

# ASLI YUKSEL OZSEN, Ph.D.

## EDUCATIONAL BACKGROUND

**Ph.D. Chemical Engineering**, Kumamoto University, Japan, 2011

Thesis: "Electrolysis in Sub-critical Water for the Chemical Conversion of Various Organic Compounds", Advisor: Prof. Dr. Motonobu GOTO

**M.Sc. Chemical Engineering**, Kumamoto University, Japan, 2008

Thesis: "Hydrothermal Electrolysis of Organic Compounds in Sub-critical Water", Advisor: Prof. Dr. Motonobu GOTO

**B.Sc. Chemical Engineering**, Ege University, Turkey, 2006

Thesis: "Catalytic Wet Air Oxidation of Formic Acid", Advisor: Prof. Dr. Gonul GUNDUZ

## ACADEMIC EXPERIENCE

- **Visiting Researcher**, Chemical Engineering, Nagoya University, Nagoya, Japan, 08 July 2014-04 October 2014
- **Department Vice-Chair**, Chemical Engineering, Izmir Institute of Technology, January 18, 2013-Continue
- **Assistant Professor**, Department of Chemical Engineering, Izmir Institute of Technology, Izmir, Turkey, 2011-Continue

## RESEARCH EXPERIENCE

- Chemical Industry, Soap and Detergent Production, Izmir, Turkey, 2005
- **Engineering Trainee**, Petkim Petrochemical Industry, Ethylene Oxide / Ethylene Glycol Unit, Izmir, Turkey, 2004

## PROFESSIONAL ACTIVITIES

- 1<sup>st</sup> National Laboratory Accreditation and Safety Symposium and Exhibition, 16-18 May 2013, Yıldız Teknik University Davut Pasa Campus, Istanbul, Turkey, Scientific and Technical Advisory Committee Member

## RESEARCH PUBLICATIONS

### Journal Publications

1. **Asli Yuksel**, "Hydrothermal Degradation of Congo Red in Hot Compressed Water and its Kinetics", Journal of Chemical Engineering & Process Technology, November 30, 2013, Volume 4, Issue 9, pp. 179- 188
2. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Complete Degradation of Orange G by Electrolysis in Sub-critical Water", Journal of Hazardous Materials, February 26, 2011, Volume 190, 2011, pp.1058-1062

3. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Green Technology: Hydrothermal Electrolysis for the Treatment of Biodiesel Wastewater", *Research on Chemical Intermediates*, February 06, 2011, Volume 37, 2011, pp. 131-143
4. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis Reaction Pathway for Lactic Acid in Sub-critical Water", *Industrial & Engineering Chemistry Research*, December 09, 2010, Volume 50, Issue 2, 2011, pp. 728-734
5. Mitsuru Sasaki, Wahyudiono, **Asli Yuksel**, Motonobu Goto, "Applications of Hydrothermal Electrolysis for Conversion of 1-Butanol in Wastewater Treatment", *Fuel Processing Technology*, Volume 91, Issue: 9, September 2010, pp. 1125-1132
6. **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Glycerol Using a Continuous Flow Reactor", *Industrial & Engineering Chemistry Research*, January 19, 2010, Volume 49, Issue 4, pp. 1520-1525
7. **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Glycerol in Subcritical Water", *Journal of Renewable and Sustainable Energy*, June 30, 2009, Volume 1, Issue 3, pp. 033112 1-11

