

CURRICULUM VITAE

Edward K.L. Chan, Ph.D.

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Websites:

Research Lab Website:

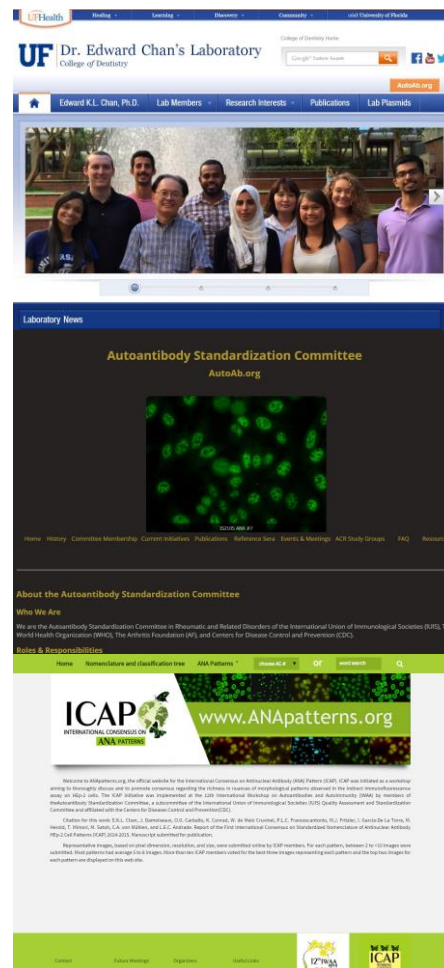
<http://edward-chan.dental.ufl.edu/>

Autoantibody Standardization

<http://www.AutoAb.org>

International Consensus on ANA Patterns

<http://www.ANAPatterns.org>



Education:

- 1976 B.Sc., Biochemistry, University of British Columbia, Vancouver, British Columbia, Canada
- 1979 M.Sc., Clinical Chemistry, University of Calgary, Calgary, Alberta, Canada.
Thesis title: Preparation of Intermolecular Covalent Linkages in Proteins using Bifunctional Reagents (Thesis Advisor: Dr. Nigel D. Boyd)
- 1984 Ph.D., Medical Science (Immunopathology), University of Calgary, Alberta, Canada. Thesis title: Mechanisms of Immune and Charged Protein Complex Deposition in Glomeruli (Thesis Advisor: Dr. Nigel D. Boyd)

Professional Training:

- 1984-9 Research Fellow/Associate, Laboratory of Dr. Eng M. Tan, Scripps Clinic and Research Foundation, La Jolla, California

Faculty Appointments:**The Scripps Research Institute (TSRI), La Jolla, California**

- 1990-6 Assistant Member/Professor, W.M. Keck Autoimmune Disease Center, Department of Molecular and Experimental Medicine
- 1991-2002 Director, DNA Core Laboratory for Structural Analysis, Department of Molecular and Experimental Medicine
- 1995-2001 Director, DNA Sequencing Core, Multipurpose Arthritis and Musculoskeletal Diseases Center at San Diego
- 1997-2002 Associate Professor, W.M. Keck Autoimmune Disease Center, Department of Molecular and Experimental Medicine
- 2001-2 Director, DNA Sequencing Core, Rheumatic Diseases Core Centers at San Diego

University of Florida (UF), Gainesville, Florida

- 2002- Tenured Professor, Department of Oral Biology
Member, UF Center for Orphaned Autoimmune Disorders
Graduate Faculty, Interdisciplinary Ph.D. Program in Biomedical Sciences.
Member in Immunology & Microbiology, Molecular Cell Biology, and Cancer Biology Advanced Concentrations
- 2004- Professor, Department of Anatomy and Cell Biology, College of Medicine
- 2012- Member, UF Center for Inflammation and Mucosal Immunology

Major Leadership Experiences and Accomplishments:

- 1991-2002 Director, DNA Core Laboratory for Structural Analysis, Department of Molecular and Experimental Medicine, Scripps Research Institute, La Jolla, California
- 1995-2001 Director, DNA Sequencing Core, Multipurpose Arthritis and Musculoskeletal Diseases Center at San Diego, La Jolla, California
- 1996 Co-Organizer, Autoantibodies in Autoimmunity and Cell Biology Symposium in honor of Dr. Eng M. Tan, San Diego, California

- 1996 Co-editor, Special issue of Molecular Biology Reports entitled "Autoantibodies in Autoimmunity and Cell Biology"
- 1999- Autoantibody Standardization Committee (www.AutoAb.org) in Rheumatic and Related Disorders of the International Union of Immunological Societies (IUIS), and Centers for Disease Control and Prevention (CDC); Vice Chairman, 2005-2010; Treasurer, 2010-2015; Chair, 2015-present
- 2001-2 Director, DNA Sequencing Core, Rheumatic Diseases Core Centers, San Diego, California
- 2004-17 Co-Chair, the 7th-13th Dresden Symposium on Autoantibodies, Dresden, Germany
- 2005 Chair, Oral Biology Department Faculty Search Committee
- 2005 Organizer, 9th International Workshop on Autoantibodies and Autoimmunity, Gainesville, Florida
- 2006- Study Group Coordinator: Autoantibodies in Diagnosis and Follow-up of Rheumatic Diseases, American College of Rheumatology Annual Scientific Meeting in Washington, DC (2006), Boston, MA (2007), San Francisco, CA (2008), Philadelphia, PA (2009), Atlanta, GA (2010), Chicago, IL (2011), Washington, DC (2012), San Diego, CA (2013), Boston, MA (2014), San Francisco, CA (2015, upgraded to Symposium), Washington, DC (2016), San Diego, CA (2017), Chicago, IL (2018)
- 2008-10 Chair, UF College Research Committee
- 2009-11 Chair, UF College Faculty Search Committee for "Jump-Start" hiring
- 2014-5 Co-editor, Special issue of Frontiers in Immunology entitled "Research Topic on 12th International Workshop on Autoantibodies and Autoimmunity (IWAA)"
- 2014- Co-organizer/coordinator, International Consensus on ANA Pattern (ICAP)
- 2015-6 Chair, UF College Faculty Search Committee for Cancer Research

Awards and Honors:

University of Calgary, Graduate Assistantship Award 1977-80

University of Calgary, Fee Scholarship Award 1980-3

Alberta Heritage Foundation for Medical Research, Studentship Award 1980-3

(Intramural) -Health Science Center level

Doctoral Mentoring Award for Graduate Students, UF Colleges of Medicine & Dentistry Interdisciplinary Program in Biomedical Sciences, 2009-10

Doctoral Mentoring Award for Graduate Students, UF Colleges of Medicine & Dentistry Interdisciplinary Program in Biomedical Sciences, 2012-3

University level

University of Florida Research Foundation (UFRF) Professorship, 2008-10

UF Senior Faculty Salary Plan Award, 2010

UF Open Access Awards for Editorial Service, 2012

UF Doctoral Dissertation Advisor/Mentoring Award for Graduate Students, 2012-3

UF-HHMI Science for Life Distinguished Mentor Award for Undergraduates, 2013

UFRF Professorship, 2013-5

University of Florida Term Professorship Award, 2017

Regional level

Alberta Heritage Foundation for Medical Research, Fellowship Award 1983-6

American College of Rheumatology, Western Region Rheumatology Fellows Award, Oakland, California, 1985

American College of Rheumatology, Western Region Rheumatology Fellows Award, Vancouver, British Columbia, Canada, 1986

National/international level

Canadian Association of Pathologists, Resident Travel Award, Vancouver, BC, Canada, 1982

Arthritis Foundation Travel Award, Molecular Biology Conference at NIH, Bethesda, MD, 1986

Arthritis Foundation Fellowship Award 1986-89

American College of Rheumatology, Senior Rheumatology Scholar Award, Washington, DC, 1987

Arthritis Foundation Investigator Award 1989-92

First Independent Research Support and Transition Award (R-29), National Institute of Arthritis and Musculoskeletal and Skin Diseases, NIH 1992

The Henry Kunkel Society, elected member 1995

Visiting Professorship, University of Brescia, Brescia, Italy 2010

International Federation of Clinical Chemistry and Laboratory Medicine-Abbott Visiting Lecturer, Montevideo, Uruguay 2013

Addgene's Blue Flame Award 2016

Highlights of Significant Scientific Contributions

- Identification and cloning of more than 20 novel autoantigens using human autoantibodies as unique probes, including SS-B/La, Ro52/TRIM21, hUBF/NOR-90, PM-Scl-75, p80-coilin, DFS75/LEDGF, golgin-97, golgin-160, golgin-245, p90/CIP2A, and GW182
- Discovery of functional markers for three novel subcellular structures:
 - 1990-91, p80-coilin for Coiled body (renamed Cajal body); the identification and cloning of p80-coilin provided a highly novel marker for the nuclear body; this has started a new field of investigation. To date, PubMed search with keyword “p80-coilin” shows 160+ publications
 - 2000-2, GW182 for GW body (a.k.a. mammalian processing bodies); the identification of GW182 as a marker for GW bodies (GWBs) has contributed significantly and PubMed search for “GW182” shows 120+ publications to date
 - 2006-present, autoantibody markers for cytoplasmic rods/rings; these are candidate markers for mammalian cells with high requirement for CTP/GTP biosynthesis
- Identification of the molecular interaction between GW182 and Ago2 thus linking GW bodies to microRNA function and the RNA interference pathway

Professional Society Memberships:

American College of Rheumatology since 1985

American Society for Cell Biology since 1989

Kunkel Society, 1995

American Association for Cancer Research, 2004

American Association for Dental Research, 2008

RNA Society, 2008

American Society for Biochemistry and Molecular Biology since 2009

International Endotoxin and Innate Immunity Society, 2010

Editorial Boards:

1991-2003 Molecular Biology Reports
1997-2002 Electronic Journal of Biotechnology
2009-11 Journal of Dental Research
2009-12 Autoimmune Diseases; Monitoring editor, 2010-2
2011-3 MicroRNA
1999-14 Arthritis Research and Therapy
2010- Frontiers Editorial Board, Review Editor of Frontiers in Non-Coding RNA
2012- American Journal of Clinical and Experimental Immunology, Founding Editorial Board member
2013- Journal of Autoimmunity
2017- Frontiers Editorial Board, Review Editor in Cytokines and Soluble Mediators in Immunity, part of the journal(s) Frontiers in Immunology
2017- Autoimmunity Reviews

Ad Hoc Reviewer for Scientific Journals

Publons profile - *peer review activity tracked by an independent site since August 2013:*
<https://publons.com/author/252728/edward-k-l-chan>

(Served 127 journals since 1990; short listing journals since July 1, 2017)

Annals of the Rheumatic Diseases
Clinical Oral Investigations
Current Opinion in Toxicology
Experimental Cell Research
Frontiers in Immunology
International Journal of Rheumatic Diseases
Journal of Autoimmunity
Journal of Cellular Biochemistry
Journal of Dental Research

Advisory Panels/Committees:**Grant Review Committees (Intramural):**

2006-10 College Research Committee, Chairman, 2008-10
2007 Member, American Cancer Society Institutional Research Grant Review Committee
2008-9 Member, UF Interdisciplinary Program in Biomedical Science (IDP) Mentoring Award Committee
2009 Member, Committee for the Bankhead-Coley Cancer Research Program
2010 Review Committee for Post-doctoral NIH T-32 Training Grant applications
2013,2017 Review panel for Research Opportunity Seed Fund competition - Basic Biomedical Sciences

Federal Grant Review Committees and Service:

Veterans Affairs, Medical Research Service Grant Review 1991, 1993, 2000, 2002
NIAMS, NIH, Study Section Member, General Medicine A-1/Arthritis, Connective Tissue and Skin Study Section (ACTS), 1995-9

