their characteristics regarding immobilization.
3. *Chromatographic Techniques*: Preparation of polymeric biospecific sorbents, and their use for the purification of biomolecules (i.e., proteins, enzymes, nucleic acids etc.) with some chromatographic techniques (i.e., Bioaffinity Chromatography, Dye Affinity Chromatography, Immobilized Metal Affinity Chromatography, Molecular Imprinting, etc.). Removal of toxic substances such as microcystins and metal ions from water.
4. *Biosensor surface chemistry and surface design*: Modification of QCM chip surfaces for different molecules by molecular imprinting technique to detect the level of them in the sample.

### COURSES AND SCHOOLS ORGANIZED

1. V. National Affinity Techniques Congress, Organizing Committee, May 20-24, 2009, Balıkesir University, Faculty of Arts and Sciences, Department of Chemistry, Ayvalık, Balıkesir, Turkey.

## CURRICULUM VITAE

2. Affinity Chromatography Graduate Summer School, Chairman of the Organizing Committee, June 23-25, 2010, Aksaray University, Faculty of Arts and Sciences, Department of Chemistry, Aksaray, Turkey.
3. VI. National Affinity Techniques Congress, Chairman of the Organizing Committee, May 23-25, 2010, Aksaray University, Faculty of Arts and Sciences, Department of Chemistry, Aksaray, Turkey.
4. Current Topics in Applied Biochemistry-I, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, August 20-22, 2014, Ağaçlı Hotel, Aksaray, Turkey.
5. Current Topics in Applied Biochemistry-II, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, August 20-23, 2015, Ağaçlı Hotel, Aksaray, Turkey.
6. Current Topics in Applied Biochemistry-III, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, July 12-14, 2017, Ağaçlı Hotel, Aksaray, Turkey.
7. Current Topics in Applied Biochemistry-IV, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, June 27-29, 2018, Trakya University, Edirne, Turkey.
8. Current Topics in Applied Biochemistry-V, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, June 24-27, 2019, Erciyes University, Kayseri, Turkey.
9. Current Topics in Applied Biochemistry-VI, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, June 27-29, 2022, İnönü University, Malatya, Turkey.
10. Current Topics in Applied Biochemistry-VII, Biochemistry Graduate Summer School, Chairman of the Organizing Committee, October 27-29, 2025, Tarsus University, Tarsus Turkey.

## COURSES AND SCHOOLS PARTICIPATED

1. Biosensors, Biochemistry Undergraduate Summer School, 20-26 June 1999, Kusadasi, Aydın, Turkey.
2. Basic and Modern Techniques in Biochemistry, Biochemistry Undergraduate Summer School, 27 August-3 September, Kuşadası, Aydın, Turkey.
3. Chromatographic Techniques and Their Industrial Applications, Turkish Scientific and Technical Research Council-Bursa Test and Analysis Laboratory, November 2001, Bursa, Turkey.
4. Protein Chromatography and New Generation Polymeric systems, Biochemistry Undergraduate Summer School, 5-7 July 2007, **As Lecturer**, Atatürk University, Chemistry Dept., Erzurum.
5. The Regulation of Metabolism and Metabolism Disorders, Biochemistry Undergraduate Summer School, 29 June -06 July 2008, Trabzon
6. Affinity Chromatography” Biochemistry Undergraduate Summer School, 23-25 May 2010, **As Lecturer**, Aksaray University, Chemistry Dept., Aksaray, Turkey.
7. The Last Developments in Design and Applications of Biosensors” Biochemistry Undergraduate Summer School, 01-08 Sept. 2013, Gümüşlük, Bodrum, Turkey.

## PROJECTS

1. Cholesterol Removal from Human Plasma by Anti-LDL antibody attached PHEMA microspheres. Hacettepe University, Grant No: 01 G 008, 2002, Completed.

## CURRICULUM VITAE

2. Production of Magnetic PHEMA Microspheres, DNA immobilization and removal of Anti-DNA antibodies from SLE patient plasma by column system. Hacettepe University, Grant No: 02 K 120 290-13, 2003, Completed.
3. Preparation of bioaffinity sorbents for protein purification. Hacettepe University, Project No: 01 02 601 012, Completed.
4. The Design and preparation of molecularly imprinted polymer for protein purification. TUBITAK, TBAG-2372, 2004, Completed.
5. The Design and preparation of cholesterol imprinted polymeric membrane, TUBITAK, Grant No: MAG- 105M278, 2005.
6. Preparation and Applications of Molecularly Imprinted Quartz Crystal Microbalance (QCM) Chips for Melamine Detection, TUBITAK, Grant No: TBAG-112T561, 2012.
7. Separation of Coumarins by Subcritical Water Chromatography, TÜBİTAK, Grant No: TBAG-112T336, 2012, Completed.
8. Synthesis and Application of Water-Soluble O-Carboxmethyl Chitosan-Imine Palladium (II), Molybdenum (0), Copper (II) Complexes, TUBITAK, Grant No: KIBAG-113Z296, Completed.
9. Preparation of Composite Membrane Embedded with Cu<sup>2+</sup>-Attached O-Carboxymethyl Chitosan Complexes and Investigation for Protein Adsorption Performance, Aksaray University, Grant No: 2015-080, Completed.
10. Synthesize of Molecular Imprinted Magnetic Nonoparticles for Determination of Melamine, Aksaray University, Grant No: 2015-079, Completed.
11. Removal of Toxic Azo Dyes from Textile Wastewater by Micro-Reactor Gel, Aksaray University, Grant No: 2015-093, Completed.
12. "Nanoflowers" - synthesis, characterization and the interaction with biomolecules to evaluate their possible applications in biology and medicine, joint research project (2557 between The Scientific and Technological Research Council of Turkey (TUBITAK) and Belarus Republican Foundation for Fundamental Research (BRFFR), Grant No: 118Z037, 2018, Completed.
13. Development of Quartz Crystal Microbalance (QCM) Based Biosensor for Determination of Lactons by Molecular Imprinting Methods, Grant No: 2018-060, Completed.
14. Development of a Quartz Crystal Microbalance Biosensor System for the Determination of *N*-Hexanoyl Homoserine Lactone, TUBITAK, Grant No: 119Z184, 2019, Completed.
15. Peptide biopolymeric nanomaterials: synthesis, functionalization, characterization and evaluation of their use as delivery systems in cancer cells, joint research project (2557) between The Scientific and Technological Research Council of Turkey (TUBITAK) and Belarus Republican Foundation for Fundamental Research (BRFFR), Grant No: 220N178, 2021, Completed.
16. Development of Molecular Imprinted Cryogel Membranes for Purification of Naringenin, TUBITAK, Grant No: 121Z173, 2021, Completed.
17. Synthesis of Protein-Based Polymeric Membranes and Their Use as Wound Dressing Materials in Possible Athlete Injuries, Grant No: 2024-İHT-001.