### **Conference Publications**

1. **Asli Yuksel**, Okan Akin, "Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals", AMADEUS-4<sup>th</sup> International Sovothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE (*Accepted*)
2. Okan Akin, **Asli Yuksel**, "Software Simulation of Electrolysis Reaction of Biomass Under Hydrothermal Conditions", AMADEUS-4<sup>th</sup> International Sovothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE (*Accepted*)
3. **Asli Yuksel**, "Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals", American Chemical Society (ACS) Meeting, March 16-20, 2014, Dallas, Texas, USA
4. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Alcohols in High Temperature-High Pressure Water", 2012 The Materials Research Society (MRS) Fall Meeting, November 25-30, 2012, Boston, Massachusetts, USA
5. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Green Technology: Hydrothermal Electrolysis for the Treatment of Biodiesel Wastewater", The 2<sup>nd</sup> International Solvothermal and Hydrothermal Association Conference 2010 (ISHA2010), Beijing, CHINA
6. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Environmentally Friendly Technique: Hydrothermal Electrolysis to Decompose Organic Contaminants", The 4<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), May 25-26, 2010, Izmir, Turkey
7. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Degradation of Glycerol by Electrolysis in Sub-critical Water", 12<sup>th</sup> European Meeting on Supercritical Fluids, May 9-12, (2010), Graz, Austria
8. Mitsuru Sasaki, Takanari Oshikawa, Hiromichi Koga, **Asli Yuksel**, Wahyu Diono, Motonobu Goto, "Reaction Pathway Analysis for Electrolysis of Alcohols and Sugars in Sub-Critical Water", 09AIChE Annual Meeting, (2009), Nashville, TN, USA

9. Wahyudiono, Taku Kuroda, **Asli Yuksel**, Mitsuru Sasaki and Motonobu Goto, "Hydrothermal Processes for Removal of Wastewater Containing Organic Pollutants", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009), (2009), Sendai, JAPAN
10. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Biodiesel Wastewater by Electrolysis in Sub-critical Water", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009), (2009), Sendai, JAPAN
11. **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Treatment of BDF Wastewater with Hydrothermal Electrolysis", Proceedings of 9<sup>th</sup> International Symposium on Supercritical Fluids (ISSF2009), (2009), Arcachon, FRANCE
12. Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, "Hydrothermal Electrolysis of BDF Wastewater Containing Glycerol", The 4<sup>th</sup> International Symposium on Material Cycling Engineering, (2009), Osaka, JAPAN
13. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Organic Compounds in Sub-critical Water", Proceedings of the 21<sup>st</sup> International Symposium on Chemical Engineering, (2008), Saga, JAPAN
14. Motonobu Goto, Hiromichi Koga, **Asli Yuksel**, Mitsuru Sasaki, Yutaka Kuwahara, "Electrochemical Reaction of Alcohols in Sub-Critical Water", 08AIChE Annual Meeting, (2008), Philadelphia, USA
15. Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Rumiko Hayashi, Wahyudiono, Mitsuru Sasaki, "Reaction of Organic Compounds by Hydrothermal Electrolysis in Subcritical Water", The 3<sup>rd</sup> International Symposium on Material Cycling Engineering, (2008), Osaka, JAPAN
16. **Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Various Alcohols in Sub-critical Water", The 5<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2007), (2007), Seoul, KOREA
17. **Asli Yuksel**, Wahyudiono, Rumiko Hayashi, Mitsuru Sasaki, Motonobu Goto, "Electrical Treatment of Various Alcohols in Sub-critical Water for Understanding Electrochemical Reaction Behavior", Proceedings of International Symposium on EcoTopia Science (ISETS07), Nagoya, JAPAN
18. **Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Organic Contaminants", 07 AIChE Annual Meeting, (2007), Salt Lake City, Utah, USA

## RESEARCH PROJECTS

- 'Recovery of Bioactive Polyphenols by Hybrid Extraction Process with Supercritical Carbon Dioxide and Water', **Principal Investigator**, The Scientific and Technological Research Council of Turkey (TUBITAK-BIDEB-2219 Program), Project No: 1059B191400662, (July 08-October 04 2014)
- "Synthesis of Biomass Sourced Value Added Chemicals by Hydrothermal Electrolysis Technique (HYDELTECH)", **Principal Investigator**, Marie Curie Career Integration Grants 2012 (FP7-PEOPLE-2012-CIG), Project No: PCIG11-GA-2012-321741, (September 2012-September 2016)
- "Degradation of Azo-dyes in Sub-critical Water Reaction Medium", **Principal Investigator**, Scientific Research Projects of Izmir Institute of Technology, 2012 (IYTE BAP 2012), Project No: 2012IYTE01, Turkey (September 2012-March 2014)

