

CURRICULUM VITAE

Dr. ROSA AZHARI

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ORT Braude College, Department of Biotechnology Engineering,
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EDUCATION

- D.Sc.* 1989, Biomedical Engineering, Faculty of Biomedical Engineering, Technion Israel Institute of Technology, Haifa, Israel
Dissertation: Controlled release of bioactive materials: physico-chemical and biochemical systems.
- M.Sc.* 1984, Chemistry, Applied Materials Department, Weizmann Institute of Science, Rehovot, Israel
Dissertation: Extracorporeal specific removal of Paraquat
- B.Sc.* 1978, Cum Laude, Chemical Engineering, Faculty of Chemical Engineering, Technion- Israel Institute of Technology, Haifa, Israel

RESEARCH INTERESTS

- Mechanotransduction and applications in Tissue Engineering,
- Microencapsulation
- Vaccines - Design of novel adjuvants and targeting of antigens to specific antigen-presenting cells
- Enzymatic degradation of polymers
- Protein immobilization

ACADEMIC APPOINTMENTS

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| October 2010-present | Chair, Sub-Committee for Engineering and Technological Institutions, Council for Higher Education in Israel |
| July 2008-present | Member, Council for Higher Education in Israel |
| September 2005-2006 | Head of Department, Department of Biotechnology Engineering, ORT Braude College, Karmiel |
| September. 2001 - 2005 | Vice President for Academic Affairs, ORT Braude College, Karmiel |
| December 2000 - present | Associate Professor, Department of Biotechnology Engineering, ORT Braude College, Karmiel |
| February 2003-August 2011 | Adjunct Senior Teaching Fellow, Faculty of Biomedical Engineering, Technion, Haifa |
| September 1999-Aug.2000 | Visiting Scientist, Harvard-MIT Division Health Science and Technology, Cambridge, MA, USA |

October 1994-August 1999	Head of Department, Department of Biotechnology Engineering, ORT Braude College, Karmiel
September 1998-July 1999	Adjunct Lecturer, Department of Biomedical Engineering, Technion, Haifa
October 1992- August 1994	Koret Fellow, Department of Biomedical Engineering, Technion, Haifa
October 1990-August 1992	Post-Doctoral Fellow, Department of Biomedical Engineering, The Johns Hopkins University, Baltimore, MD, USA
November 1989-July 1990	Post-Doctoral Fellow, Department of Biomedical Engineering, Technion, Haifa
October 1985-July 1988	Instructor, Department of Biomedical Engineering, Technion, Haifa
1984	Research Assistant, Department of Applied Materials, The Weizmann Institute of Science, Rehovot

TEACHING EXPERIENCE

A. ORT BRAUDE COLLEGE

Curriculum Development:

As head of the Biotechnology Engineering Department was in charge of developing and revising the curriculum for the undergraduate program in Biotechnology Engineering. This included: building the framework for the integration of scientific and engineering courses, theoretical and practical courses, labs and internship period, and building the electives program. Worked with the accreditation committee of the Council for Higher Education and also with the Israeli Engineers' Registrare.

Graduate Courses:

2012 Cell and Tissue Technologies (with Dr. Michal Amit), including laboratory sessions.

Undergraduate Courses:

1993-1998 Introduction to Chemical Engineering.

1994 Selected topics in Chemical Engineering

1994-present Biomaterials

1994-2008 Bioseparations 1– Mechanical separation processes.

1994-2007 Bioseparations 2– Chemical and biological processes.

2002-present Drug Formulations (with Dr. Idit Golani)

1994-1999 Bioseparation 1 laboratory

1994-present Bioseparation 2 laboratory – Affinity Chromatography.

