

Ana Tellechea, PharmD, PhD

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Summary

- Experienced manager with entrepreneurial, strategic, creative thinking, and problem-solving skills, leading development of novel technologies for patient use with quality and compliance.
- Translational scientist with strong analytical, research, and communication skills, as evidenced by 18 peer-reviewed publications, 10+ competitive awards, and 25+ presentations.
- Outstanding relationship builder with superior leadership skills, setting-up and/or driving prolific internal & external collaborations (team members, vendors, CROs, academia, KOLs).

Work Experience

Product Development Manager

August 2019 – June 2022

Senior Product Development Manager

June 2022 - Present

Gel4Med Inc., Lowell, MA (remote)

- Lead R&D, regulatory, quality, and risk management efforts in developing new technologies.
- Identify opportunities, user/stakeholder needs, advise on product features, guide study designs, and establish compliant verification & validation activities for product development.
- Implement quality management systems, including documentation and vendor requirements.

Science Consultant

December 2018 – July 2019

Gel4Med Inc., Lowell, MA (remote)

- Reviewed literature to maintain groundbreaking knowledge on clinical & industry news.
- Performed data analysis, prepared reports, and suggested new studies or improvements.

Post-Doctoral Fellow

October 2016 - Present

New York University School of Medicine, New York, NY

- Managed multiple projects and conducted fast paced research in tissue regeneration, resulting in 5 abstracts, 1 high-ranking abstract, 1 presentation award, and 1 first-author publication.
- Liaised between 5 academic labs and 2 CROs to design and develop small molecule inhibitors as a novel therapeutic approach for cancer, resulting in 3 abstracts and 1 NIH award.

Post-Doctoral Fellow

January 2015 – September 2016

Harvard Medical School, Boston, MA

- Led cross-functional collaborations across up to 6 academic and industry teams (clinical, basic, and translational research) in wound healing projects, resulting in 3 publications, 3 travel awards, 1 best presentation award, and grant funding via multiple NIH awards.

Visiting PhD Student

March 2010 – December 2014

Harvard Medical School, Boston, MA

- Independently designed and performed research studies to identify & correct abnormalities in diabetic skin and improve diabetic wound healing, resulting in 4 first author publications, 3 travel awards, 2 best presentation awards, and 1 doctoral thesis.
- Managed communications & collaborations between up to 5 internal, external, national & international research teams, resulting in 7 publications and continued grant funding.

PhD Student

January 2009 – February 2010

University of Coimbra Center for Neuroscience & Cell Biology, Coimbra, Portugal

- Managed diabetes-focused collaboration, resulting in 2 publications and media exposure.
- Analyzed and synthesized scientific literature and wrote 1 review article for publication.

Research Assistant

March 2008 – December 2008

University of Coimbra Center for Neuroscience & Cell Biology, Coimbra, Portugal

- Developed, characterized, and tested modified liposomes for targeted and sustained drug delivery for ophthalmological diseases, resulting in successful progress reports.

Education

PhD, Biology (University of Coimbra/Harvard Medical School)

December 2014

PharmD, Pharmaceutical Sciences (University of Coimbra)

October 2006

Selected Honors and Awards

- Honors: Guest Lecturer: Biomedical Engineering Class at UMass Amherst (2021) & Washington University (2020); Invited Reviewer: Journal of Tissue Engineering & Regenerative Medicine (2019), Journal of Diabetes and its Complications (2018), “Skin Tissue Models” textbook (2017), Tissue Engineering (2014), PlosOne (2014), Journal of Diabetes Research (2013); Selected Podium Presenter: Regeneron Science to Medicine Forum (2017), Wound Healing Society Meeting (2012, 2013, 2014, 2016, 2021), PAPS Speakers series - Translational Research (2016); Invited Author: “The Diabetic Foot” textbook chapter (2016).
- Awards: Young Investigator Award (2021); Outstanding Professional serving as a Knowledge/Innovation Facilitator Award (2019, 2020, 2021); Outstanding Contribution in Reviewing (2018); Best Presentation Award (2017, 2016, 2014, 2013); High-Ranking Abstract Award (2016, 2014); Outstanding Achievement in Surgery Research Award (2016, 2013); Excellence and Innovation in Surgery Research Award (2014).