## LIST OF SCIENTIFIC PUBLICATIONS

## A. BOOKS

1. Baydemir, G., **Odabaşı, M.**, A Novel Chromatographic Media: Histidine Containing Composite Cryogels for HIgG Separation from Human Serum, *Affinity Chromatography, Methods and Protocols, Series: Methods in Molecular Biology*, Chapter 18, Vol. 1286, ISBN 978-1-4939-2447-9, Reichelt, Senta (Ed.) 2015, Springer.
2. Denizli, A., Denkbaş, E.B., Yavuz, H., Akgöl, S., **Odabaşı, M.**, Garipcan, B., Özkara, S., **Biochemistry Laboratory**, Hacettepe University, Faculty of Science, Department of Chemistry, Beytepe, Ankara, 2000.
3. **Odabaşı, M.** et al., Ankara 2010. Eds.: Denizli, A.; Küfrevioğlu, Ö.İ., "New Generation Polymeric Systems and Protein Chromatography" ISBN 978-605-88783-0-3.
4. Önal Ulusoy, B., Aksoy, N.H., **Odabaşı, M.**, Molecular Imprinting Technology for Sensing and Separation in Food Safety, *Advanced Molecularly Imprinting Materials*, Chapter 9, p:353-388, ISBN:9781119336297 (hardback) A. Tiwari and L. Uzun (Eds.), 2016, Wiley-Scrivener Publishing LLC.
5. Acet, Ö. Erdönmez, D. **Odabaşı, M.**, Immobilized Metal-Ion Affinitiy Chromatography, *Affinity Chromatography and Related Techniques*, Chapter 6, p:93-108, ISBN:978-975-491-466-5, Z. El Rassi, A. Denizli (Eds) 2018, Hacettepe Book Series.
6. Gurbuz, F. Acet, Ö. **Odabaşı, M.**, Membrane Technologies and Their Applications, *Affinity Chromatography and Related Techniques*, Chapter 10, p:93-108, ISBN: 978-975-491-466-5, Z. El Rassi, A. Denizli (Eds) 2018, Hacettepe Book Series.
7. Gurbuz, F., and **Odabaşı, M.**, An insight into the potential contaminants, their effects, and removal means, *Nano-biosorbents for Detecontamination of Water, Air, and Soil Pollution*, Chapter 5, ISBN: 978-0-323-90912-9, Eds: Denizli, A., Ali, N., Bilal, M., Khan, A., Nguyen, T., 1<sup>st</sup> Edition, 2022, Elsevier.
8. Shcharbin, D., Önal Acet, B., Inessa Halets-Bui, **Odabaşı M.**, Acet, Ö., Multifunctional mesoporous silica-based nanocomposites for biomedical applications, *Multifunctional Nanostructured Coatings Biomedical, Environmental, and Energy Applications*, Chapter 7, ISBN: 978-0-443-23683-9, Eds: Manviri Rani, Uma Shanker, 1<sup>st</sup> Edition, 2025, Elsevier.
9. Önal Acet, B., Shcharbin, D., Inessa Halets-Bui, **Odabaşı M.**, Acet, Ö., Biomedical applications of multifunctional polymer based nanostructured coatings, *Multifunctional Nanostructured Coatings Biomedical, Environmental, and Energy Applications*, Chapter 8, ISBN: 978-0-443-23683-9, Eds: Manviri Rani, Uma Shanker, 1<sup>st</sup> Edition, 2025, Elsevier.

## B. RESEARCH ARTICLES

1. Kassab, A., Yavuz, H., **Odabaşı, M.**, Denizli, A., Human Serum Albumin Chromatography by Cibacron Blue F3GA-Derived Microporous Polyamide Hollow-fiber affinity membranes, *J. Chromatogr. B.* 746(2000)123-132.
2. Denkbaş, E., B., **Odabaşı, M.**, Chitosan Microspheres and Sponces: Preparation and Characterization, *Journal of Applied Polymer Science*, 76(2000)1637-1643.

