



Andrea C. del Valle

Ph.D. Biomedical Engineering

PROFILE

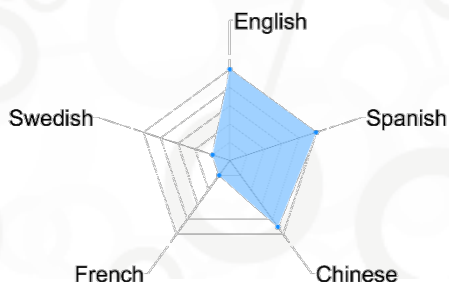
I am a diligent scientist with experience in delivering development projects through to GMP manufacturing. I am competent in ensuring projects are delivered to agreed quality standards and in line with clinical expectations. I have experience on patent application documents in the drug research industry. As well as training in ICH and FDA guidelines for biomedical research.

Research Orientation: Pharmaceutical drug development for further application in metabolic diseases therapy and its translation to the industry.

CONTACT

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LANGUAGES



SKILLS

- +Proven experience in academic and laboratory training.
- +*In vitro* and *in vivo* pre-clinical studies design.
- +Proven industry knowledge in drug product development.
- +Extensive knowledge of metal, polymer, carbon-based nanoparticle characterization SEM, TEM, DLS/Z-potential, IPC-OES/MS, and UV-VIS (see Selected Publication)
- +Extensive knowledge and proven practical experience in the manufacture of a range of dosage forms to cGMP standards.
- + Proven track record working with multiple divisions.
- +Capable of writing and reviewing technical documentation such as technical specifications, technical reports, manufacturing batch records, and product and process risk assessments.
- +Excellent engagement and influencing skills at senior management level.

PROFESSIONAL DEVELOPMENT

Post-Doctoral Researcher Karolinska Institutet | Sweden | September 2021 –Present
I work with and experimentally extend a single-cell atlas of tumor cells and their liver microenvironment to seek the main role of hepatocytes in pancreatic tumor metastasis. I validate my hypothesis by performing *in vitro* and *in vivo* experiments, such as CRISPR-Cas9 KO, IHC, PCR, Western blot analysis, and genomic sequencing.

Research Intern Atrogi AB | Sweden | August-Oct 2022
Research and development of pharmaceutical compounds for type 2 diabetes. Optimizing the Seahorse XF experimental procedures in BAT mouse and human primary cells.

Developing and characterizing mouse NASH model for drug development and testing.
Post-Doctoral Researcher National Tsing Hua University | Taiwan | 2020 – 2021
Conduct an independent pharmaceutical research initiative for SPARK NTHU program. Seeking the pharmaceutical development from the drug discovery to the clinical and market translation, including medical regulation implementation, intellectual property registry, negotiation, marketing, and commercialization planning.

Ph.D. Biomedical Engineering National Tsing Hua University | Taiwan | 2014 – 2020
Thesis Topic: Photo-Responsive Metal-Based Nanoparticles for Treatment of Multidrug-resistant Tumors
The xenograft human multidrug-resistant tumor was developed and established in BALB/c nude mice. Additionally, synthesis and characterization of metal-based nanoparticles was conducted and analyzed. Finally, their application and targeting pathways were also evaluated.

Professional Certificate in Genetics and Genomics Stanford University | USA | 2016 - 2018

B.S. Biomedical Engineering National Tsing Hua University | Taiwan | 2010 – 2014

EXTRA CURRICULAR ACTIVITIES

- 2022-Present: Secretary of the Swedish Network of Postdoc Association (SNPA), Sweden
- 2022-2023: Chair of Karolinska Institutet Postdoctorate Association (KIPA), Sweden.
- 2020-Present: *ad hoc* reviewer for Laboratory Medicine.
- 2020-Present: Active Member of Organization for Women in Science for the Developing World (OWSD) Guatemala. **Profile**
- 2015 – 2018: Coordinator and Educator, Advanced Level Biology, Hsinchu International School, Taiwan (organizing laboratory visits, science fairs, and early career symposia)
- 2014 – 2016: Teaching Assistant, Biochemistry, National Tsing Hua University, Taiwan