2006-present Microencapsulation laboratory

B. TECHNION –Israel Institute of Technology, Haifa:

Graduate Courses:

2003-2011 Artificial Metabolic Organs, Faculty of Biomedical Engineering (Given every other year. Open to undergraduate students too)

- 1999 Transport Phenomena in Physiological Systems, Department of Biomedical Engineering
- 1988 Engineering Aspects in Biology and Biotechnology, Department of Biomedical Engineering (Tutorials)
- 1986-1987 Transport Phenomena in Physiological Systems, Department of Biomedical Engineering (Tutorials)
- 1985 Parameter Estimation, Department of Biomedical Engineering, (Tutorials)

Undergraduate Courses:

- 2002-2010 Drug Delivery Devices - Guest lectures in the course: Controlled Drug Delivery, Faculty of Biomedical Engineering

Graduate Student Supervision:

- 1998-1999 Tomer Gold, M. Sc., Department of Biomedical Engineering, Thesis: Controlled drug release devices based on enzymatic degradation of a polymer matrix and diffusion: analytical models (with Prof. Noah Lotan).
- 1998 Vardit Segal, D.Sc., Department of Biomedical Engineering, Thesis: Processes at the interface between biomaterials and physiological systems (Temporary advisor).

ACADEMIC AND PROFESSIONAL AWARDS AND GRANTS

- 1987 The Miriam and Aharon Gutwirth Fellowship Award
- 1988 The Ben-Gurion Fund for Encouragement of Science
- 1990 The Rothschild Post-Doctoral Fellowship
- 1991 Post-Doctoral Fellowship, The Johns Hopkins University
- 1992 The Koret Foundation Fellowship and Research Grant
- 1993 Technion Manlam Research Fund (with Prof. Noah Lotan)
- 1996-1998 Israeli Ministry of Health, Research Grant: Immunomodulation by targeting of encapsulated antigens: A study of a new vaccination strategy. (With Dr. Ditzza Levin)
- 1999-2001 Israeli Ministry of Health, Research Grant: Targeting of encapsulated antigens for selective triggering of a protective immune response. (with Dr. Ditzza Levin)
- 2003-2005 Israeli Ministry of Health, Research Grant: The development of novel antigen candidates and vaccination delivery system to elicit a protective immune response against *Streptococcus Pneumoniae*, (with Dr. Ditzza Levin and Prof. Yaffa Mizrachi-Nebenzahl)
- 2008-2011 Israeli Academy of Sciences, Research Grant: The effect of microstructure of hybrid scaffolds and mechanical stimulation on the development, organization and properties of engineered muscle tissue (with Prof. Ehud Kroll).

PROFESSIONAL ACTIVITIES

- 2012 Member, Organizing committee, The 8th Annual Meeting of the Israeli Chapter of the Controlled Release Society, Maalot, September 2012

- 2011 Member, Founding committee of Israel Society for Biotechnology Engineering
- 2011 Member, Organizing Committee, The 1st Meeting of Israel Society for Biotechnology Engineering
- 2010-present Member, Executive Committee, The Israeli Chapter of the Controlled Release Society
- 2010 Chairperson, The 7th Annual Meeting of the Israeli Chapter of the Controlled Release Society, Haifa, October 2010
- 2007-2010 Elected President, The Israeli Chapter of the Controlled Release Society
- 2009 Member, Organizing Committee, Polymers for Advanced Technologies (PAT 2009) Meeting, Jerusalem, October 2009
- 2008 Member, Organizing Committee and Co-Chairman of the Biotechnology Session, The 44th Annual Meeting of the Israel Institute of Chemical Engineers, Tel Aviv, November 2008
- 2007 Member, Organizing Committee- The 6th Annual Meeting of the Israeli Chapter of the Controlled Release Society, Caesarea, September 2007
- 2006-2008 Member, Investment committee, Misgav Technology Incubator
- 2004 Member, Organizing Committee, The 5th Annual Meeting of the Israeli Controlled Release Society, Haifa, September 2004
- 2004 Co-Chairman of the Biotechnology Session, The 40th meeting of the Israel Institute of Chemical Engineers, Tel Aviv, June 2004
- 2003 Member, Organizing Committee- The 4th Annual Meeting of the Israeli Controlled Release Society, Haifa, September 2003
- 2003 Co-Chairman of the Biotechnology Session, The 39th Meeting of the Israel Institute of Chemical Engineers, Tel Aviv, June 2003
- 2002 Member, Organizing Committee, Entrepreneurship in Biotechnology, Karmiel
- 2001 Member, Scientific Committee, Polymers for Advanced Technologies (PAT) Conference, Eilat, September 2001
- 1996-1999 Chairman- Mirkam (Medical Enterprises Karmiel - Misgav, this public committee was part of the Partnership 2000 project aimed at promoting biomedical and biotechnological activities in the Misgav-Karmiel area)
- 1998 Member, Organizing Committee- The 3rd Annual Meeting of the Israeli Controlled Release Society, Karmiel, September 1998
- 1997 Member, Organizing Committee- The 2nd Annual Meeting of the Israeli Controlled Release Society, Karmiel, September 1997
- 1996-2007 Elected Treasurer - The Israeli Chapter of the Controlled Release Society
- 1996 Member, Founding Committee of the Israeli Chapter of the Controlled Release Society