NIH CSR Special Emphasis Panel ZRG1 SSSG 03, 1998
NSF Electronic Proposal Review, 2002
NIH CSR Special Emphasis Panel, 2002
NIH CSR Special Emphasis Panel, Dermatology and Rheumatoid Sciences, 2004
NIH CSR Immunology Special Study Section for SLE, 2005
NIH CSR Immunology Study Section, 2006
NIH CSR Special Emphasis Panel, Musculoskeletal, Oral and Skin Sciences Integrated Review Group, 2010
NIDCR, NIH, Ad hoc review panel, Intramural Research Program in the Molecular Physiology and Therapeutics Branch, Board of Scientific Counselors, 2011
NIH CSR Special Emphasis Panels, Musculoskeletal, Oral and Skin Sciences Integrated Review Group, June and Dec, 2012
NIAID, NIH, U.S.-India Bilateral Collaborative Research Grants on Human Immune Phenotyping and Infectious Disease Initiative, Human Immunology Project Consortium, 2012
Congressionally Directed Medical Research Program (CDMRP), Review Panel, Investigator Initiated Research Award and Technology/Therapeutic Development Award in lupus and rheumatoid arthritis research, 2013
NIAID, NIH, Review Panel, Autoimmunity Centers of Excellence, 2013
NIH CSR Special Emphasis Panel, Musculoskeletal, Oral and Skin Sciences, 2014
NIDCR, NIH, Ad hoc review panel, Intramural Research Program in the Molecular Physiology and Therapeutics Branch, Board of Scientific Counselors, 2017

Non-Federal Grant Review Committees and Service:

Arthritis Society of Canada, Medical and Scientific Programs, 1990, 1993-4, 1998, 2000
Wellcome Trust, London; Infection and Immunity program, 1992; Molecular & Physiological Sciences, 2009
Medical Research Council of Canada, 1993, 97-00
Research Council of Canada, Natural Sciences and Engineering, 1995-6
Arthritis Foundation, Study Section Member, Molecular Biology and Genetics Study Section, 1999-2001
West Virginia University, Reviewer for the Office of Sponsored Programs, 2000
Netherlands Organization for Scientific Research, Council for Chemical Sciences, 2003
United States-Israel Binational Science Foundation, 2008
Singapore Agency for Science, Technology and Research Biomedical Research Council, 2008
Austrian Science Fund, Biology and Medicine, 2008, 2014
Alberta Heritage Foundation for Medical Research Investigator Award, 2008
French National Research Agency, the Integrated Mechanisms of Inflammation program, 2010, 2012
Health Research Board, Dublin, Ireland, Clinical and Biomedical Research Unit, 2010, 2011
Israel Science Foundation 2011
Lupus Foundation of America, Grant Review Committee, 2012, 2015
Netherlands Organization for Scientific Research, Council for Chemical Sciences, The Hague, 2013
Qatar National Research Foundation, State of Qatar, National Priorities Research Program, 2013, 2014
Prinses Beatrix Spierfonds, The Hague, The Netherlands, 2015
Molecular and Cellular Medicine Board, Medical Research Council, UK, 2015
Lupus Research Institute, Grant Review Committee, 2010-6
French National research Agency, Panel CE11 Biochemistry, biophysics, molecular and

structural biology, 2017

Committees and Professional Appointments (National):

- 1998 Consultant, INOVA Diagnostics, Inc., San Diego, CA
- 2000 Consultant, Autoimmune Advisory Board, Bio-Rad Laboratories, Clinical Systems Division, Clinical Diagnostics, Hercules, CA
- 2000 Consultant, INOVA Diagnostics, Inc., San Diego, CA
- 2001- American College of Rheumatology nomination to Arthritis and Musculoskeletal and Skin Diseases (NIAMS) Scientific Reviewer Pool
- 2006-10 Study Group co-Coordinator (together with Dr. Angela Tincani, Brescia, Italy). Title of Study Group: Autoantibodies in Diagnosis and Follow-up of Rheumatic Diseases, American College of Rheumatology Annual Scientific Meeting in Washington, DC (2006), Boston, MA (2007), San Francisco, CA (2008), Philadelphia, PA (2009), and Atlanta, GA (2010)
- 2007 NIDCR/NIH Peer Review Scientific Liaison, the Peer Review Working Group of the Advisory Committee to the NIH Director
- 2010-6 Study Group co-Coordinator (together with Dr. Luis E.C. Andrade, Sao Paulo, Brazil). Title of Study Group: Autoantibodies and related biomarkers as an approach to personalized medicine, American College of Rheumatology Annual Scientific Meeting in Chicago, IL (2011), Washington, DC (2012), San Diego, CA (2013), Boston, MA (2014), San Francisco, CA (2015, upgraded to Symposium), and Washington, DC (2016)
- 2016- Study Group co-Coordinator (together with Dr. Minoru Satoh, Fukuoka, Japan). Title of Study Group: Autoantibodies in Diagnosis and Follow up of Rheumatic Diseases, American College of Rheumatology Annual Scientific Meeting in San Diego, CA (2017), Chicago, IL (2018)

Committees and Professional Appointments (International):

- 1996 Consultant and External Reviewer for the University Core DNA Services facility at the University of Calgary, Calgary, Alberta, Canada
- 1996 Co-editor, Special issue of Molecular Biology Reports entitled "Autoantibodies in Autoimmunity and Cell Biology"
- 1999-date Autoantibody Standardization Committee in Rheumatic and Related Disorders of the International Union of Immunological Societies (IUIS), the World Health Organization (WHO), the Arthritis Foundation (AF), and Centers for Disease Control and Prevention (CDC); Vice Chairman, 2005-2010; Treasurer, 2010-2013; Chair, 2015-8
- 2010-3 Member, Harmonisation of Autoimmune Testing (HAT) joint work group of the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) and Institute of Reference Materials and Methods (IRMM), Geel, Belgium (Chair, Joanna Sheldon)
- 2016- Member, Scientific Experts Panel in diagnostic of autoimmune diseases, Grifols, S.A., Barcelona, Spain
- 2016 Consultant, Sygnature Discovery Limited (Sygnature), Nottingham, UK
- 2016 Consultant, the Immunology Research and Development Center, China Medical University, Taichung, Taiwan

Scientific Meetings/Symposia (National and International):***Meetings - Organized:***

- 1996 Co-Organizer, Autoantibodies in Autoimmunity and Cell Biology Symposium in honor of Dr. Eng M. Tan's 70th birthday, San Diego, California
- 2005 Organizer, 9th International Workshop on Autoantibodies and Autoimmunity, Gainesville, Florida

Meetings - Co-Chair:

- 2004-19 Co-Chair, the 7th to 13th Dresden Symposium on Autoantibodies, Dresden, Germany

Meetings - Member of Advisory Board:

- 2002 International Advisory Board, 6th Dresden Symposium on Autoantibodies, Dresden, Germany
- 2003 International Advisory Board, 8th International Workshop on Autoantibodies and Autoimmunity, Berlin, Germany
- 2008 International Advisory Board, 10th International Workshop on Autoantibodies and Autoimmunity, Guadalajara, Jalisco, México
- 2008-14 International Organizing Committee for 6th - 9th International Congress on Autoimmunity, Porto, Portugal; Ljubljana, Slovenia; Granada, Spain; Nice, France, respectively
- 2009 Scientific Committee for the Winter Courmayeur Meeting of Proteins and Autoimmunity: From Proteins to Autoantibodies: The Lesson for Standardization, Courmayeur – Valle d'Aosta, Italy
- 2010-1 Steering Committee, 11th International Workshop on Autoantibodies and Autoimmunity, Shanghai, China, April 8-10, 2011
- 2012-4 Steering Committee, 12th International Workshop on Autoantibodies and Autoimmunity, Sao Paulo, Brazil, August, 2014
- 2014-6 Member, International Organizing Committee for 10th International Congress on Autoimmunity, Leipzig, Germany, April 6-10, 2016
- 2015-6 Organizing Committee, 13th International Workshop on Autoantibodies and Autoimmunity, Kyoto, Japan, October 11-13, 2016

Meetings - Abstract Selection Committee, Session Chair/Moderator (last 5 years):

- 2012 Session Co-chair, "Diagnostic Dilemmas in Gastroenterology," the 8th International Congress on Autoimmunity, Granada, Spain
- 2013 Co-chair, Abstract Selection Subcommittee for the section entitled "Innate Immunity and Rheumatic Disease", Annual Scientific Meeting of the American College of Rheumatology (Chair: Susan A. Boackle)
- 2013 Session Co-chair, "Pathogenesis of autoimmune diseases – Novel aspects" and "Paraneoplastic and tumor associated autoantibodies," the 11th Dresden Symposium on Autoantibodies, Dresden, Germany
- 2013 Session Co-chair, Research Topics, UF Center for Inflammation and Mucosal Immunology Research Retreat, Gainesville, FL
- 2015 Session Co-chair, 2nd ICAP Workshop, and "Hot Topics in Autoimmunity II," the 12th Dresden Symposium on Autoantibodies, Dresden, Germany
- 2016 Session Chair, ANA diagnostics and immunofluorescence, the 10th International Congress on Autoimmunity, Leipzig, Germany
- 2016 Session Chair, IWAA 2016 Kyoto, Japan

National and International Invited Presentations (last 5 years):

- 2013 “Lack of precision in ANA reports” Mexican College of Rheumatology, Puebla, Mexico
- 2013 “Target of autoantibody in HCV patients during interferon/ribavirin therapy” the 10th Dresden Symposium on Autoantibodies, "Infection, Tumors and Autoimmunity," Dresden, Germany
- 2013 “Advances in autoimmunity: from autoantibody standardization to dominant microRNA in innate immune responses” Division of Rheumatology and Clinical Immunology, Humanitas Clinical and Research Center, Milan, Italy
- 2013 “Dominant microRNAs in innate immune responses” Novel Therapeutic Targets Conference, Trinity College, Oxford, UK
- 2013 “Rod/ring structures as target of autoimmune response in hepatitis C patients during interferon/ribavirin therapy” MRC Functional Genomics Unit, Department of Physiology, Anatomy and Genetics, Oxford University, Oxford, UK
- 2013 “MicroRNA 146a in autoimmunity and innate immune responses” American College of Rheumatology (ACR) Basic Research Conference on Beyond Germline Genetics: New Perspectives on Rheumatic Disease Predisposition. ACR annual meeting, San Diego, CA
- 2013 “Autoantibody standardization – Recent advances and challenges” and “Molecular targets of autoantibodies in HCV patients during IFN/ribavirin therapy” Brazilian Society for Autoimmunity, Sao Paulo, Brazil
- 2013 “Molecular target of autoantibody in HCV patients during interferon/ribavirin therapy” and “Autoantibody standardization – Recent advances and challenges” International Federation of Clinical Chemistry and Laboratory Medicine (IFCC)-Abbott Visiting Lecturer, IX Uruguayan National Clinical Biochemistry Meeting, Montevideo, Uruguay
- 2013 “Autoantibody standardization – Recent Advances and Challenges” Keynote Speaker, Taiwan Rheumatology Association Annual Meeting, Hsin-Chu city, Taiwan
- 2014 “MicroRNAs in innate immune responses and autoimmune diseases” 9th International Congress on Autoimmunity, Nice, France
- 2014 “Cytoplasmic patterns” at the ICAP workshop, “Peculiarities of the analyte Autoantibody” at the Autoantibody Standardization Workshop, “Autoantibodies and the microRNA world” and “Rods and rings: a human model of autoantibody generation” at the 12th International Workshop on Autoantibodies and Autoimmunity, Sao Paulo, Brazil
- 2014 “Metabolic influence on the assembly of rod/ring structures,” Special Interest Subgroup Meeting on “Compartmentation and Filamentation of Metabolic Pathways,” at the 2014 American Society for Cell Biology/International Federation for Cell Biology Meeting, Philadelphia, PA
- 2015 “Autoantibodies to rods/rings induction in monitoring HCV therapy” 12th Dresden Symposium on Autoantibodies, "From Autoantibody Research to Standardized Diagnostic Assays in the Management of Autoimmune Diseases," Dresden, Germany
- 2015 “Oral cancer and microRNAs,” Oral Health seminar series, Department of Oral Health Sciences, Medical University of South Carolina, Charleston, SC
- 2015 “One-carbon metabolism on IMPDH assembly into rod/ring structures,” Special Interest Subgroup Meeting on “Polymerizing enzymes: new frontiers in protein compartmentalization and localization,” at the 2015 American Society for Cell Biology Meeting, San Diego, CA