SUPERVISION

PhD Student:

2018-2020 Bhanu Nirosha (co-supervisor)

Master Student

2020-2021 Jia-Jun Wu: Master thesis (co-supervisor)

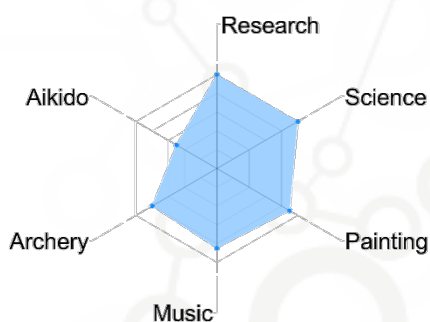
2022 Christos Vogiatzakis (co-supervisor)

Undergraduate Students

2014-2015 Trần Thị Thúy Hà: Undergraduate thesis (supervisor)

2015-2017 Xiao-Qing Chen: Undergraduate research project and master application (supervisor)

INTEREST



CERTIFICATION

- Patent Law Specialization, University of Pennsylvania
- Project Manager Specialization, Google
- Laboratory Animal Function A and B - Rodents and lagomorphs, FELASA accredited, Karolinska Institutet
- Anaesthesia, analgesia, and surgery - mice and rats- Karolinska Institutet
- Animal Research: Critical,Challenging and Creative Thinking- Karolinska Institutet
- Healthcare Innovation and Entrepreneurship, Duke University
- Innovation for Entrepreneurs, University of Maryland
- Design and Interpretation of Clinical Trials, Johns Hopkins University

HONORS & AWARDS

- 2021: Karolinska Institutet Postdoctorate Scholarship receipt (1.5 years)
- 2021: An offered position as Assistant Professor, International Ph.D. Program in Biomedical Engineering, College of Biomedical Engineering, Taipei Medical University
- 2019: Outstanding Student Oral Presentation Award. IADDS-BCRS meeting.
- 2017: Outstanding oral presentation award, isCEBT meeting, Tohoku University, Sendai, Japan
- 2015: Outstanding Poster Award, International Symposium on chemical and polyscale technologies. Taipei, Taiwan
- 2014-2018: National TsingHua University International Ph.D. Student Scholarship
- 2014: Taiwan's Government Academic Award
- 2014: Chapin Forte Award for scientific discoveries, Donovan Werke Pharmaceuticals, Guatemala
- 2009-2014: Taiwan Scholarship Award

SELECTED PUBLICATIONS

1. Preprint: An idiosyncratic, zonated stroma encapsulates desmoplastic liver metastases and originates from injured liver DOI: 10.1101/2022.08.24.22279162 (Ongoing Peer Review in *Nature Communications*)
2. **del Valle, A. C.**, Yeh, C.-K., Huang, Y.-F., Adv. Healthcare Mater. 2020, 9, 2000864. (IF = 9.93, Q1, 23/103) (Selected as a Cover Page) *First Author*
3. **del Valle, A. C.**, Su C.-K., Sun Y.-C., Huang Y.-F., Biomater. Sci. 8 (7), 1934-1950. (IF=6.18, Q1, 6/38, 1) *First Author*
4. Chang Y.-C., **del Valle A. C.**, Yeh, H.-P., He, Y., Huang, Y.-F., Front Chem. 2019;6:647. (IF = 4.62, Q2, 57/177, 5).
5. Yeh, H.-P., **del Valle, A. C.**, Syu, M.-C., Qian, Y., Chang, Y.-C., Huang, Y.-F., ACS Appl. Mater. Interfaces 2018, 10(25) (IF = 9.22, Q1, 27/293, 15) *First Author*
6. Yue, H, **del Valle, A. C.**, Qian, Y., Huang, Y.-F., Nanoscale. 2017.9. 1559-1566. (IF = 7.315, Q1, 50/314, 18)