LIST OF PUBLICATIONS

Theses

1. M.Sc. Thesis: Extracorporeal specific removal of Paraquat. Weizmann Institute of Science, Department of Materials Research, The Feinberg Graduate School, Rehovot, Israel, January 1984.
2. D.Sc. Thesis: Controlled release of bioactive materials: physico-chemical and biochemical systems. Technion- Israel Institute of Technology, Department of Biomedical Engineering, Haifa, Israel, December 1988.

Refereed Papers:

1. 9. **Azhari R.**, Margel S., Labes A. and Haviv Y.: Specific removal of paraquat by hemoperfusion through antiparaquat-conjugated agarose-polyacrolein microsphere beads. *Journal of Biomedical Materials Research*, 21:25-41,1987.
2. **Azhari R.** and Lotan N.: Biodegradation of polymeric matrices. Proceedings of the IV Mediterranean Conference on Medical and Biological Engineering, Sevilla, Spain, September 1986, pp. 440-444.
3. **Azhari R.** and Lotan N.: Biodegradation of polymeric drug carriers: Kinetic modeling. *Makromolekular Chemie, Macromolecular Symposia*, 19:295-312, 1988.
4. **Azhari R.**, Szlak A.M., Ilan E., Sideman S. and Lotan N.: Purification and characterization of endo- and exo-inulinase. *Biotechnology and Applied Biochemistry*, 11:105-117,1989
5. **Azhari R.** and Lotan N.: Enzymic depolymerization processes: Reaction pathways as a basis for a new classification and nomenclature. *Journal of Materials Science Letters*, 10:243-245, 1991.
6. **Azhari R.** and Lotan N.: Enzymic hydrolysis of biopolymers via single-scission attack pathways: a unified kinetic model. *Journal of Materials Science: Materials in Medicine*, 2:9-18, 1991.
7. **Azhari R.**, Sideman S. and Lotan N.: A generalized model for enzymic depolymerization processes. Part I: Reaction pathways and kinetics. *Polymer Degradation and Stability*, 3:35-52,1991.
8. Golumbek P.T., **Azhari R.**, Jaffee E.M., Levitsky H.I., Lazenby A., Leong K. and Pardoll D.M.: Controlled Release, biodegradable, cytokine depots: A new approach in cancer vaccine design. *Cancer Research*, 53:5841-5844, 1993.
9. Pouliot R., **Azhari R.**, Qanadilo H.F., Mahmood T., Triantafyllou M.S. and Langer R., Tissue engineering of fish skin: behavior of fish cells on PEGT/PBT copolymers in relation to the composition of the polymer substrate as an initial step in constructing a robotic/living tissue hybrid. *Tissue Engineering*, 10(1/2), 7-21, 2004.

Chapters in Books:

1. Lotan N., Portnoy S., **Azhari R.** and Sideman S.: Enzymic degradation of biopolymers by non-random processes: Theoretical aspects and experimental results, a review. In: **Biodegradable Polymers and Plastics**, ed. M. Vert, J. Feijen, A. Albertsson, G. Scott and E. Chiellini. The Royal Society of Chemistry, Cambridge, 1992, 201-213.
2. Lotan N., **Azhari R.** and Sideman S.: Enzymic degradation of polymeric biomaterials. In: **Handbook of Biomaterials and Applications**, ed. D.L. Wise, Marcel Dekker Inc., 1995.
3. Gold T., **Azhari R.** and Lotan N.: Enzyme – Promoted Degradation of Polymeric Matrices for Controlled Drug Delivery and Tissue Engineering: Analytical Model and Numerical Simulations. In: **Degradation of Implant Materials**, ed. N. Eliaz, Springer, 2012. (Invited Chapter).