Publications

Selected Peer-Reviewed Manuscripts (complete list: <https://orcid.org/0000-0001-9387-7706>)

- Dinh T, Tecilazich F, Kafanas A, Doupis J, Gnardellis C, Leal E, Tellechea A, Pradhan L, Lyons TE, Giurini JM, Veves A. Mechanisms involved in the development and healing of diabetic foot ulceration. *Diabetes*. 2012 Nov;61(11):2937-47.
- Tellechea A, Kafanas A, Leal EC, Tecilazich F, Kuchibhotla S, Auster ME, Kontoes I, Paolino J, Carvalho E, Nabzdyk LP, Veves A. Increased skin inflammation and blood vessel density in human and experimental diabetes. *The International Journal of Lower Extremity Wounds*. 2013 Mar;12(1):4-11.
- Tellechea A*, Leal EC*, Carvalho E*, Kafanas A, Tecilazich F, Kearney C, Kuchibhotla S, Auster ME, Kokkotou E, Mooney DJ, LoGerfo FW, Pradhan-Nabzdyk L, Veves A. Substance P promotes wound healing in diabetes by modulating inflammation and macrophage phenotype. *American Journal of Pathology*. 2015 Jun;185(6):1638-48.
- Tellechea A, Silva EA, Min J, Leal EC, Auster ME, Pradhan-Nabzdyk L, Shih W, Mooney DJ, Veves A. Alginate and DNA gels are suitable delivery systems for diabetic wound healing. *The International Journal of Lower Extremity Wounds*. 2015 Jun;14(2):146-53.
- Khamaisi M, Katagiri S, Keenan H, Park K, Maeda Y, Li Q, Qi W, Thomou T, Eschuk D, Tellechea A, Veves A, Huang C, Orgill DP, Wagers A, King GL. PKC δ inhibition normalizes the wound-healing capacity of diabetic human fibroblasts. *Journal of Clinical Investigation*. 2016 Mar 1;126(3):837-53.
- Tellechea A, Leal EC, Kafanas A, Auster ME, Kuchibhotla S, Ostrovsky Y, Tecilazich F, Baltzis D, Zheng Y, Carvalho E, Zabolotny JM, Weng Z, Petra A, Patel A, Panagiotidou S, Pradhan-Nabzdyk L, Theoharides TC, Veves A. Mast cells regulate wound healing in diabetes. *Diabetes*. 2016 Jul;65(7):2006-19.
- Kashpur O, Smith A, Gerami-Naini B, Maione AG, Calabrese R, Tellechea A, Theocharidis G, Liang L, Pastar I, Tomic-Canic M, Mooney D, Veves A, Garlick JA. Differentiation of diabetic foot ulcer-derived induced pluripotent stem cells reveals distinct cellular and tissue phenotypes. *FASEB J*. 2018 Aug 8:fj201801059.
- Tellechea A*, Bai S*, Dangwal S*, Theocharidis G*, Nagai M, Koerner S, Cheong JE, Bhasin S, Shih TY, Zheng Y, Zhao W, Zhang C, Li X, Kounas K, Panagiotidou S, Theoharides T, Mooney

- D, Bhasin M, Sun L, Veves A. Topical Application of a Mast Cell Stabilizer Improves Impaired Diabetic Wound Healing. *J Invest Dermatol.* 2020 Apr;140(4):901-911.e11. doi: 10.1016/j.jid.2019.08.449. Epub 2019 Sep 27. PMID: 31568772.
- Theocharidis G, Baltzis D, Roustit M, Tellechea A, Dangwal S, Khetani RS, Shu B, Zhao W, Fu J, Bhasin S, Kafanas A, Hui D, Sui SH, Patsopoulos NA, Bhasin M, Veves A. Integrated Skin Transcriptomics and Serum Multiplex Assays Reveal Novel Mechanisms of Wound Healing in Diabetic Foot Ulcers. *Diabetes.* 2020 Oct;69(10):2157-2169. doi: 10.2337/db20-0188. Epub 2020 Aug 6. PMID: 32763913; PMCID: PMC7506837.
 - Tellechea A*, Pandya UM*, Manzanares MA*, Egbuta C, Daubriac J, Jimenez-Jaramillo C, Samra F, Fredston-Hermann A, Saadipour K, Gold LI. Calreticulin exploits TGF- β for extracellular matrix induction engineering a tissue regenerative process. *FASEB J.* 2020 Dec;34(12):15849-15874. doi: 10.1096/fj.202001161R. Epub 2020 Oct 5.

(* indicates equal contribution)

Book Chapter

- Tellechea A, Pradhan-Nabzdyk L, LoGerfo FW, Veves A. Neuropeptides, inflammation, and diabetic wound healing: Lessons from experimental models and human subjects. *The Diabetic Foot.* 2018.

Patent:

- ALVES TELLECHEA ANA (US); MEKALA RAVI (US); KUMAR KUSHEE-NIDHI (US); LIU HUNG-YI (US); LEE YEWOO (US); MEHTA MANAV (US). TOPICAL AND PARENTERAL USE AND ADMINISTRATION OF SELF-ASSEMBLING AMPHIPHILIC PEPTIDE HYDROGELS / GEL4MED INC (US).2022.