## CURRICULUM VITAE

3. **Odabaşı, M.**, Garipcan, B., Dede, S., and Denizli, A., Methacryloamido-histidine in Affinity Ligands for Immobilized Metal-ion Affinity Chromatography of Human Serum Albumin, *Biotechnology and Bioprocess Engineering*, 2001, 6:402-409.
4. **Odabaşı, M.**, Denizli, A. Polyhydroxyethylmethacrylate Based Magnetic DNA-Affinity Beads for Anti-DNA Antibody Removal from SLE Patient Plasma, *J. Chromatogr. B.*, 760(2001) 137-148.
5. Denkbaş, E., B., **Odabaşı, M.**, Kılıçay, E., Özdemir, E., Human Serum Albumin (HSA) Adsorption with Chitosan Microspheres, *Journal of Applied Polymer Science*, 86(2002) 3035-3039.
6. **Odabaşı, M.**, Garipcan, B. Denizli, A. Preparation of a novel metal-chelate affinity beads for Albumin isolation from human plasma, *Journal of Applied Polymer Science*, 90(2003) 2840-2847.
7. **Odabaşı, M.**, Denizli, A. Cibacron blue F3GA-attached magnetic poly(2-hydroxyethyl methacrylate) beads for human serum albumin adsorption, *Polymer International*, 53 (2004) 332-338.
8. **Odabaşı, M.**, Uzun, L. and Denizli, A., Porous magnetic chelator support for albumin adsorption by immobilized metal affinity separation, *Journal of Applied Polymer Science*, *Journal of Applied Polymer Science*, 93 (2004) 2501-2510.
9. Uzun, L., **Odabaşı, M.**, Arıca, Y. and Denizli, A., Poly(styrene-hydroxyethyl methacrylate) monodisperse microspheres as specific sorbent in dye affinity adsorption of albumin, *Separation Science and Technology*, 39 (2004) 10, 2401-2418.
10. **Odabaşı, M.**, Denizli, A. Cibacron blue F3GA incorporated magnetic poly(2-hydroxyethyl methacrylate) beads for Lysozyme Adsorption, *Journal of Applied Polymer Science*, 93 (2004) 719-725.
11. Yavuz, H., **Odabaşı, M.**, Akgöl, S. and Denizli, A., Immobilized metal affinity beads for ferritin adsorption, *Journal of Biomaterials Science, Polymer Edition*, 16 (2005) 673-684.
12. **Odabaşı, M.**, Özkayar, N., Özkara, S., Ünal, S. and Denizli, A. Pathogenic antibody removal using magnetically stabilized fluidized bed, *J. Chromatogr. B.*, 826 (2005) 50-57.
13. **Odabaşı, M.**, Say, R. and Denizli, A., Molecular imprinted particles for lysozyme purification, *Materials Science and Engineering: C.*, 27 (2007) 90-99.
14. Ergün, B., Derazshamshir, A. and **Odabaşı, M.**, Preparation of Fe(III)-Chelated Poly(HEMA-MAH) Cryogel for Lysozyme Adsorption, *Hacettepe Journal of Biology and Chemistry*, 32 (2007) 143-148.
15. Derazshamshir, A., Ergün, B., Peşist, G., **Odabaşı, M.**, Preparation of Zn<sup>2+</sup>- Chelated Poly(HEMA-MAH) Cryogel for Affinity Purification of Chicken Egg Lysozyme, *Journal of Applied Polymer Science*, 109 (2008) 2905-2913.
16. **Odabaşı M.**, Baydemir, G., Karataş M., Derazshamshir, A., Preparation and Characterization of Metal-Chelated poly(HEMA-MAH) monolithic Cryogels and Their Use for DNA Adsorption, *Journal of Applied Polymer Science*, 116 (2010) 1306-1312.
17. Erzengin, M., Ünlü, N., **Odabaşı, M.**, A Novel Adsorbent for Protein Chromatography: Supermacroporous Monolithic Cryogel Embedded with Cu<sup>2+</sup>-Attached Sporopollenin Particles, *J. Chromatogr. A.*, 1218 (2011) 484-490.
18. Ceylan, Ş., Kalburcu, T., Gedikli, M., **Odabaşı M.**, Application of Cu<sup>2+</sup>- attached Magnetite Nanoparticles Embedded Supermacroporous Monolithic Composite Cryogels for DNA Adsorption, *Hacettepe Journal of Biology and Chemistry*, 39 (2011) 163-172.

## CURRICULUM VITAE

19. **Odabaşı, M.**, Magnetic Dye-Affinity Beads for Human Serum Albumin Purification, *Preparative Biochemistry and Biotechnology*, 41 (2011) 287-304.
20. Ünlü, N., Ceylan, Ş., Erzengin, M., **Odabaşı, M.**, Investigation of Protein Adsorption Performance of Ni<sup>2+</sup>-Attached Diatomite Particles Embedded to Composite Monolithic Cryogels, *Journal of Separation Science*, 34 (2011) 2173-2180.
21. Baydemir, G., **Odabaşı, M.**, Microsphere Embedded Cryogels for Selective and Efficient Depletion of Immunoglobulin G from Human Serum, *Artificial Cells, Nanomedicine, and Biotechnology*, 41(2013) 319-326.
22. Ceylan, Ş., **Odabaşı, M.**, Novel Adsorbent for DNA Adsorption: Fe<sup>3+</sup>-Attached Sporopollenin Embedded Composite Cryogels, *Artificial Cells, Nanomedicine and Biotechnology*, 41(2013) 376-383.
23. Ceylan, Ş., **Odabaşı, M.**, "Investigation of Lysozyme Adsorption Performance of Cu<sup>2+</sup>-Attached PHEMA Beads Embedded Cryogel Membranes" *Materials Science and Engineering: C*, 34 (2014) 1-8.
24. Gedikli, M., Ceylan, Ş., Erzengin, M., **Odabaşı, M.**, A Novel Matrix for Hydrophobic Interaction Chromatography and Its Application in Lysozyme Adsorption, *Acta Biochimica Polonica*, 61, 731-737 (2014).
25. Akay, S., **Odabaşı, M.**, Yang, Y., Kayan, B., Synthesis and evaluation of NA-PHEMAH polymer for use as a new stationary phase in high-temperature liquid chromatography, *Separation and Purification Technology*, 152, 1-6 (2015).
26. Gurbuz, F., Cömert, Ş.C. **Odabaşı, M.**, Codd, G.A., Hepatotoxic Microcystin Removal Using Pumice Embedded Monolithic Composite Cryogel as an Alternative Water Treatment Method, *Water Research*, 90, 337-343 (2016).
27. Kaya, M., **Odabasi, M.**, Muftaba, M., Şen, M., Bulut, E., Akyuz, B., Novel three-dimensional cellulose produced from trunk of Astragalus gummifer (Fabaceae) tested for protein adsorption performance, *Materials Science and Engineering: C*, 62, 144-151 (2016).
28. Alkan, H., Ceylan, C., Ş., Gürbüz, F., Doğru, M., **Odabaşı, M.**, Cu<sup>2+</sup>-Attached Pumice Particles Embedded Composite Cryogels for Protein Purification, *Artificial Cells Nanomedicine and Biotechnology*, 45, 90-97 (2017).
29. Bulut, E., Sargin, İ., Arslan, Ö., **Odabaşı, M.**, Akyuz, B., Kaya, M., *In situ* chitin isolation from body parts of a centipede species for lysozyme adsorption, *Materials Science and Engineering: C*, 70, 552-563 (2017).
30. Baran Yılmaz, N., Acet, Ö., **Odabaşı, M.**, Efficient Adsorption of Hemoglobin from Aqueous Solutions by Hybrid Monolithic Cryogel Column, *Materials Science and Engineering: C*, 73, 15-20 (2017).
31. **Odabaşı, M.**, Uzun, L., Baydemir, G., Aksoy, N.H., Acet, Ö., Erdönmez, D., Cholesterol Imprinted Composite Membranes for Selective Cholesterol Recognition from Intestinal Mimicking Solution, *Colloids and Surfaces B: Biointerfaces*. 163, 266-274 (2018).
32. Acet, Ö., Baran, T., Erdönmez, D., Aksoy, N.H., Alacabey, A., Menteş, A., **Odabaşı, M.**, O-carboxymethyl Chitosan Schiff Base Complexes as Affinity Ligands for Immobilized Metal-ion Affinity Chromatography of Lysozyme, *J. Chromatogr. A*, 1550, 21-27 (2018).
33. Acet, Ö. Aksoy, N.H., Erdönmez, D. **Odabaşı, M.**, Determination of some adsorption and kinetic parameters of  $\alpha$ -amylase onto Cu<sup>2+</sup>-PHEMA beads embedded column, *Artificial Cells, Nanomedicine and Biotechnology*, 46 (2018) 538-545.