Patents

1. Azhari R. and Leong K., Controlled release of pharmaceutically active substances from coacervate microcapsules, US patent US5759582, issued June 1998.
2. Pardoll D., Azhari R., Leong K., Golumbek P., Jaffee E., Levitzki H., Lazenby A. Controlled release of pharmaceutically active substances for immunotherapy, US Patent US5861159, issued January 1999.
3. M. Haber, I. Lir, H. Dodiuk, R. Azhari., Large scale extraction of algal materials and products thereof. US Provisional Patent Application No. 60/306,447.

Papers in Conference Proceedings:

1. **Azhari R.**, Levin D., Taub E. and Mizrahi Y., Targeted delivery of antigens to Antigen Presenting Cells by Gelatin - Chondroitin sulfate microspheres, The 4th Eastern Mediterranean Chemical Engineering Conference (EMCC4), Dead Sea, Israel, January 2006.
2. **Azhari R.**, Kroll E. and Zussman E., Effects of hybrid scaffolds and mechanical stimulation on engineered muscle tissue, 5th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC5), Cetraro, Italy, May 2008.
3. Dimartino S., Lir I., Haber M. And **Azhari R.**, Algal bio-adhesives for biomedical applications with particular reference to *Gracilaria conferta* extracts, 1st International Conference on Biological and Biomimetic Adhesives, Lisbon, Portugal, May 2012.

Extended Abstracts (peer reviewed):

1. **Azhari R.**, Portnoy S., Borochoy R., Sideman S. and Lotan N.: Multi-enzyme biodegradation phenomena: a quantitative analysis using a kinetic model. Proceedings of the 18th International Symposium on Controlled Release of Bioactive Materials, Amsterdam, Holland, July 1991.
2. **Azhari R.** and Leong K.W.: Protein release from enzymatically-degradable chondroitin sulfate/gelatin microspheres. Proceedings of the 18th International Symposium on Controlled Release of Bioactive Materials, Amsterdam, Holland, July 1991.
3. **Azhari R.**, Fearon D.T. and Leong K.W.: Enzymatically-triggered release of recombinant soluble complement receptor 1 (sCR1) from Chondroitin-sulfate/gelatin microspheres. Proceedings of the 19th International Symposium on Controlled Release of Bioactive Materials, Orlando, Florida, USA, July 1992.
4. Lotan N., **Azhari R.**, Portnoy S., Yaacobi Y., Szlak A.M. Seidel A., and Sideman S.: Biopolymers for enzyme-based drug delivery. Polymer Preprints, 33(2), 1992.
5. **Azhari R.**, Danino E., Kasuto H., Kushnir A., Kotliarevski L. and Levin D.: Coacervate microspheres as vaccination vehicles. Proceedings of the 24th International Symposium on Controlled Release of Bioactive Materials, Stockholm, Sweden, July 1997.
6. Levin D. and **Azhari R.**, Innate and antibody-mediated targeting of antigens to APC by gelatin-chondroitin sulfate microspheres for vaccination, 31st Annual Meeting of the Controlled Release Society, Hawaii, USA, June 2004.
7. **Azhari R.**, Bernstein A. and Levin D., Production of immuno-stimulating microspheres by complex coacervation, 35th annual meeting of the Controlled Release Society, New-York, NY, USA, July 2008.

Abstracts and Presentations at Congresses and Meetings

1. **Azhari R.** and Lotan N.: Kinetic modeling of the enzymic degradation of biopolymers. UK-Israel Binational Symposium on Biomaterials, Tel-Aviv, Israel, March 1986.
2. **Azhari R.** and Lotan N.: Biodegradation of polymeric matrices. IV Mediterranean Conference on Medical and Biological Engineering, Sevilla, Spain, September 1986.
3. **Azhari R.** and Lotan N.: Enzymic degradation of biopolymers: Engineering Aspects. The 23rd Annual meeting of the Israeli Society of Chemical Engineering, Beer-Sheva, Israel, April 1987.
4. **Azhari R.** and Lotan N.: Biodegradation of polymeric drug carriers: Kinetic modeling. IUPAC Meeting on Polymers for Advanced Technologies, Polymers for Biosystems, Jerusalem, Israel, August 1987.
5. **Azhari R.**, Szlak A.M. and Lotan N.: Multi-stage enzymic degradation of biopolymers. The 14th Congress of the Israel Medical Association, Jerusalem, Israel, May 1988.