- 2016 “The international consensus on standardized nomenclature of antinuclear antibody HEp-2 cell patterns initiative - current status and initiatives” 10th International Congress on Autoimmunity, Leipzig, Germany
- 2016 “Dominant microRNAs in innate immunity” ViCTER conference at the Scripps Research Institute, La Jolla, CA, August 19
- 2016 “Dominant microRNAs in innate immune response and autoimmunity” Department of Biomedical Sciences, The City University of Hong Kong, Hong Kong
- 2016 “The international consensus on standardized nomenclature of antinuclear antibody HEp-2 cell patterns initiative - current status” Department of Pathology, University of Hong Kong, Hong Kong
- 2016 “3rd ICAP Report - The challenge and importance of international standardization of ANA testing” IWAA 2016, Kyoto, Japan, Oct 11-13
- 2016 “International Consensus on ANA Patterns: Current status” American College of Rheumatology Annual Scientific meeting, Washington, DC
- 2016 “Intracellular rod/ring structures regulated by the one-carbon metabolic pathway” Department of Chemistry and Biochemistry at the University of Maryland, Baltimore County, Baltimore, Maryland, Nov 18
- 2016 “Subcellular rods/rings as targets of autoantibodies in HCV therapy” and “Harmonization in autoimmune diagnostics (panel discussion)” the 11th International Menarini Diagnostics Symposium on Autoimmunity, Athens, Greece, Nov 24-25
- 2017 “Assembly of intracellular rod/ring structures regulated by the one-carbon metabolic pathway” 2017 Giuseppe Molinaro Memorial Lecture, School of Medicine, Loma Linda University, Loma Linda, California, Feb 23
- 2017 “Future of ANA patterns: Current status of standardization and new autoantibodies with clinical significance” EXPERTS PANEL ON AUTOINMUNITY, Museu Grifols, Barcelona, April 24
- 2017 “Proposed ICAP refinements - how to move forward” 13th Dresden Symposium on Autoantibodies, Dresden, Germany, September 26-30
- 2017 Multiple lectures, Hong Kong Anti-Nuclear Antibody meeting, Dec 8
- 2018 “The international consensus on standardized nomenclature of antinuclear antibody HEp-2 cell patterns (ICAP) initiative - Establishment of an Interpretative Clinical Description for Each Pattern” and “Advances in the immunobiology of rod/ring autoantigenic structures” 11th International Congress on Autoimmunity, Lisbon, Portugal, May 16-20
- 2018 “IMP dehydrogenase forms filaments during T cell activation ex vivo and in vivo” the joint 26th International Conference on Arginine and Pyrimidines and the 1st International Conference on Amino Acids and Nucleotides, ShanghaiTech University, Shanghai, China, July 4-7
- 2018 “Developing Consensus on Antinuclear Antibody Indirect Fluorescence Pattern Interpretation and Reporting” Session Title: Developing Standards in Antinuclear Antibody Indirect Immunofluorescence (ANA IFA) Interpretation and Reporting” Speaker for the 2018 American Association for Clinical Chemistry Annual Meeting, Chicago, IL, July 28-29

Peer-Reviewed Publications:**SUMMARY** (March 2018)Number of Peer-Reviewed Papers: **218**

Number of Reviews, Editorials, Opinions, and Letters: **38**

Number of Book Chapters and Symposium Proceedings: **56**

Number of Books Edited: **7**

Number of Abstracts: **351**

[NCBI PubMed My Bibliography](#)

[Google Scholar Bibliography](#) ("Edward K.L. Chan"):

Citation indices	All	Since 2013
Citations	19,678	7,044
h-index	76	44
i10-index	218	145

1. **Chan, E.K.L.** and Boyd, N.D. (1980) Preparation of covalently linked immune complexes of specific composition. *J. Immunol. Methods* 33:55-61.
2. Francoeur, A.M., **Chan, E.K.L.**, Garrels, J.I., and Mathews, M.B. (1985) Characterization and purification of the lupus antigen, La. *Mol. Cell. Biol.* 5:586-90.
3. **Chan, E.K.L.**, Boyd, N.D., Alexander, F., Barabas, A.Z., and Lannigan, R. (1986) The effect of cationic proteins on the glomerular deposition of anionic proteins and immune complexes. *Nephron* 43:93-104.
4. **Chan, E.K.L.**, Francoeur, A.M., and Tan, E.M. (1986) Epitopes, structural domains and asymmetry of amino acid residues in SS-B/La nuclear protein. *J. Immunol.* 136:3744-9.
5. Hamelin, R., **Chan, E.K.L.**, Tan, E.M., and Arlinghaus, R.B. (1986) Antibodies against small nuclear ribonucleoproteins immunoprecipitate complexes containing ts110 Moloney murine sarcoma virus genomic and messenger RNAs. *Virology* 152:87-99.
6. Rubin, R.L., Tang, F.-L., **Chan, E.K.L.**, Pollard, K.M., Tsay, G.J., and Tan, E.M. (1986) IgG subclasses of autoantibodies in systemic lupus erythematosus, Sjögren's syndrome and drug-induced autoimmunity. *J. Immunol.* 137:2528-34.
7. **Chan, E.K.L.** and Tan, E.M. (1986) Epitopes and structural domains of a RNA- binding nuclear protein, SS-B/La: Similarities with adenovirus DNA- binding protein. *Scand. J. Rheumatol.* 61:102-5.
8. Tsay, G.J., **Chan, E.K.L.**, Peebles, C.L., Pollard, K.M., and Tan, E.M. (1987) An immunoassay differentiating sera with antibodies to Sm alone, antibodies to Sm/RNP complex, and antibodies to RNP alone. *Arthritis Rheum.* 30:389-96.
9. **Chan, E.K.L.** and Tan, E.M. (1987) The small nuclear ribonucleoprotein SS-B/La binds RNA with a conserved protease-resistant domain of 28 KD. *Mol. Cell. Biol.* 7:2588-91.
10. Pollard, K.M., **Chan, E.K.L.**, Rubin, R.L., and Tan, E.M. (1987) Monoclonal autoantibodies to nuclear antigens from murine graft-versus-host disease. *Clin. Immunol. Immunopathol.* 44:31-40.
11. **Chan, E.K.L.** and Tan, E.M. (1987) Human autoantibody-reactive epitopes of SS-B/La are highly conserved in comparison with epitopes recognized by murine monoclonal antibodies. *J. Exp. Med.* 166:1627-40.
12. Ben-Chetrit, E., **Chan, E.K.L.**, Sullivan, K.F., and Tan, E.M. (1988) A 52 kD protein is a novel component of the SS-A/Ro antigenic particle. *J. Exp. Med.* 167:1560-71.
13. Fox, R.I., **Chan, E.K.L.**, Benton, L., Fong, S., Friedlander, M., and Howell, F.V. (1988)