## CURRICULUM VITAE

34. Acet, Ö. Önal, B. Sanz, R., Sanz-Pérez, E.S. Erdönmez, D. **Odabaşı, M.**, Preparation of a new chromatographic media and assessment of some kinetic and interaction parameters for lysozyme, *Journal of Molecular Liquids*, 276 (2019) 480-487.
35. Gürbüz, F., Özcan, A., Çiftçi, H., Acet, Ö., **Odabaşı, M.**, Treatment of Textile Effluents through Bio-Composite Column: Decolorization and COD reduction, *International Journal of Environmental Science and Technology*, 16 (2019) 8653-8662.
36. Can, H.K., Gürbüz, F., **Odabaşı, M.**, Partial characterization of cyanobacterial extracellular polymeric substances for aquatic ecosystems, *Aquatic Ecology*, 53 (2019) 431-440.
37. Akpınar, Ş., Gürbüz, F., Özcan, S., Acet, Ö., **Odabaşı, M.**, Reducing arsenic and groundwater contaminants down to safe level for drinking purposes via Fe<sup>3+</sup>-attached hybrid column, *Environmental Monitoring and Assessment*, (2019) 191:722.
38. Shcharbin, D., Halets-Bui, I., Abashkin, V., Dzmitruk, V., Loznikova, S., **Odabaşı, M.**, Acet, Ö., Önal, B., Ödemir, N., Shcharbina, N., Bryszewska, M., Hybrid Metal-Organic Nanoflowers and Their Application in Biotechnology and Medicine, *Colloids and Surfaces B: Biointerfaces* 182 (2019) 110354-110362.
39. Önal, B., Acet, Ö., Sanz, R., Sanz-PÉREZ, E.S., Erdönmez, D., **Odabaşı, M.**, Co-Evaluation of interaction parameters of genomic and plasmid DNA for a new chromatographic media, *International Journal of Biological Macromolecules* 141 (2019) 1183-1190.
40. Abashkin, V. M., Halets-Bu, I.V., Dzmitruk, V.G., Bryszewska, M., Shcharbin, D.G., **Odabaşı, M.**, Acet, Ö., Önal, B., Özdemir, N., Hybride metall-organic nanoflowers and their applications in biotechnology, *Proceedings of the National Academy of Sciences of Belarus, Biological Series*, Vol 64; 3 (2019) 374-384. <https://doi.org/10.29235/1029-8940-2019-64-3-374-384>.
41. Samir Abbas Ali Noma, Ulu, A., Acet, Ö., Sanz, R., Sanz-PÉREZ, E.S., **Odabaşı, M.**, Ateş, B., Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe<sub>3</sub>O<sub>4</sub>/SBA-15 nanoparticles to enhance stability and reusability, *New J. Chem.*, 44(2020) 4440-4451.
42. Serinbaş, A., Önal, B., Acet, Ö., Özdemir, N., Dzmitruk, V., Halets-Bui, I., Shcharbin, D., **Odabaşı, M.**, A new application of inorganic sorbent for biomolecules: IMAC practice of Fe<sup>3+</sup>-nano flowers for DNA separation, *Materials Science and Engineering: C*, 113 (2020) 111020-111026.
43. Acet, Ö., Menteş, A., **Odabaşı, M.**, Assessment of A New Dual Effective Combo Structures for Lysozyme from HEW, *Polymer Bulletin*, 77 (2020) 4679-4695.
44. Önal, B. **Odabaşı, M.**, Design and application of a newly generated bio/synthetic cryogel column for DNA capturing, *Polymer Bulletin*, 78 (2021) 6011-6028.
45. Alacabey, İ., Acet, Ö., Önal, Ö., Dikici, E., Karakoç, V., Gürbüz, F., Alkan, A., **Odabaşı, M.**, Pumice particle interface: a case study for immunoglobulin G purification, *Polymer Bulletin*, 78 (2021) 5593-5607
46. Samir Abbas Ali Noma, Acet, Ö., Ulu, A., Önal, B., **Odabaşı, M.**, Ateş, B., L-Asparaginase immobilized p(HEMA-GMA) cryogels: a case study for biochemical, thermodynamic and kinetic parameters, *Polymer Testing*, 93 (2021) 106980-106989
47. Acet, Ö., İnanan, T., Önal, Ö., Dikici, E., **Odabaşı, M.**, α-amylase immobilized composite cryogels: Some studies on kinetic and adsorption factors, *Applied Biochemistry and Biotechnology*, 193 (2021) 2483-2494.