6. **Azhari R.**, Seidel A., Bauch L., Sideman S. and Lotan N.: Oxidative procedure for activation of hydroxyl-containing polymeric carriers. The 8th International Symposium on Affinity Chromatography and Biological Recognition, Ramat-Rachel, Israel, October 1989.
7. **Azhari R.**, Sideman S. and Lotan N.: Enzymic degradation of polymers: Applications, Engineering aspects and Implications. Annual Meeting of the Israel Polymer and Plastics Society, Haifa, Israel, December 1989.
8. **Azhari R.**, Szlak A.M., Seidel A., Bauch L., Sideman S. and Lotan N.: Chemically modified hydroxyl-containing polymers and their biochemical characteristics. The 55th meeting of the Israel Chemical Society, Tel-Aviv, Israel, February 1990.
9. **Portnoy S.**, Azhari R., Sideman S. and Lotan N.: Enzymic degradation of biopolymers: Synergistic effects. Biomedical Polymers, from Molecular Design to Clinical Applications, Jerusalem, Israel, June 1991.
10. **Lotan N.**, Portnoy S., Azhari R. and Sideman S.: Enzymic degradation of biopolymers by non-random processes: Theoretical aspects and experimental results. 2nd International Scientific Workshop on Biodegradable Polymers and Plastics, Montpellier, France, November 1991.
11. **Azhari R.**, Hirose S. and Leong K.W.: Chondroitin sulfate/Gelatin microspheres: Preparation, characterization and release kinetics. American Chemical Society Meeting, San-Francisco, CA, USA, April 1992.
12. Snir E., **Azhari R.**, Schneiderman R., Popper O and Maroudas A.: Distribution of IGF-1 between different complexes: A quantitative analysis. The 9th Israel Medical Week, Jerusalem, Israel, October 1993.
13. **Azhari R.**, Sideman S. and Lotan N.: Modified enzymes for use in a bioresponsive system for controlled release of drugs. The 9th Israel Medical Week, Jerusalem, Israel, October 1993.
14. Schneiderman R., Popper O., Azhari R., Snir E., Hiss J. and **Maroudas A.**: IGF-1 and its complexes in human normal sera, synovial fluids and cartilage. 40th Annual Meeting of the Orthopaedic Research Society, New Orleans, Louisiana, USA, February 1994.
15. Ori E., Azhari R. and **Lotan N.**: Molecular design and synthesis of an immunosensor component for a bioresponsive drug delivery device. VII Mediterranean Conference on Medical and Biological Engineering, Jerusalem, Israel, September 1995.
16. **Lotan N.**, Ashkenazi G., Ori E., Azhari R., Ripoll D. and Scheraga H.A.: Molecular engineering: computer-assisted molecular design. The Annual Meeting of the Technion Otto-Meyerhof Biotechnological Laboratories, Haifa, Israel, November 1995.
17. **Azhari R.**, Danino E., Kasuto H., Kushnir A., Kotliarevski L. and Levin D.: Microencapsulation of proteins by complex coacervation and its uses in modulating an immune response. The 33rd Annual Meeting of the Israeli Society of Chemical Engineering, Beer-Sheva, Israel, April 1997.
18. **Levin D.**, Kushnir A., Kasuto H., Danino E., Kotliarevski L., Rudshstein N. and Azhari R.: Vaccine design using encapsulated antigens. The 2nd Annual Meeting of the Israeli Chapter of the Controlled Release Society, Karmiel, Israel, September 1997.
20. Levin D. and **Azhari R.**: Adjuvant properties of gelatin-chondroitin sulfate microspheres in oral and parenteral immunization and presentation of encapsulated antigen to CD4 and CD8 T cells. World Congress on Medical Physics and Biomedical Engineering, Chicago, IL, USA, July 2000.
21. **Azhari R.**, Papadaki M., Westmeyer E., Fong J., Riesle J., van Blitterwijk C. and Langer R.: Effect of unidirectional stretch on skeletal muscle tissue formation, World Congress on Medical Physics and Biomedical Engineering, Chicago, IL, USA, July 2000.
22. **Levin D.**, Ivzada E. and Azhari R., Induction of CD4 and CD8 T cell responses using antigen encapsulated in gelatin-chondroitin sulfate microspheres, Fourth Annual Conference on Vaccine Research, Virginia, USA, April 2001.