- “Technology Development for High Efficiency Biomass Energy Conversions by Hydrothermal Electrolysis”, **Researcher**, NEDO (New Energy and Industrial Technology Development Organization), Japan (April 2006-March 2009)
- “Development of Effective Detoxification Technology of Persistent Organics in Wastewater by Hydrothermal Electrolysis”, **Researcher**, Ministry of Environment of Japan (April 2007-March 2009)
- “Treatment of BDF Wastewater with Hydrothermal Electrolysis”, **Principal Investigator**, Global COE (Center of Excellence) Acceleration Research, Japan (May 2008-March 2009)
- “Biodiesel Wastewater (BDF) Treatment by Using Hydrothermal Electrolysis Technique”, **Principal Investigator**, Global COE Acceleration Research, Japan (May 2009-March 2010)
- “Treatment of Nitrogen Containing Wastewater by Hydrothermal Electrolysis Technique”, **Principal Investigator**, Global COE Acceleration Research, Japan (May 2010-March 2011)

## LIST OF INTERNATIONAL CONFERENCE PRESENTATIONS

- 1. Asli Yuksel**, Okan Akin, “Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals”, AMADEUS-4<sup>th</sup> International Sovothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE (*Accepted*)
- 2.** Okan Akin, **Asli Yuksel**, “Software Simulation of Electrolysis Reaction of Biomass Under Hydrothermal Conditions”, AMADEUS-4<sup>th</sup> International Sovothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE (*Accepted*)
- 3. Asli Yuksel**, “Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals”, American Chemical Society (ACS) Meeting, March 16-20, 2014, Manuscript No: 455, Dallas, Texas, USA
- 4. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Electrolysis of Alcohols in High Temperature-High Pressure Water”, 2012 The Materials Research Society (MRS) Fall Meeting, November 25-30, 2012, Boston, Massachusetts, USA
- 5. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Electrolysis Reaction Mechanism for Glycerol in Sub-critical Water”, The 5<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), December 15-16, 2010, Kumamoto, JAPAN
- 6. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Electrolysis Reaction Pathway for Glycerol in Sub-critical Water”, SCEJ (The Society of Chemical Engineers, Japan), November 18-19, 2010, Nagasaki, JAPAN
- 7.** Takanari Oshikawa, **Asli Yuksel**, Koga Hiromichi, Mitsuru Sasaki, Motonobu Goto, “Reaction Mechanism of Glycerol and Saccharides by Hydrothermal Electrolysis”, Society of Chemical Engineers, Japan The 42<sup>nd</sup> Autumn Meeting, September 06-08, 2010, Kyoto, JAPAN
- 8. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “A New Green Technology: Hydrothermal Electrolysis for the Treatment of Biodiesel Wastewater”, The 2<sup>nd</sup> International Solvothermal and Hydrothermal Association Conference 2010 (ISHA2010), July 27-29, 2010, Beijing, CHINA