- Treatment of primary Sjögren's syndrome with hydroxychloroquine. *Am. J. Med.* 85:62-7.
14. **Chan, E.K.L.**, Sullivan, K.F., Fox, R.I., and Tan, E.M. (1989) Sjögren's syndrome nuclear antigen B (La): cDNA cloning, structural domains, and autoepitopes. *J. Autoimmunity* 2:321-7.
 15. **Chan, E.K.L.**, Sullivan, K.F., and Tan, E.M. (1989) Ribonucleoprotein SS-B/La belongs to a protein family with consensus sequences for RNA-binding. *Nucleic Acids Res.* 17:2233-44.
 16. Pollard, K.M., **Chan, E.K.L.**, Grant, B.J., Sullivan, K.F., Tan, E.M., and Glass, C.A. (1990) *In vitro* post-translational modification of lamin B cloned from a human T-cell line. *Mol. Cell Biol.* 10:2164-75.
 17. Buyon, J.P., Slade, S.G., **Chan, E.K.L.**, Tan, E.M., and Winchester, R. (1990) Effective separation of the 52kD SS-A/Ro polypeptide from the 48kD SS-B/La polypeptide by altering conditions of polyacrylamide gel electrophoresis. *J. Immunol. Methods* 129:207-10.
 18. Raska, I., Ochs, R.L., Andrade, L.E.C., **Chan, E.K.L.**, Burlingame, R., Peebles, C., Groul, D., and Tan, E.M. (1990) Association between the nucleolus and the coiled body. *J. Structural Biol.* 104:120-7.
 19. **Chan, E.K.L.**, Hamel, J.C., Buyon, J.P., and Tan, E.M. (1991) Molecular definition and sequence motifs of the 52-kD component of human SS-A/Ro autoantigen. *J. Clin. Invest.* 87:68-76.
 20. Alderuccio, F., **Chan, E.K.L.**, and Tan, E.M. (1991) Molecular characterization of an autoantigen of PM-Scl in the polymyositis/scleroderma overlap syndrome: A unique and complete human cDNA encoding an apparent 75-kD acidic protein of the nucleolar complex. *J. Exp. Med.* 173:941-52.
 21. Andrade, L.E.C., **Chan, E.K.L.**, Raska, I., Peebles, C.L., Roos, G., and Tan, E.M. (1991) Human autoantibody to a novel protein of the nuclear coiled body. Immunological characterization and cDNA cloning of p80-coilin. *J. Exp. Med.* 173:1407-19.
 22. Raska, I., Andrade, L.E.C., Ochs, R.L., **Chan, E.K.L.**, Chang, C.-M., Roos, G., and Tan, E.M. (1991) Immunological and ultrastructural studies of the nuclear coiled body with autoimmune antibodies. *Exp. Cell Res.* 195:27-37.
 23. **Chan, E.K.L.**, Imai, H., Hamel, J.C., and Tan, E.M. (1991) Human autoantibody to RNA polymerase I transcription factor hUBF. Molecular identity of nucleolus organizer region autoantigen NOR-90 and ribosomal RNA transcription upstream binding factor. *J. Exp. Med.* 174:1239-44.
 24. Fox, R.I., **Chan, E.K.L.**, and Kang, H.I. (1992) Laboratory evaluation of patients with Sjögren's syndrome. *Clin. Biochem.* 25:213-22.
 25. Andrade, L.E.C., Tan, E.M., and **Chan, E.K.L.** (1993) Immunocytochemical analysis of the coiled body in the cell cycle and during cell proliferation. *Proc. Natl. Acad. Sci. USA* 90:1947-51.
 26. Fritzler, M.J., Hamel, J.C., Ochs, R.L., and **Chan, E.K.L.** (1993) Molecular characterization of two human autoantigens: Unique cDNAs encoding 95-kD and 160-kD proteins of a putative family in the Golgi complex. *J. Exp. Med.* 178:49-62.
 27. Meerovitch, K., Svitkin, Y.V., Lee, H.S., Kenan, D.J., **Chan, E.K.L.**, Agol, V.I., Keene, J.D., and Sonenberg, N. (1993) La autoantigen enhances and corrects aberrant translation of Poliovirus RNA in reticulocyte lysate. *J. Virol.* 67:3798-807.
 28. Kang, H.-I., Fei, H.M., Saito, I., Sawada, S., Chen, S.-L., Yi, D., **Chan, E.K.L.**, Peebles, C.,