23. Lir I, **Haber M.**, Dodiuk H. and Azhari. R., Algal derived tissue adhesive. The 6th International Symposium "Polymers for Advanced Technologies", Eilat, Israel, August 2001.
24. **Azhari R.**, Papadaki M., Westmeyer E., Fong J., Riesle J., van Blitterwijk C. and Langer R., Effect of mechanical stresses on formation of bioartificial muscle tissue, Eastern Mediterranean Chemical Engineering Conference, Ankara, Turkey, May 2001.
25. Lir I, **Haber M.**, Dodiuk H. and Azhari R. Algal biopolymers for biomedical applications, Marine Biotechnology Conference, Haifa, Israel, November 2001.
26. **Lir I**, Haber M., Dodiuk H. and Azhari R. Algal biopolymers: properties and applications. The 30th Annual Conference of the Israel Polymer and Plastic Society, Tel-Aviv, Israel, December 2001.
27. **Lir I**, Haber M., Sagi D., Azhari R. and Dodiuk-Gad H. Development of skin surface model as an adherend for adhesion to skin testing, The 31th Annual Conference of the Israel Polymer and Plastic Society, Rehovot, Israel, December 2002.
28. **Levin D.** and Azhari R., Activation of the immune response by targeting of encapsulated antigen, The 39th meeting of the Israel Institute of Chemical Engineers, Tel Aviv, Israel, June 2003.
29. **Pouliot R.**, Azhari R., Qanadilo H.F., Mahmood T.A., Triantafyllou M.S., Langer, R. "Un biomatériau pour l'amélioration des performances de véhicules sous-marins autonomes: un premier pas vers une reconstruction tissulaire hybride (robotique/tissu vivant)." 5^{ème} Colloque Franco-Québécois sur les polymers, Duschenay, France, June 2003.
30. Levin D. and **Azhari R.**, Gelatin/Chondroitin sulfate microspheres as targeted vaccine carriers, The 5th International Symposium on Frontiers in Biomedical Polymers, Ischia, Italy, September 2003.
31. Qanadilo H. F., **Pouliot R.**, Azhari R., Mahmood T. A., Triantafyllou M. S. and Langer R., Tissue Engineering of fish skin: behavior of fish cells on PEGT/PBT copolymers in relation to the composition of the polymer substrate as an initial step in constructing a robotic/living tissue hybrid, The 6th Annual TESI International Conference and Exposition, Florida, USA, December 2003.
32. **Azhari R.**, Levin D., Taub E. and Mizrachi Y., Targeted delivery of antigens to Antigen Presenting Cells by Gelatin - Chondroitin sulfate microspheres, The 4th Eastern Mediterranean Chemical Engineering Conference (EMCC4), Dead Sea, Israel, January 2006.
33. Levin D, Mizrachi-Nebenzahl Y, Taub E, Dagan A, **Azhari R**, Microspheres as delivery systems for vaccines, The 2nd ORT Braude College Interdisciplinary Research Conference, Maalot, Israel, July 2006.
34. **Azhari R.**, Levenberg S., Kroll E. and Langer R., Modulation of skeletal muscle tissue growth by unidirectional stretch, 42nd Meeting of the Israeli Institute of Chemical Engineers, Tel Aviv, Israel, November 2006.
35. **Azhari R**, Lotan N, Enzymic degradation of polymers: Mathematical modeling and analysis of reaction pathways, Corrosion, Advanced Materials and Processes in Industry (CAMPI), Beer Sheva, Israel, May 2007.
36. Knani D, Shilo M, **Azhari R**, Molecular modelling of gelatin and chondroitin sulfate interactions in aqueous medium, 6th annual meeting of the Israeli Chapter of the Controlled Release Society, Caesarea, Israel, September 2007.
37. Kroll E, **Azhari R**, Zussman E, Characterization of the mechanical properties of composite scaffolds for muscle tissue engineering, The 3rd ORT Braude College Interdisciplinary Research Conference, Kibbutz Hagoshrim, Israel, October 2007.
38. **Azhari R**, Bernshtein A, Levin D, Production of microspheres with adjuvant properties, The 3rd ORT Braude College Interdisciplinary Research Conference, Kibbutz Hagoshrim, Israel, October 2007.

