

**1. Name & Contact Information**

Name: **Salem Mohammad Alkanaimsh**  
Rank: Assistant Professor  
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**2. Education**

Degree	Discipline	Institution	Year
Ph.D.	Biochemical Engineering	University of California Davis, Davis, CA, USA	2017
M.Sc.	Biochemical Engineering	University of California Davis, Davis, CA, USA	2012
B.Sc.	Chemical Engineering	Kuwait University	2009

**3. Academic Experience**

Institution	Designation	Year/Period	FT/PT
Kuwait University	Assistant Professor	2017-present	FT

**4. Non-Academic Experience**

Organization	Designation	Year/Period	FT/PT
Kuwait Oil Company (KOC)	Engineer Underdevelopment (Well Surveillance)	2009-2010	FT

**5. Membership in Professional Organizations:**

- American Institute of Chemical Engineers (AIChE)
- American Chemical Society (ASC)

**6. Honors and Awards:**

- B.Sc. Engineering with Honors, 2009.

**7. Courses Taught:**

- Chemical Engineering Principles (0640211)
- Kinetics A & Reactor Design A (0640324)
- Mass Transfer (0640345)

- Kinetics & Reactor Design B (0640428)
- Introduction to Bioengineering (0640462)
- Advanced Reactor Design (0640522)
- Advanced Mass Transfer (0640544)
- Special Topics in Pollution Engineering (0640595)

#### **8. Service Activities (within and outside of the institution) (Most recent):**

- Coordinator, Student organization Chapter Committee, ChE Department, KU, 2017-2019.
- Director for General facility Petroleum Refining & Petrochemical Research Lab (2022-present)
- Coordinator, Academic Schedule Committee, ChE Department, KU, 2020-2022
- Member, Academic Schedule Committee, ChE Department, KU, 2017- present
- Member, Student Affairs Committee, ChE Department, KU, 2018-2019.
- Member, Scientific Research Committee, ChE Department, KU, 2018-2019.
- Member, Research laboratory Committee, ChE Department, KU, 2019-2020
- Member, Scholarship Committee, ChE Department, KU, 2020-2022
- Member, Graduate Studies Committee, ChE Department, KU, 2022-present
- Secretary, Departmental meetings, ChE Department, KU, 2018-present.
- Member, Examination of Expat Engineers Committee, KSE, 2018-2019
- Involved in external examinations for outside agencies, 2024

#### **9. Publications and Presentations**

##### *Published Journal Papers*

- **Alkanaimsh S**, Corbin JM, Kailemia MJ, Karuppanan K, Rodriguez R, Lebrilla CB, McDonald KA, Nandi S. (2018) “Purification and site-specific N-glycosylation analysis of human recombinant butyrylcholinesterase from *Nicotiana benthamiana*”, *Biochemical Engineering Journal*, 142, 58-67.
- Corbin JM, Kailemia MJ, Cadieux CL, **Alkanaimsh S**, Karuppanan K, Rodriguez RL, Lebrilla CB, Cerasoli DM, McDonald KA, Nandi S, (2018), “Purification, characterization, and N-glycosylation of recombinant butyrylcholinesterase from transgenic rice cell suspension cultures”, *Biotechnol. Bio. Eng.*, 115(5):1301-1310.
- **Alkanaimsh S**, Karuppanan K, Guerrero A, Tu AM, Hashimoto B, Hwang MS, Phu ML, Arzola L, Lebrilla CB, Dandekar AM, Falk BW, Nandi S, Rodriguez RL, McDonald KA. (2016), “Transient Expression of Tetrameric Recombinant Human Butyrylcholinesterase in *Nicotiana benthamiana*”. *Front Plant Sci.*, 16, (7), 743.

### ***Presentations***

- **Salem Alkanaimsh**, Kalimuthu Karuppanan, Somen Nandi, Raymond Rodriguez, Karen A McDonald, “Agrobacterium Mediated Transient Expression of Butyrylcholinesterase, a Biodefense Agent, in Nicotiana Benthamiana Plants” 2016 AICHE Annual meeting
- Jasmine Corbin, **Salem Alkanaimsh**, Muchena Kailemia, Kalimuthu Karuppanan, Raymond Rodriguez, Karen A McDonald, Somen Nandi. “Integrated bioprocess for production of recombinant butyrylcholinesterase from transgenic rice cell suspension cultures” 2016 Division of Biochemical Technology, 253<sup>rd</sup> ACS National meeting
- **Salem Alkanaimsh**, Kalimuthu Karuppanan, Karen A McDonald, Somen Nandi, Raymond Rodriguez. “Recovery and Purification of Recombinant Butyrylcholinesterase from Nicotiana Benthamiana Plants”, 2015 AIChE Annual meeting
- **Salem Alkanaimsh**, Bryce Hashimoto, Andrés Guerrero, Min Sook Hwang, My Phu, Aye Tu, Lucas Arzola, Kalimuthu Karuppanan, Carlito Lebrilla, Abhaya M. Dandekar, Bryce W. Falk, Somen Nandi, Raymond Rodriguez, Karen A McDonald. “Expression, Purification and Characterization of Recombinant Human Butyrylcholinesterase in Nicotiana Benthamiana” 2014 AICHE Annual meeting
- Kalimuthu Karuppanan, **Salem Alkanaimsh**, Karen A McDonald. “Purification of Plant-Made Human Recombinant Alpha-1-Antitrypsin” 2014 AICHE annual meeting
- **Salem Alkanaimsh**, Somen Nandi, Min Sook Hwang, Andrés Guerrero, Yanhong Li, Lucas Arzola, Bryce Hashimoto, Aye Tu, My Phu, Abhaya M. Dandekar, Bryce W. Falk, Xi Chen, Carlito Lebrilla, Raymond Rodriguez, Karen A McDonald “Expression of Recombinant Human Butyrylcholinesterase in Nicotiana Benthamiana and Its Postproduction In-vitro Glycosylation Modification”, 2013 Annual AIChE meeting.

### **10. Supervised Thesis:**

- “Techno-economic model analysis of PEGylated biopharmaceutical recombinant protein”, (Co-Supervisor), Thesis, Abdullah Alsalal, 2023.
- “Cyclic Semi-batch operation of random PEGylation reactions”, (Co-Supervisor), Thesis, Hager Sabti, ongoing
- “Enzymatic microreactor modelling of asymmetric ketone reduction”, (Co-Supervisor), Thesis, Shahd Alfalieh, ongoing

### **11. Recent Professional Development Activities**

- Attended 2020 Division of Biochemical Technology, 260<sup>th</sup> ACS National meeting
- Attended 2018 AICHE Annual meeting (2018)
- Attended 9<sup>th</sup> International HSSE & Loss Prevention Professional Development Conference (2018)