- Bugawan, T.L., Erlich, H.A., and Fox, R.I. (1993) Comparison of HLA-class II genes in Caucosoid, Chinese and Japanese patients with primary Sjögren's syndrome. *J. Immunol.* 150:3615-23.
29. Humphreys-Beher, M.G., Brinkley, L., Purushotham, K.R., Wang, P., Nakagawa, Y., Dusek, D., Kerr, M., Chegini, N., and **Chan, E.K.L.** (1993) Characterization of antinuclear autoantibodies present in the serum from non-obese diabetic (NOD) mice. *Clin. Immunol. Immunopathol.* 68:350-6.
30. Julkunen, H., Kurki, P., Kaaja, R., Heikkilä, R., Immonen, I., **Chan, E.K.L.**, Wallgren, E., and Friman, C. (1993) Isolated congenital heart block: Long-term outcome of mothers and characterization of the immune response to SS-A/Ro and to SS-B/La. *Arthritis Rheum.* 36:1588-98.
31. Imai, H., **Chan, E.K.L.**, Kiyosawa, K., Fu, X.-D., and Tan, E.M. (1993) Novel nuclear autoantigen with splicing factor motifs identified with antibody from hepatocellular carcinoma. *J. Clin. Invest.* 92:2419-26.
32. Buyon, J.P., Slade, S.G., Reveille, J.D., Hamel, J.C., and **Chan, E.K.L.** (1994) Autoantibody responses to the "native" 52-kDa SS-A/Ro protein in neonatal lupus syndromes, systemic lupus erythematosus and Sjögren's syndrome. *J. Immunol.* 152:3675-84.
33. Malatesta, M., Zancanaro, C., Martin, T.E., **Chan, E.K.L.**, Amalric, F., Lührmann, R., Vogel, P., and Fakan, S. (1994) Is the coiled body involved in nucleolar functions? *Exp. Cell Res.* 211:415-9.
34. Imai, H., Fritzler, M.J., Neri, R., Bombardieri, S., Tan, E.M., and **Chan, E.K.L.** (1994) Immunocytochemical characterization of human NOR-90 (Upstream binding factor) and associated antigens reactive with autoimmune sera. *Mol. Biol. Reports* 19:115-24.
35. **Chan, E.K.L.**, Tan, E.M., Ward, D.C., and Matera, A.G. (1994) Human 60-kDa SS-A/Ro ribonucleoprotein autoantigen gene (SSA2) localized to 1q31 by fluorescence *in situ* hybridization. *Genomics* 23:298-300.
36. Buyon, J.P., Waltuck, J., Caldwell, K., Crawford, B., Slade, S.G., Copel, J., and **Chan, E.K.L.** (1994) Relationship between maternal and neonatal levels of antibodies to 48kDa SS-B(La), 52kDa SS-A(Ro), and 60kDa SS-A(Ro) in pregnancies complicated by congenital heart block. *J. Rheumatol.* 21:1943-50.
37. **Chan, E.K.L.**, Takano, S., Andrade, L.E.C., Hamel, J.C., and Matera, A.G. (1994) Structure, expression and chromosomal localization of human p80-coilin gene. *Nucleic Acids Res.* 22: 4462-9.
38. **Chan, E.K.L.**, Takano, S., and von Mühlen, C.A. (1994) A microscale method for depleting crossreactive anti-antibodies used in indirect immunofluorescence microscopy. *J. Immunol. Methods* 176:271-3.
39. Malatesta, M., Zancanaro, C., Martin, T.E., **Chan, E.K.L.**, Amalric, F., Lührmann, R., Vogel, P., and Fakan, S. (1994) Cytochemical and immunocytochemical characterization of nuclear bodies during hibernation. *Eur. J. Cell Biol.* 65:82-93.
40. Muro, Y., **Chan, E.K.L.**, Landberg, G., and Tan, E.M. (1995) A cell-cycle nuclear autoantigen containing WD-40 motifs expressed mainly in S and G₂ phase cells. *Biochem. Biophys. Res. Comm.* 207:1029-37.
41. von Mühlen, C.A., **Chan, E.K.L.**, Peebles, C.L., Imai, H., Kiyosawa, K., and Tan, E.M. (1995) Non-muscle myosin as target antigen for human autoantibodies in patients with hepatitis C virus-associated chronic liver diseases. *Clin. Exp. Immunol.* 100:67-73.

42. Puvion-Dutilleul, F., Besse, S., **Chan, E.K.L.**, Tan, E.M., and Puvion, E. (1995) p80-coilin: a component of coiled bodies and interchromatin granule-associated zones. *J. Cell Sci.* 108:1143-53.
43. Ochs, R.L., Stein, T.W. Jr., Andrade, L.E.C., Gallo, D., **Chan, E.K.L.**, Tan, E.M., and Brasch, K. (1995) Formation of nuclear bodies in hepatocytes of estrogen-treated roosters. *Mol. Biol. Cell* 6:345-56.
44. **Chan, E.K.L.**, Di Donato, F., Hamel, J.C., Tseng, C.-E., and Buyon, J.P. (1995) 52-kD SS-A/Ro: genomic structure and identification of an alternatively spliced transcript encoding a novel leucine zipper-minus autoantigen expressed in fetal and adult heart. *J. Exp. Med.* 182:983-92.
45. Fritzler, M.J., Lung, C.C., Hamel, J.C., Griffith, K., and **Chan, E.K.L.** (1995) Molecular characterization of golgin-245: a novel Golgi complex protein containing a granin signature. *J. Biol. Chem.* 270:31262-8.
46. Covini, G., **Chan, E.K.L.**, Colombo, M., and Tan, E.M. (1996) Comparison of protocols for depleting anti-E. coli antibodies in immunoblotting of recombinant antigens. *J. Immunol. Methods* 190:143-5.
47. Tseng, C.-E., Caldwell, K., Feit, S., **Chan, E.K.L.**, and Buyon, J.P. (1996) Subclass distribution of maternal and neonatal anti-SS-A/Ro and SS-B/La antibodies in congenital heart block. *J. Rheumatol.* 23:925-32.
48. Ochs, R.L., Stein, T.W., Jr., **Chan, E.K.L.**, Ruutu, M., and Tan, E.M. (1996) cDNA cloning and characterization of a novel nucleolar protein. *Mol. Biol. Cell* 7:1015-24.
49. Lung, C.C., **Chan, E.K.L.**, and Zuraw, B.L. (1996) Exon 1 sequence of the human B2 bradykinin receptor gene and its transcript. *Immunopharmacol.* 33:90-2.
50. Lung, C.C. and **Chan, E.K.L.** (1996) Simplifying 5' RACE in the hunt for full-length cDNAs. *Trends Genetics* 12:389-91.
51. Wang, D. and **Chan, E.K.L.** (1996) 17- β -estradiol increases expression of the 52 and 60-kD SS-A/Ro autoantigens in human keratinocytes and breast cancer cell line MCF-7. *J. Invest. Dermatol.* 107:610-4.
52. Andrade, L.E.C., **Chan, E.K.L.**, Peebles, C.L., and Tan, E.M. (1996) Two major autoantigen-autoantibody systems of the mitotic spindle apparatus. *Arthritis Rheum.* 39:1643-53.
53. Wang, D., Buyon, J.P., and **Chan, E.K.L.** (1996) Cloning and expression of mouse 60-kDa ribonucleoprotein SS-A/Ro. *Mol. Biol. Reports* 23:205-10.
54. Lung, C.C., **Chan, E.K.L.**, and Zuraw, B.L. (1997) Analysis of an exon 1 polymorphism of the B2 bradykinin receptor gene and its transcript in normal subjects and patients with C1 inhibitor deficient. *J. Allerg. Clin. Immunol.* 99:134-46.
55. Covini, G., **Chan, E.K.L.**, Nishioka, M., Ahmed Morshed, S., Reed, S.I., and Tan, E.M. (1997) Immune response to cyclin B1 in hepatocellular carcinoma. *Hepatology* 25:75-80.
56. Matera, A.G., Wu, W., Imai, H., O'Keefe, C.L., and **Chan, E.K.L.** (1997) Molecular cloning of the RNA Polymerase I transcription factor hUBF/NOR-90 (*UBTF*) gene and localization to 17q21.3 by fluorescence in situ hybridization and radiation hybrid mapping. *Genomics* 41:135-8.
57. Buyon, J.P., Tseng, C.-E., Di Donato, F., Rashbaum, W., Morris, A., and **Chan, E.K.L.** (1997) Cardiac expression of 52 β , an alternative transcript of the congenital heart block-associated 52-kD SS-A/Ro autoantigen, is maximal during fetal development. *Arthritis Rheum.* 40:655-