- 9. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Environmentally Friendly Technique: Hydrothermal Electrolysis to Decompose Organic Contaminants", The 4<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), May 25-26, 2010, Izmir, TURKEY
- 10. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Degradation of Glycerol by Electrolysis in Sub-critical Water", 12<sup>th</sup> European Meeting on Supercritical Fluids, May 9-12, 2010, Graz, AUSTRIA
- 11.** Mitsuru Sasaki, **Yuksel Asli**, Wahyudiono, Motonobu Goto, "Continuous Degradation of Model BDF Production Waste Using Hydrothermal Electrolysis", The 5<sup>th</sup> International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Sciences, March 8-9, 2010, TAIWAN
- 12.** Mitsuru Sasaki, Takanari Oshikawa, Hiromichi Koga, **Asli Yuksel**, Wahyu Diono, Motonobu Goto, "Reaction Pathway Analysis for Electrolysis of Alcohols and Sugars in Sub-Critical Water", 09AIChE Annual Meeting, November 8-13, 2009, Nashville, TN, USA
- 13. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Biodiesel Wastewater with Hydrothermal Electrolysis", SCEJ (The Society of Chemical Engineers, Japan) 2<sup>nd</sup> Three-Branch Joint Meeting, October 30-31, 2009, Kitakyushu, JAPAN
- 14.** Wahyudiono, Taku Kuroda, **Asli Yuksel**, Mitsuru Sasaki and Motonobu Goto, "Hydrothermal Processes for Removal of Wastewater Containing Organic Pollutants", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009), October 15-17, 2009, Tohoku University, Sendai, JAPAN
- 15. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Biodiesel Wastewater by Electrolysis in Sub-critical Water", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009,) October 15-17, 2009, Tohoku University, Sendai, JAPAN
- 16. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of BDF Wastewater by Batch and Flow Type Reactors", 2<sup>nd</sup> Hope Meeting "Art in Science" (together with Nobel laureates), September 27-October 1, 2009, Hakone, Kanagawa Prefecture, JAPAN
- 17. Asli Yuksel**, Mitsuru Sasaki and Motonobu Goto, "Treatment of Model Biodiesel Wastewater by Autoclave Electrolysis in Sub-critical Water", Kumamoto University Global COE Program "Global Initiative Center for Pulsed Power Engineering" International COE Forum on Pulsed Power Engineering & Young Researcher Training Camp, September 13-16, 2009, Kumamoto, JAPAN
- 18.** Mitsuru Sasaki, Takanari Oshikawa, **Asli Yuksel**, Hiromichi Koga, Yutaka Kuwahara, Motonobu Goto, "Electrolysis Reaction Pathways for Alcohols and Sugars in Sub-Critical Water," International Conference on High Pressure Science and Technology (Joint AIRAPT-22 & HPCJ-50), July 26-31, 2009, Odaiba, Tokyo, JAPAN
- 19. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Model Biodiesel Wastewater by Autoclave Electrolysis in Sub-critical Water", 46th Godo Conference, July 11, 2009, Kitakyushu, JAPAN
- 20. Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Treatment of BDF Wastewater with Hydrothermal Electrolysis", 9<sup>th</sup> International Symposium on Supercritical Fluids (ISSF 2009), May 18-20, 2009, Arcachon, FRANCE
- 21.** Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, "Hydrothermal Electrolysis of BDF Wastewater Containing Glycerol", The 4<sup>th</sup> International Symposium on Material Cycling Engineering, March 10-11, 2009, Osaka, JAPAN

**22. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of BDF Wastewater by Batch and Flow Type Reactors”, Green & Sustainable Chemistry Network 2009 (GSCN), March 9-10, 2009, Tokyo, JAPAN

**23. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Electrolysis of Organic Compounds in Sub-critical Water”, Japan-South Korea International Joint Symposium, December 6-8, 2008, Saga, JAPAN

**24.** Motonobu Goto, Hiromichi Koga, **Asli Yuksel**, Mitsuru Sasaki, Yutaka Kuwahara, “Electrochemical Reaction of Alcohols in Sub-Critical Water”, 08AIChE Annual Meeting, November 16-21, 2008, Philadelphia, USA

**25. Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Various Alcohols in Sub-critical Water for Understanding Electrochemical Reaction Behavior”, International Solvothermal and Hydrothermal Association Conference 2008 (ISHA2008), September 8-10, 2008, Nottingham, UK

**26. Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Compounds in Sub-critical Water”, 2<sup>nd</sup> International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, June 26-28, 2008, Kumamoto, JAPAN

**27.** Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Rumiko Hayashi, Wahyudiono, Mitsuru Sasaki, “Reaction of Organic Compounds by Hydrothermal Electrolysis in Subcritical Water”, The 3<sup>rd</sup> International Symposium on Material Cycling Engineering, March 13-14, 2008, Osaka, JAPAN

**28. Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Various Alcohols in Sub-critical Water”, The 5<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2007), November 28-30, 2007, Seoul National University, Seoul, SOUTH KOREA

