CURRICULUM VITAE

NAME:	Jessie LS. Au
CITIZENSHIP:	U.S.A.

EDUCATION

Institution	Degree	Year	Field
School of Pharmacy	Pharm.D.	1972	Clinical Pharmacy
University of California			
San Francisco, CA			
Dept. of Pharmaceutical Chemistry University of California San Francisco, CA	Ph.D.	1980	Pharmaceutics
Dept. of Experimental Therapeutics Roswell Park Memorial Institute Buffalo, NY	Postdoctoral Fellow	1979-1980	Biochemical Pharmacology

RESEARCH INTERESTS

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Development of effective treatments of solid tumors has been my career goal. Our group has thus far taken two of our discoveries through clinical evaluation (including a phase III study that yielded positive findings). My work is typically in the interface between diverse disciplines, with the goal of translating laboratory findings to survival-extending cancer treatments. My research goal for the next five years is to continue the development of several discoveries from my lab at Optimum Therapeutics, a biotech company I co-founded in 2003 and where I currently serve as Chief Scientific Officer. On a broader scale, my goal is to develop a new field of studies, Oncometrics, which I define as using computation and modeling to improve the success rate of clinical cancer drug development (currently at <7%).

EDUCATION OF NEXT-GENERATION PHARMACEUTICAL SCIENTISTS

My first academic position at the Ohio State University, where I trained 36 Ph.D. and 5 M.Sc. in pharmaceutical sciences, has led to my opinion that a new, cross-fertilization approach is needed to train drug development scientists who can translate the explosive growth in biomedical scientific knowledge into efficacious and cost-efficiently cancer treatments. This, in turn, requires bringing professors in diverse disciplines (biological, physical, computational sciences) to share the training of graduate students so that the future scientists will have the unique combination of expertise that has proven elusive thus far, in part due to the silo structures in academic programs. Hence, I took early retirement and left my tenured professor position in 2013 and became part-time, non-tenured professors at three different universities. This arrangement, albeit unorthodox, has provided the opportunity to pioneer this new educational approach. In September 2014, I initiated the first program at the University of Oklahoma Health Sciences Center, where we currently have nine predoctoral and three post-doctoral students (including a visiting student from Politecnico di Milano).

HONORS AND AWARDS

President Scholarship, 1971-1972; Edith Claypole-Joe Shoong Scholarship, 1976-1977; Patent Fund Award; NIH Predoctoral Fellow, 1977-1979, University of California San Francisco. Rho Chi National Graduate Scholarship, 1977-1978. Technology Transfer Award, International Union Against Cancer, 1981. New Investigator Research Award, NIH, 1982. Research Career Development Award, NIH, 1990. MERIT Award, NIH, 1992. University Distinguished Scholar Award, The Ohio State University, 1992. Dorothy M. Davis Chair of Cancer Research, The Ohio State University, 1992. Fellow, American Association of Pharmaceutical Scientists, 1992. Frank Duckworth Eminent Visiting Scholar, University of Florida, 1993. Joseph V. Swintosky Distinguished Lecturer, University of Kentucky, 1997. Distinguished University Professor, The Ohio State University, 1998. Fellow, American Association for the Advancement of Science, 1999. Distinguished Visiting Professor, National University of Singapore, 2000. Alumni Row, University of California San Francisco, 2000. Research Achievement Award in Pharmacokinetics, Pharmacodynamics and Drug Metabolism, American Association of Pharmaceutical Scientists, 2004. Semi-Finalist, Inaugural NIH Director's Pioneer Award Member, FDA Pharmaceutical Sciences and Clinical Pharmacology Advisory Board, 2006-2010, 2013-2016, 2016-2019 Co-founder & Co-Chair, Bladder Cancer Research Network (Co-chair with Dr. Seth Lerner of Baylor Medical University, consortium of 30+ academic/research urologic oncologists) Member, Scientific Advisory Board, Bladder Cancer Advocacy Network, 2006-present Member, NCI Bladder Cancer Task Force, 2010-present Member, The Cancer Genome Atlas (TCGA) Bladder Cancer Working Group, 2010-present Profiled as Distinguished Pharmaceutical Scientist (12th in the series of a total of 28 spanning 1987 through 2014), American Association of Pharmaceutical Sciences (about 10,000 members), 2008 Mosier Endowed Chair in Pharmaceutical Sciences, University of Oklahoma Health Sciences Center, 2014-present Distinguished Scholar in Pharmacy, Chinese University of Hong Kong, 2015.