39. **Azhari R**, Kroll E, Zussman E, Tissue engineering of skeletal muscle tissue on hybrid scaffolds, The 4th ORT Braude College Interdisciplinary Research Conference, October 2008, Nazareth, Israel
40. **Azhari R**, Doron A, Levin D, Production of immuno-stimulating microspheres by complex coacervation, The 4th ORT Braude College Interdisciplinary Research Conference, October 2008, Nazareth, Israel.
41. **Azhari R.**, Bonshtein I, Mualem R, Kroll E, Proliferation of Myoblasts and tissue expression on electrospun hybrid scaffolds, The 5th ORT Braude College Interdisciplinary Research Conference, October 2009, Nahariya, Israel.
42. **Levin D**, Azhari R., The use of Glucosaminoglycans-based microspheres as adjuvants. IABS International Scientific workshop: Mode of action of adjuvants, implication for vaccine safety and design, April 2010, Bethesda, MD, USA.
43. **Azhari R.**, Bonshtein I, Mualem R, Kroll E, Effect of stretching on the formation of skeletal muscle tissue on electrospun hybrid scaffolds, The 6th ORT Braude College Interdisciplinary Research Conference, October 2010, Haifa, Israel.
44. **Azhari R.**, Bonshtein I., Polyanovsky J., Mualem R., Kroll E., Effects of stretching regimes on the formation of bioartificial skeletal muscle tissue on electrospun hybrid scaffolds, Tissue Engineering and Regenerative Medicine International Society, Asia Pacific Meeting (TERMIS-AP), August 2011, Singapore.
45. **Azhari R**, Bonshtein I, Kroll E, Profiling expression of structural and functional proteins in engineered muscle tissue following application of various stretching regimes, The 7th ORT Braude College Interdisciplinary Research Conference, September 2011, Kfar Blum.
46. **Azhari R.**, Bonshtein I., Polyanovsky J., Mualem R, Kroll E., Studying mechanotransduction effects on formation of engineered bioartificial skeletal muscle tissue, The 2nd Galil Biomedical Meeting, Tel-Hai, Israel, October 2011.
47. **Azhari R.**, Bonshtein I., Kroll E., Mechanotransduction effects on expression of structural and functional proteins in engineered skeletal muscle tissue, MediTech 2012, Tel-Aviv, Israel, May 2012.

Professional Reports:

1. Azhari R., Progress Report to the Koret Foundation, 1993; a. Self regulated system for triggered release of bioactive materials; b. Degradation of polymers via multiple scission enzymic processes; c. Complexation of IGF1 with binding proteins;
2. Azhari R., Activity Report to the Koret Foundation , 1994
3. Levin D. and Azhari R., Immunomodulation by Targeting of encapsulated antigens: a study of a new vaccination strategy, Report to the Ministry of Health, 1998
4. Levin D. and Azhari R., Targeting of encapsulated antigens for selective triggering of a specific immune response, Report to the Ministry of Health, 1999
5. Levin D. and Azhari R., Targeting of encapsulated antigens for selective triggering of a specific immune response, Final Report to the Ministry of Health, 2003

Magazine article on a research project:

Nadis, S., "Even Robofish need skin", Two if by Sea, A joint newsletter from the MIT and WHOI Sea Grant Programs, 6, 1, 2001.