## CURRICULUM VITAE

48. Acet, Ö., Erdönmez, D., Önal Acet, B., **Odabaşı, M.**, N-Acyl Homoserine Lactones Mediated Quorum Sensing: Effects-Consequences and Monitoring of Bacteria Talking in Real Life, *Archives of Microbiology*, 203 (2021) 3739–3749.
49. Halets-Bui, I., Dzmitruk, V., Abashkin, V., Loznikova, V., Acet, Ö., Önal, B., Özdemir, N., **Odabaşı, M.**, Shcharbin, D., Differences between Cu- and Fe<sup>3+</sup>-Cu-Nanoflowers in their interactions with fluorescent probes 1,8-ANS and Fura-2 and proteins albumin and thrombin, *Polymer Bulletin*, 79 (2022) 5247.
50. Cömert, Ş.C., Özgür, Ö., Uzun, L., **Odabaşı, M.**, The creation of selective imprinted cavities on quartz crystal microbalance electrode for the detection of melamine in milk sample, *Food Chemistry*, 372 (2022) 131254.
51. Erzengin, M., Baydemir Peşint, G., **Odabaşı, M.**, Monolithic hydrophobic cryogel columns for protein separation, *Polymer Bulletin*, 79 (2022) 1485–1499.
52. Önal, B., Acet, Ö., Dzmitruk, V., Halets-Bui, I., Shcharbin, D., Özdemir, N., **Odabaşı, M.**, First protein affinity application of Cu<sup>2+</sup>-bound pure inorganic nanoflowers, *Polymer Bulletin*, 79 (2022) 3233–3251.
53. Can, H.K., Kavlak, S., Gürbüz, F., **Odabaşı, M.**, Insights into the Viscoelastic Peculiarities of Cyanobacterial Extracellular Polymeric Substance (EPS), *Journal of Polymers and the Environment*, 30 (2022) 3055.
54. Yıldırım, M., Acet, Ö., Yetkin, D., Acet, B.Ö. Karakoç, V., **Odabaşı, M.**, Anti-Cancer Activity of Naringenin Loaded Smart Polymeric Nanoparticles in Breast Cancer, *Journal of Drug Delivery Science and Technology*, 74 (2022) 103552.
55. Acet, Ö., **Odabaşı, M.**, Detection of N-hexanoyl-L-homoserine lactone via MIP-based QCM sensor: preparation and characterization, *Polymer Bulletin*, 80 (2023) 6657–6674.
56. Acet, Ö., Dikici, E., Önal Acet, B., **Odabaşı, M.**, Mijakovic, I., Pandit, S., Inhibition of bacterial adhesion by epigallocatechin gallate attached polymeric membranes, *Colloids and Surfaces B: Biointerfaces*, 221 (2023) 113024.
57. Acet, Ö., Shcharbin, D., Zhogla, V., Kirsanov, P., Halets-Bui, I., Önal Acet, B., Gök, T., Bryszewska, M., **Odabaşı, M.**, Dipeptide Nanostructures: Synthesis, Interactions, Advantages and Biomedical Applications, *Colloids and Surfaces B: Biointerfaces*, 222 (2023) 113031.
58. Acet, Ö., Abbas Ali Noma, S., Önal Acet, B., Dikici, E., Osman, B., **Odabaşı, M.**, A rational approach for 3D recognition and removal of L-asparagine via molecularly imprinted membranes, *Journal of Pharmaceutical and Biomedical Analysis*, 226 (2023) 115250.
59. Dikici, E., Önal Acet, B., Acet, Ö., **Odabaşı, M.**, “Lab-on-pol” colorimetric sensor platforms: Melamine detection with color change on melamine imprinted membranes, *Microchemical Journal*, 188 (2023) 108468.
60. Sert B., Acet Ö., Abbas Ali Noma, S., Osman B., **Odabaşı M.**, Ocakoğlu K., A new design to increase the enzyme activities: Investigation of L-asparaginase catalytic performance by IMAC effect on g-C3N4 nanolayers, *Catalysis Letters*, 154 (2024) 1547-1557.
61. Demirtaş, E., **Odabaşı, M.**, Preparation of Naringenin Imprinted Cryogel Membranes and Investigation of Adsorption Behaviors, *Black Sea Journal of Engineering and Science*, 6 (2023) 149-154.