Endowed Chair in Systems Pharmacology, Taipei Medical University, 2015.

MEMBERSHIP

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American Association of Cancer Research; American Association of Cancer Research Women in Cancer Research; American Association of Pharmaceutical Scientists; American Association for Advancement of Science

PROFESSIONAL EXPERIENCE

Clinical Pharmacist: Staff/Supervisor, Presbyterian Hospital of Pacific Medical Center, San Francisco, CA, 1972-1975; Volunteer pharmacist, Haight-Ashbury Free Medical Clinics, San Francisco, CA, 1977.

- Research Affiliate III, 1979-1980; Cancer Research Scientist I and II, Roswell Park Memorial Institute, Buffalo, NY, 1980-1983
- Assistant Professor, Division of Pharmaceutics and Pharmaceutical Chemistry, College of Pharmacy, The Ohio State University, 1983-1989
- Member, Cancer Pharmacology Program, Institute of Biomedical Sciences Academic Sinica, Taipei, Taiwan, 1988-1993.
- Associate Professor, Division of Pharmaceutics and Pharmaceutical Chemistry, College of pharmacy, The Ohio State University, 1989-1992.
- Acting Co-Director, Developmental Therapeutics Program, OSU Comprehensive Cancer Center, 1991-1992.
- Professor, Colleges of Pharmacy and Medicine, The Ohio State University, 1992.
- Co-Director, Head and Neck Oncology Program, OSU Comprehensive Cancer Center, 1992-1993.
- Co-Director, Urologic Oncology Program, OSU Comprehensive Cancer Center, 1992-1999.
- Director of Translational Research, OSU Comprehensive Cancer Center, 1993-1994.
- Deputy Director, OSU Comprehensive Cancer Center, 1994-1997.
- Dorothy M. Davis Chair in Cancer Research, The Ohio State University, 1992-2004.
- Member, OSU Comprehensive Cancer Center, 1983-2013.
- Distinguished University Professor, Colleges of Pharmacy, Medicine and Engineering, The Ohio State University, 1998-2013.
- Distinguished University Professor Emeritus, The Ohio State University, 2013-present.
- Adjunct Professor, Department of Surgery, Medical University of South Carolina, 2013-present.
- Adjunct Professor, Department of Pharmaceutical Sciences, University of Oklahoma, Oklahoma
 - City, OK, 2013-2014
- Research Professor & Mosier Endowed Chair, Department of Pharmaceutical Sciences, University of Oklahoma, Oklahoma City, OK, 2014-present
- Co-Founder (2003) and Chief Scientific Officer (2013-present), Optimum Therapeutics LLC
- Visiting Professor (since 2014) and Chair Professor in Systems Pharmacology (since 2016), Taipei Medical University, Taipei, Taiwan

Founding Director, Institute of Quantitative Systems Pharmacology, Carlsbad, CA, 2016.