**29. Asli Yuksel**, Wahyudiono, Rumiko Hayashi, Mitsuru Sasaki, Motonobu Goto, “Electrical Treatment of Various Alcohols in Sub-critical Water for Understanding Electrochemical Reaction Behavior”, International Symposium on Eco Topia Science 2007, November 23-25, 2007, Nagoya, JAPAN

**30. Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Contaminants”, 07 AIChE Annual Meeting, November 4-9, 2007, Salt Lake City, Utah, USA

**31. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Compounds”, Society of Chemical Engineers, Japan The 39<sup>th</sup> Autumn Meeting, September 13-15, 2007, Sapporo, JAPAN

**32. Asli Yuksel**, Taku Kuroda, Rumiko Hayashi, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Wastewater Contaminants”, 1<sup>st</sup> International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, March 2-6, 2007, Beijing, CHINA

## LIST OF NATIONAL CONFERENCE PRESENTATIONS

1. Meral Dukkanci, **Asli Yuksel**, Gonul Gunduz, Wet Air Oxidation of Formic Acid inside Wastewaters, 7<sup>th</sup> National Chemical Engineering Conference (UKMK-7), September 5-8, 2006, Eskisehir, TURKEY

## HONORS & AWARDS & SCHOLARSHIPS

- **“Post Doctoral Fellowship Award”** by The Scientific and Technological Research Council of Turkey (TUBITAK-BIDEB-2219 First Term Program).
- **“Academic Excellence (University President's) Award”**, New Frontier Sciences, Kumamoto University, March 25, 2011, JAPAN
- **Invited Researcher** by JSPS (Japan Society for the Promotion of Science) to attend a workshop called “3<sup>rd</sup> Hope Meeting” together with Nobel laureates, March 7-11, 2010, Tokyo, JAPAN
- **Grantee by JSPS** as a young researcher to attend a workshop called “2<sup>nd</sup> Hope Meeting: Art in Science” together with Nobel laureates, September 27-October 1, 2009, Hakone, Kanagawa Prefecture, JAPAN
- **Japanese Government (Monbukagakusho:Mext) Scholarship for Ph.D. Course** in Graduate School of Science and Technology, Kumamoto University, Japan (2008-2011)
- **Japanese Government (Monbukagakusho:Mext) Scholarship for M.Sc. Course** in Graduate School of Science and Technology, Kumamoto University, Japan (2006-2008)
- **Ege University Science and Technology Research Center Scholarship (EBİLTEM)**, Turkey (2005-2006)

### Awards from International Conferences:

- **“Best PhD Student Presentation Award”** from SCEJ (The Society of Chemical Engineers, Japan) November 18-19, 2010, Nagasaki, Japan
- **“The Excellence Award”** in oral presentation competition for students at the 2nd International Solvothermal & Hydrothermal Association Conference (ISHA2010), July 27-29, 2010, Beijing, CHINA
- **“Best Presentation Award”** from 4th International Symposium on Material Cycling Engineering, March 10, 2009, Osaka, JAPAN
- **“Best Poster Award”** from Supergreen 2007 the 5th International Symposium on Supercritical Fluid Technology, November 28-30, 2007, Seoul, Korea
- **“Best Presentation Award”** from 1st International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, March 2-6, 2007, Beijing, China

## PROFESSIONAL ASSOCIATIONS

- American Chemical Society (ACS)
- The Materials Research Society (MRS)
- International Solvothermal & Hydrothermal Association (ISHA)
- Chemical Engineering Society of Japan
- American Institute of Chemical Engineers (AIChE)
- Ege University Science and Technology Association

## LANGUAGE SKILLS

English : Advanced (TOEFL-IBT: **82** / 120 (2011) ; TOEIC: **710** / 900 (2006))

Japanese: Intermediate (Japanese Language Proficiency Test (JLPT): **308** / 400 (2010))

## REFERENCES

- **Motonobu GOTO, Ph.D.**

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- **María José Cocero, Ph.D.**

Professor at Department of Chemical Engineering, Valladolid University

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- **Mitsuru SASAKI, Ph.D.**

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