## CURRICULUM VITAE

62. Dikici, E., Önal Acet, B., Gök, T., Acet, Ö., **Odabaşı, M.**, Self-Assembled Short Peptide Nanostructures: Dipeptides, *MANAS Journal of Engineering*, 11 (2023) 83-91.
63. Acet, Ö., İnanan, T., Ondul Koc, E., Sert, B., Önal Acet, B., **Odabaşı, M.**, Ocakoglu, K., Immobilization of alpha-amylase onto Ni<sup>2+</sup> attached carbon felt: Investigation of kinetic parameters from potato wastewater, *Starch*, 75 (2023) 2300033.
64. Önal Acet, B., İnanan, T., Salieva, K., Borkoev, B., **Odabaşı, M.**, Acet, Ö., Molecular impinted polymers: Important advances in Biochemistry, Biomedical and Biotechnology, *Polymer Bulletin*, 81 (2024) 10439–10459.
65. Demirtaş E., **Odabaşı M.**, Preparation and application of naringenin imprinted cryogel membranes for selectively separation of naringenin from natural environment, *Polymer Bulletin*, 81 (2024) 11795–11811.
66. Önal Acet, B., Désirée Gül, Roland H. Stauber, **Odabaşı, M.**, Acet, Ö., A review for uncovering the “protein-nanoparticle alliance”: Implications of the protein corona for biomedical applications, *Nanomaterials*, 2024, 14, 823.
67. Bani, N., İnanan, T., Acet, A., **Odabaşı, M.**, IMAC application of extracellular polymeric substances doped composite membranes for  $\alpha$ -amylase immobilization and kinetic studies, *Molecular Catalysis*, 562 (2024) 114198.
68. Désirée Gül, Önal Acet, B., Qiang Lu, Roland H. Stauber, **Odabaşı, M.**, Acet, Ö., Revolution in cancer treatment: How are intelligently designed nanostructures changing the game? *International Journal of Molecular Sciences*, 2024, 25, 5171.
69. Akpınar, Ş., Özcan, S., Gurbuz, F., **Odabaşı, M.**, Biopolymeric composite columns for improving water quality in a freshwater stream receiving wastewater treatment plant effluents, *Journal of Polymers and the Environment*, 32 (2024) 5952–5964.
70. Yıldırım, M., Acet, Ö., Önal Acet, B., Karakoç, V., **Odabaşı, M.**, Innovative Approach Against Cancer: Thymoquinone-loaded PHEMA-Based Magnetic Nanoparticles and Their Effects on MCF-7 Breast Cancer, *Biochemical and Biophysical Research Communications*, 734 (2024) 150464.
71. Yıldırım, M., Önal Acet, B., Dikici, E., **Odabaşı, M.**, Acet, Ö., Things to know and latest trends in the design and application of nanoplatforms in cancer treatment, *BioNanoScience*. 14 (2024) 4167–4188.
72. Acet, Ö., Kirsanov, P., Önal Acet, B., Halets-Bui, I., Shcharbin, D., **Odabaşı, M.**, Synthesis, characterization and anticancer effects of doxorubicin loaded dual effected smart nanopolymers, *Beilstein journal of Nanotechnology*, 2024, 15, 1189–1196.
73. Yıldırım, M., Acet, Ö., Önal Acet, B., Karakoç, V., **Odabaşı, M.**, Enhanced Anti-Cancer Efficacy of Hesperidin through Smart Polymeric Nanoparticles Targeting Prostate Cancer, *ChemistrySelect*, 9 (2024) 1-8.
74. Dikici, E., Önal Acet, B., Bozdoğan, B., Acet, Ö., Halets-Bui, I., Shcharbin, D., **Odabaşı, M.**, Synthesis, characterization and investigation of corona formation of dipeptide-based nanomaterials, *Materials* 2025, 18, 108.
75. Karakoç, V., Gürkök Tan, T., Küçük, V. A., **Odabaşı, M.**, Development of DFO chelator-attached adsorptive membranes for selective removal of Fe<sup>3+</sup> ions to obtain clean drinking water, *Journal of Molecular Structure*, 1339 (2025) 142458

## CURRICULUM VITAE

76. Önal Acet, B., Acet, Ö., Désirée Gül, Roland H. Stauber, **Odabaşı, M.**, Synthesis, characterization, and exosomal corona formation of self-assembled dipeptide nanomaterials, *Scientific Reports*, 2025, 15, 13607
77. Yıldırım, M., Poyraz, S., Acet, Ö., Önal Acet, B., Karakoç, V., **Odabaşı, M.**, Chitosan Hydrogels: Versatile Platforms for Drug Delivery in Cancer Treatment, Wound Dressing, and 3D Bioprinting Applications, *International Journal of Biological Macromolecules*, 314 (2025) 144367
78. Dikici, E., Önal Acet, B., Désirée Gül, Roland H. Stauber, **Odabaşı, M.**, Acet, Ö., Bringing Exosomes into the Game: Current situation, opportunities, limitations and future perspectives, *Materials Today Advances*, 28 (2025) 100623
79. Dikici, E., Ay, D., Gök, T., Karakoç, V., İnanan, T., Önal Acet, B., **Odabaşı, M.**, Acet, Ö., The Rise of Molecularly Imprinted Polymers in Food Analysis: Selective, Reliable, and Cost-Effective Approaches, *Food Chemistry*, 497 (2025) 146960.
80. Gök, T., Elżbieta Okła, Inessa Halets-Bui, Victoriya Zhogla, Maria Bryszewska, Dzmitry Shcharbin, Maksim Ionov, **Odabaşı, M.**, Denaturation–renaturation strategy for fabrication of biocompatible BSA-based nanoparticles with dual interaction capability for efficient intracellular delivery, *International Journal of Biological Macromolecules*, 339 (2026) 149974.

## C. PRESENTATIONS (INTERNATIONAL)

1. Denizli, A., Kassab, A., Yavuz, H., **Odabaşı, M.**, Akgöl, S., Pişkin, E., “Microporous Affinity Hollow Fibers for Human Serum Albumin Isolation from Human Plasma” World Polymer Congress, IUPAC Macro 2000, 38<sup>th</sup> Macromolecular IUPAC Symposium, 9-14 July 2000, Polish Chemical Society, Center of Molecular and Macromolecular Studies, Lodz and Warsaw University of Technology, Warsaw, Poland.
2. **Odabaşı, M.**, Denizli, A., “DNA Carrying mPHEMA Affinity Sorbent for Removal of Anti-DNA antibody from SLE Patient Plasma”, 7<sup>th</sup> International Biomedical Science and Technology Symposium (BIOMED), 25-28 September 2000, Hacettepe University, Ankara, Turkey.
3. **Odabaşı, M.**, Denkbaş, E.B., Kılıçay, E., Özdemir, N., “HSA Adsorption with Chitosan Microspheres” 7<sup>th</sup> International Biomedical Science and Technology Symposium (BIOMED), 25-28 September 2000, Hacettepe University, Ankara, Turkey.
4. Uzun, L., Yavuz, H., **Odabaşı, M.**, Akgöl, S., Özkara, S., Garipcan, B., Andaç, M., Denizli, A., “Poly(styrene-hydroxyethyl Methacrylate) monodisperse microspheres for high performance dye-affinity separation of albumin” 27<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques” 15-19 June 2003, Nice-France.
5. Kara, A., Yavuz, H., Akgöl, S., **Odabaşı, M.**, Uzun, L., Beşirli, N., Denizli, A., “Poly(ethylene glycol dimethacrylate-n-vinyl imidazole) beads for heavy metal removal”, Colloquium Spectroscopicum Internationale XXXIII, 7-12 September 2003, Granada-Spain.
6. Baydemir, G., Sarı, M. **Odabaşı, M.**, and Denizli, A., “Albumin Purification in Column Sistem with Cibacron Blue F3GA-Attached Magnetic Poly(Vinil Alcohol Microbeads” 11<sup>th</sup> International Biomedical Science and Technology Symposium (BIOMED), 6-10 September 2004, Hacettepe University, Ankara, Turkey.
7. **Odabaşı, M.**, and Denizli, A., “Preparation of Molecularly Imprinted polymers for protein separation” 11<sup>th</sup> International Biomedical Science and Technology Symposium (BIOMED), 6-10 September 2004, Hacettepe University, Ankara, Turkey.