ADMINISTRATIVE EXPERIENCE

Research administration:

- Experience in leading a relatively large research laboratory (40+ research personnel) and large-scale collaborative research projects in the U.S., Canada and Europe.
- As Chief Scientific Officer, responsible for working with US government funding agencies to establish and implement policies and procedures on ensuring research integrity

Academic administration:

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• Held various administration positions in the Ohio State University Comprehensive Cancer Center and appointments to university level committees including the budget restructuring committee (responsible for reviewing and making recommendations on revenue sources). As Deputy Director of the Comprehensive Cancer Center with 200+ members drawn from 11 colleges, I was responsible for the preparation and defense of the NCI Cancer Center Core Grant and its expenditure, and budgeting and expending discretionary funds from the Cancer Hospital, the assignment of cancer center space (26,000 nsf), and the strategic and programmatic planning. I also worked on initiatives to promote and leverage technology transfer as an alternative source of revenues to support cancer research.

• Developed the first-of-its-kind graduate program in drug development. This program involves shared teaching of Ph.D. students by two or more professors in one or more institutions so that the student acquires diverse research expertise (vs. students in traditional programs who are typically trained in a single laboratory).

PROFESSIONAL SERVICE (National and International)

- Participant in the International Cancer Research Technology Transfer Program sponsored by the International Union Against Cancer, 1982
- Reviewer for Cancer Research, Cancer Chemotherapy and Pharmacology, Analytical Biochemistry, Pharmaceutical Research, Journal of Pharmaceutical Sciences, In vitro, Journal of National Cancer Institute, Biopharmaceutics and Drug Disposition, Journal of Drug Targeting, Journal of Chromatography, Oncogene, Clinical Cancer Research, PharmSci, Journal of Controlled Release, Journal of Pharmacology and Experimental Therapeutics, Biochemical Pharmacology, Nature Biotechnology, Biomaterials, Journal of Controlled Release, AAPS J
- Member, NCI Program Project Grant Site Visit Team, 1983, 1992, 1993, 1998-2002, 2010
- Member, NIH Experimental Therapeutics II Study Section, 1987-1992; NIH Small Business Innovative Research Study Section, 1987-1990; NIH AIDS and Related Research Review Group, 1989; NIH Pediatric AIDS Clinical Trial Study Section, 1993; NIH Alternative Medicine Study Section, 1993; NIH Pharmacology Study Section, 1994-96; NIH Experimental Therapeutic II Study Section, 1997; NCI Manpower (Training Grants) Study Section, 1997; NCI Cancer Center Support Grant Review Committee, 1997, 1998, 2005; NIH Developmental Therapeutics Study Section, 2002-2005; NIH Biomaterials and Biointerfaces Study Section, since 2010; NCI Center of Cancer Nanotechnology Excellence, since 2010; Miscellaneous NCI/NIH Study Sections, 2007-present (see below for additional listing since 2009)
- Chair, Experimental Therapeutic II Special Study Section, 1996, 1997
- Member, U.S. Army Medical R & D Command Breast Cancer Research Program Review Group, 1994, 1997
- Member, Oncology Boundary Advisory Committee, NIH, 2001-2003 (responsible for realignment of oncology-related study sections which took place in 2003)
- Member, NCI Scientific Review Group Translational and Clinical Subcommittee D, 2001 2003. Member, Katholieke Universiteit Leuven, Research Grant Application Evaluation Committee, 2002;
- Reviewer, Research grants for Fonds zur Forderung, Der Weissenchaftsfonds. Austria, 2004
- Member, Arizona Disease Control Research Commission Review Panel, 1997-2002
- Ad hoc Member, Board of Scientific Counselors, National Center for Research Resources, Review of Biomedical Engineering and Instrumentation Program, 1996
- Chairperson, AAPS Annual Meeting Symposia, 1992, 2001

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- Member, Editorial Advisory Board, Pharmaceutical Research, 1990-mid 2000s
- Member, Editorial Advisory Board, AAPS Journal, 1998-mid 2000s
- Member, American Association of College of Pharmacy Graduate Affairs Committee, 1992 and 1993
- Chair (1993-1994) & Member (1994-1995), American Association of College of Pharmacy Paul Dawson Biotechnology Award Committee
- Member, American Association of Pharmaceutical Scientists: Task Force on Alternative Sources of Revenue, 1995-1996; Bylaw Committee, 1995-1997
- Member, NCI Strategy Planning Meeting on Intraperitoneal Cisplatin and Paclitaxel in ovarian