## CURRICULUM VITAE

8. Özkayar, N., **Odabaşı, M.**, Ünal, S., Denizli, A., "Magnetic Beads for Pathogenic Antibody Removal in Magnetically Stabilized Fluidized Bed" *11<sup>th</sup> International Biomedical Science and Technology Symposium (BIOMED)*, 6-10 September 2004, Hacettepe University, Ankara, Turkey.
9. Ceylan, Ş., Ünlü, N., Erzengin, M., Yılmaz, N. and **Odabaşı, M.**, "Ni<sup>2+</sup>-Attached Diatomite Particles Embedded to Composite Monolithic Cryogels for Protein Adsorption" *EUROCLAY 2011 Conference*, 26 June - 1 July 2011 Antalya-Turkey.
10. Yılmaz, N. and **Odabaşı, M.**, "Preparation of Cu<sup>2+</sup>-Attached Bentonite Particles Embedded to Composite Monolithic Cryogels for Protein Adsorption" *EUROCLAY 2011 Conference*, 26 June-1 July 2011 Antalya-Turkey.
11. **Odabaşı, M.**, Ceylan, Ş., Alkan, M.H., Acet, Ö., Yüksel, G., Öztürk, C., Altay, M.T., "A Novel Adsorbent for DNA Adsorption: Fe<sup>3+</sup>-Attached Sporopollenin Particles Embedded Composite Cryogels" *Third International Conference on Multifunctional, Hybrid and Nanomaterials*, 3-7 March 2013, Sorrento, Italy.
12. Alkan, M.H., Gürbüz, F., Doğru, M., Ceylan, Ş., **Odabaşı, M.**, "A novel low-cost natural adsorbent: Pumice, for Protein Purification with Composite Monolithic Cryogels" *Third International Conference on Multifunctional, Hybrid and Nanomaterials*, 3-7 March 2013, Sorrento, Italy.
13. Ceylan, Ş., Acet, Ö., Yüksel, G., Öztürk, C., Altay, M.T. **Odabaşı, M.**, "Investigation of Lysozyme Adsorption Performance of Cu<sup>2+</sup>-Attached PHEMA Beads Embedded Cryogel Membranes" *Third International Conference on Multifunctional, Hybrid and Nanomaterials*, 3-7 March 2013, Sorrento, Italy.
14. Gürbüz, F., Ceylan, Ş., **Odabaşı, M.**, "Alternative Water Treatment Method for Microcystin Removal" *9<sup>th</sup> International Conference on Toxic Cyanobacteria*, 11-16 August 2013, South Africa.
15. Kayan, B., **Odabaşı, B.**, Akay, S., Şener, M. "New Stationary Phase for Separation of Coumarin Derivates by Using HTLC" Pittcon 2014, 2-6 March 2014 Chicago, IL, USA.
16. Kayan, B., **Odabaşı, B.**, Akay, S. "Separation of Coumarin, Vanilin and Ethyl Vanilin by Using Subcritical Water Chromatography" Pittcon 2014, 2-6 March 2014 Chicago, IL, USA.
17. Acet, Ö., Yüksel, G., Arslan, Ö., Baran, T., Menteş, A., **Odabaşı, M.**, "Synthesis of PHEMA-Water Soluble Imine-Chitosan-Cu<sup>2+</sup> Composite and Its Use for Lysozyme Adsorption" Pittcon 2015, 8-12 March 2015, New Orleans, LA, USA.
18. Yüksel, G., Alacabey, İ., Alacabey, N.A., Acet, Ö., Arslan, Ö., Şen, M., **Odabaşı, M.**, A "Novel Hybrid Cryogel Column for  $\alpha$ -Amylase Purification" Pittcon 2015, 8-12 March 2015, New Orleans, LA, USA.
19. **Odabaşı, M.**, Ceylan, Ş., Uzun, L., "Design and Production of Molecular Imprinted Membranes for Cholesterol Removal" Pittcon 2015, 8-12 March 2015, New Orleans, LA, USA.
20. Akay, S., Kayan, B., **Odabaşı, M.**, Yang, Y., "Long-Term Thermal Stability of Na-PHEMA Stationary Phase In HTLC" Pittcon 2015, 8-12 March 2015, New Orleans, LA, USA.
21. Ceylan, Ş., **Odabaşı, M.**, Uzun, L., "Development of Quartz Crystal Microbalance (QCM) Based Sensor For Melamine Detection With Melamine Imprinted Membranes" Pittcon 2015, 8-12 March 2015, New Orleans, LA, USA.
22. Alkan, H., Gürbüz, F., Ceylan, Ş., Tanır, Ş., **Odabaşı, M.**, "Preparation of Low-Cost Natural Particle Embedded Composite Cryogels for Protein Purification" Pittcon 2015, 8-12 March 2015, New Orleans, LA, USA.

## CURRICULUM VITAE

23. Ceylan, Ş., **Odabaşı, M.**, Uzun, L. "Detection of Melamine in A Natural Medium with Melamine Imprinted Membranes on Quartz Crystal Microbalance (QCM) Chip", The 2<sup>nd</sup> *International Congress on Biosensors*, 10-12 June 2015, Gediz University, Izmir, Turkey.
24. Özcan, A., Gürbüz, F., **Odabaşı, M.**, Çiftçi, H., "Removal of Toxic Azo Dyes from Textile Wastewater by Micro-Reactor Gel, International Symposium of Water and Wastewater Management", October 26-28, 2016, Malatya, Turkey.
25. **Odabaşı, M.**, Acet, Ö., Menteş, A., "Design of Ni<sup>2+</sup>-attached O-Carboxymethyl Chitosan Schiff base Complexes for Lysozyme Purification", Pittcon 2017, 5-9 March 2017 Chicago, IL, USA.
26. Akpınar, Ş., Acet, Ö., Özcan, S., Gürbüz, F., **Odabas, M.**, "Removal of Boron from Contaminated Groundwater via Polyethyleneimine Assisted Cryogels Composite", The, 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
27. Akpınar, Ş., Acet, Ö., Özcan, S., Gürbüz, F., **Odabas, M.**, "The Assesment of Polyethyleneimine Assisted Composite Cryogels for Arsenic [As(III), As(IV)] Removal as Major Groundwater Pollutant, The", 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
28. Ertaş, A., Alkan, H., Akdeniz, M., Şahin, H., Alacabey, İ., **Odabaşı, M.**, Ömür, A., Kolak, U., "The Antioxidant Activity and Chemical Composition of Essential Oils of *Salvia aramiensis* and *Calamintha nepeta*". 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
29. Kolak, U., Ertaş, A., Akdeniz, M., Alkan, H., Bilen Kaya, D., Şentürk, K., Yiğitkan, S., Alacabey, N., **Odabaşı, M.**, "Total Phenolic-Flavonoid and Antioxidant Activities of *Nepeta congestavar. congesta* and *Nepeta celiotropifoliavar*", *Celiotropifolia*, 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
30. Akdeniz, M., Ertaş, A., Aydın, F., Fırat, M., Aydın, I., Alacabey, İ., **Odabaşı, M.**, Alkan, H., "The Essential Oil Compositon of *Hypericum pruinatum* and *H. lysimachioides* var. *Spathulatum*", 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
31. Ertaş, A., Alkan, H., Haşimi, N., Özaslan, C., Yeşil, Y., Aydın, I., Aydın, F., Alacabey, N., Uludağ, N., **Odabaşı, M.**, "Antioxidant, Anticholinesterase and Antimicrobial Activities of *Melissa officinalis* L." 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
32. Kul, A.R., Alacabey, N.A., Alkan, H., **Odabaşı, M.**, Kayan, C., Acet, Ö., Alacabey, İ., "Adsorption Equilibrium Studies on the Raw Çaldıran Diatomite (Çaldıran/Van) of Heavy Metal (Lead)" 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
33. Kul, A.R., Alacabey, N.A., Alkan, H., **Odabaşı, M.**, Kayan, C., Acet, Ö., Alacabey, İ., "Sorption Kinetic and Equilibrium Studies of Methylene Blue on Diatomite (Çaldıran/Van)" 3<sup>rd</sup> International SEAB, 05-08 July, 2017, Minsk, BELARUS.
34. Demirtaş, E., **Odabaşı, M.**, Development of Molecular Imprinted Cryogel Membranes for Purification of Naringenin, III. International Turkic World Congress on Science and Engineering (TURK-COSE 2021), 14-15 June, 2021, Niğde Ömer Halisdemir University, Niğde, Turkey.
35. Önal Acet, B., Odabaşı, M., DNA Separation via Fe<sup>+3</sup>-Binded Extracellular Biopolymeric Composite Cryogels, III. International Turkic World Congress on Science and Engineering (TURK-COSE 2021), 14-15 June, 2021, Niğde Ömer Halisdemir University, Niğde, Turkey.
36. Demirtaş, E., Odabaşı, M., Development of Molecular Imprinted Cryogel Membranes for Purification of Naringenin, 3<sup>rd</sup> Euresia Biochemical Approaches and Technologies (EBAT) Congress, 4-7 Nov. 2021, Kemer, Antalya, Turkey.

## CURRICULUM VITAE

37. Acet, B.Ö., Bozdoğan, B., Acet, Ö., Shcharbin, D., Odabaşı, M., Preparation and Characterization of Dipeptide-Based Nanomaterials for Their Potential Cellular Interactions, 5<sup>th</sup> Euresia Biochemical Approaches and Technologies (EBAT) Congress, 2-5 Nov. 2023, Kemer, Antalya, Turkey.
38. Dikici, E., Gök, T., Shcharbin, D., Odabaşı, M., Preparation of Dipeptide-Based Nanoparticles and Their Cellular Interactions, 5<sup>th</sup> Euresia Biochemical Approaches and Technologies (EBAT) Congress, 2-5 Nov. 2023, Kemer, Antalya, Turkey.
39. Bani, N., Acet, Ö., İnanan, T., Odabaşı, M., IMAC Application of Extracellular Polymeric Substances Doped Composite Membranes for  $\alpha$ -Amylase Separation and Kinetic Studies, 5<sup>th</sup> Euresia Biochemical Approaches and Technologies (EBAT) Congress, 2-5 Nov. 2023, Kemer, Antalya, Turkey.

## D. EDITORIAL BOARD MEMBERS

1. Journal of Advanced Biotechnology and Bioengineering
2. The Open Access Journal of Sciences and Technology
3. Hacettepe Journal of Biology and Chemistry
4. Journal of Nanotechnology in Diagnosis and Treatment