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Cancer, 1995

- External Reviewer of academic programs and faculty, University of Utah, University of Georgia, University of Michigan, University of Alabama, SUNY Stony Brook, University of Singapore, National Health Research Institute (Taiwan)
- Scientific Advisor, University of Pittsburgh Cancer Institute, 1997-1998; Roswell Park Cancer Institute, 1998-2001
- Member, American Association of Cancer Research Program Committee, 1997, 1998, 2001.
- Scientific Advisory Board, National Cancer Institute/Controlled Release Society International Symposium on Tumor Targeted Delivery Systems, 2000
- Member, NCI Gynecologic Oncology Group Retreat, May, 2000
- Member, NCI State of the Science Meeting on Lung Cancer, June, 2000
- Member, NCI State of the Science Meeting on Bladder Cancer, September, 2000
- Member, Scientific Program Committee, EORTC-NCI-AACR 2002 Symposium on Molecular Targets and Cancer Therapeutics, Frankfurt, Germany, 2002
- Chairperson, Electorate Nominating Committee, Pharmaceutical Sciences, American Association for the Advancement of Science (AAAS), 2001-2002
- Member-at-Large, AAAS Pharmaceutical Section, 2003–2006
- Member, Program Committee, Co-Chair on Symposium on Growth factor receptors and beyond. Second Pharmaceutical Sciences World Congress, Kyoto, Japan, 2004.
- Member and Co-Chair, External Advisory Committee, Oklahoma Biomedical Research Infrastructure Network (BRIN) Program IdeA Networks for Biomedical Research Excellence (INBRE), 2004-2019 (Co-Chair since 2014).
- Reviewer, Cancer Research UK, 2004, 2005
- Chair, AAPS PPDM Hot Topics Committee (FDA Critical Path), 2004, 2005
- Member, Scientific Advisory Board, Attenuon LLC, 2004-2009
- Review Committee, Science Foundation Ireland, 2006
- Member, Board of Consulting Editors, Pharmaceutical Research, 2006-2008
- Member, Program Committee; Convener, Symposium on Molecular Targeting in Cancer
- Chemotherapy, Third Pharmaceutical Sciences World Congress, Amsterdam, Netherlands, 2007 Member, Scientific Advisory Board, Ascent Biomedical Ventures 2004-2007
- Co-Chair, Bladder Cancer Research Network (Co-Chair with Seth Lerner of Baylor Medical
 - University, a newly formed group of 40+ academic/research urologic surgeons), 2007-present
- Member, Scientific Advisory Board & Management Committed, Bladder Cancer Advocacy Network, 2010-present
- Member, Bladder Cancer Think Tank Steering Committee, 2007-present
- Member, NCI Bladder Cancer Task Force, 2010-present
- Member, The Cancer Genome Atlas (TCGA) Bladder Cancer Working Group, 2010-present.
- Member, Editorial Board, Current Cancer Drug Targets, 2013-present
- Recent NIH/NCI review activities, since 2009

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- ZHD1-DSR-K-(09), Biological Testing Facility, February 9, 2009
- ZCA1-RTRB-2-(R1), February 24, 2009
- ZCA1-RTRB-2-(C1), NCI Small Business Innovation Research (SBIR) Program Topic 229 - Development of Molecular Pharmacodynamic Assays for Targeted Therapies, March 19, 2009
- ZCA1-RPRB-M-(F3), July 20, 2009
- ZCA1-RPRB-J-(09), NCI Grant Opportunity Clinical/Translational, August 5-6, 2009
- ZCA1-GRB-S-(M1), January 22, 2010
- BMBI Biomaterials and Biointerfaces. February 3-4. 2010

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