- 60.
58. Tseng, C., **Chan, E.K.L.**, Miranda, E., Gross, M., Di Donato, F., and Buyon, J.P. (1997) The 52kD protein as a target of intermolecular spreading of the immune response to components of the SS-A/Ro-SS-B/La complex. *Arthritis Rheum.* 40:936-44.
59. Covini, G., von Mühlen, C.A., Pacchetti, S., Colombo, M., **Chan, E.K.L.**, and Tan, E.M. (1997) Diversity of antinuclear antibody responses in hepatocellular carcinoma. *J. Hepatol.* 26:1255-65.
60. Furuta, K., **Chan, E.K.L.**, Kiyosawa, K., Reimer, G., Luderschmidt, C., and Tan, E.M. (1997) Heterochromatin protein HP1^{Hsβ} (p25β) and its localization with centromere in mitosis. *Chromosoma* 106:11-9.
61. Griffith, K.J., **Chan, E.K.L.**, Lung, C.C., Hamel, J.C., Guo, X.Y., Miyachi, K., and Fritzler, M.J. (1997) Molecular cloning of a novel 97 kDa Golgi complex autoantigen associated with Sjögren's syndrome. *Arthritis Rheum.* 40:1693-702.
62. Furuta, K., Matsuoka, S., Hildebrandt, B., Kiyosawa, K., Reimer, G., Luderschmidt, C., **Chan, E.K.L.**, and Tan, E.M. (1998) Immunologic characterization of heterochromatin protein p25β autoantibodies and relationship with centromere autoantibodies and pulmonary fibrosis in systemic scleroderma. *J. Mol. Med.* 76:54-60.
63. Hassfeld, W.G., **Chan, E.K.L.**, Mathison, D.A., Portman, D., Dreyfuss, G., Steiner, G., and Tan, E.M. (1998) Molecular definition of heterogeneous nuclear ribonucleoprotein R (hnRNP-R) using autoimmune autoantibody: immunological relationship with hnRNP-P. *Nucleic Acids Res.* 26:439-45.
64. Seo, B.B., Kitajima-Ihara, T., **Chan, E.K.L.**, Scheffler, I.E., Matsuno-Yagi, A., and Yagi, T. (1998) Molecular Remedy of Complex I Defects: Rotenone-insensitive internal NADH-quinone oxidoreductase of *Saccharomyces cerevisiae* mitochondria restores the NADH oxidase activity of complex I-deficient mammalian cells. *Proc. Natl. Acad. Sci. USA* 95:9167-71.
65. Miranda-Carus, M.E., Tseng, C.-E., Rashbaum, W.M., Ochs, R.L., Casiano, C.A., DiDonato, F., **Chan, E.K.L.**, and Buyon, J.P. (1998) Accessibility of SSA/Ro and SSB/La antigens to maternal autoantibodies in apoptotic human fetal cardiac myocytes. *J. Immunol.* 161:5061-9.
66. Poltorak, A., Smirnova, I., He, X., Liu, M.-L., Van Huffel, C., Birdwell, D., Alejos, E., Silva, M., Du, X., Thompson, P., **Chan, E.K.L.**, Ledesma, J., Roe, B., Clifton, S., Vogel, S.N., Beutler, B. (1998) Genetic and physical mapping of the Lps locus: Identification of the Toll-4 receptor as a candidate gene in the critical region. *Blood Cells, Molecules, and Diseases* 24:340-55.
67. Miranda-Carus, M.E., Boutjdir, M., Tseng, C.-E., DiDonato, F., **Chan, E.K.L.**, and Buyon, J.P. (1998) Induction of antibodies reactive with SSA/Ro-SSB/La and development of congenital heart block in a murine model. *J. Immunol.* 161:5886-92.
68. von Mühlen, C.A., **Chan, E.K.L.**, Angles-Cano, E., Mamula, M.J., Garcia-De La Torre, I., and Fritzler, M.J. (1998) Advances in autoantibodies in SLE. *Lupus* 7:507-14.
69. Tseng, C., Miranda, E., DiDonato, F., Boutjdir, M., Rashbaum, W., **Chan, E.K.L.**, and Buyon, J.P. (1999) mRNA and protein expression of SS-A/Ro and SS-B/La in human fetal cardiac myocytes cultured using a novel application of the Langendorf procedure. *Pediatr. Res.* 45:260-9.
70. Zhang, J.Y., **Chan, E.K.L.**, Peng, X.-X., and Tan, E.M. (1999) A novel cytoplasmic protein

- with RNA-binding motifs is an autoantigen in human hepatocellular carcinoma. *J. Exp. Med.* 189:1101-10.
71. Selak, S., **Chan, E.K.L.**, Schoenroth, L., Senecal, J.-L., and Fritzler, M.J. (1999) Early endosome antigen 1: An autoantigen associated with neurological diseases. *J. Investig. Med.* 47: 311-8.
 72. Wang, D., Buyon, J.P., Zhu, W., and **Chan, E.K.L.** (1999) Defining a novel 75kDa phosphoprotein associated with SS-A/Ro and identification of distinct human autoantibodies. *J. Clin. Invest.* 104:1265-75.
 73. Jakymiw, A., Raharjo, E., Rattner, J.B. Eystathioy, T., **Chan, E.K.L.**, and Fujita, D.J. (2000) Identification and characterization of a novel Golgi protein, golgin-67. *J. Biol. Chem.* 275: 4137-44.
 74. Fritzler, M.J., Kerfoot, S.M., Feasby, T.E., Zochodne, D.W., Westendorf, J.M., Dalmau, J.O., and **Chan, E.K.L.** (2000) Autoantibodies from patients with idiopathic ataxia bind to M-phase phosphoprotein-1 (MPP-1). *J. Investig. Med.* 48: 28-39.
 75. Eystathioy, T., Jakymiw, A., Fujita, D.J., Fritzler, M.J., and **Chan, E.K.L.** (2000) Human autoantibodies to a novel Golgi protein golgin-67: high similarity with golgin-95/gm130 autoantigen. *J. Autoimmunity* 14:179-87.
 76. Moreno, R.D., Ramalho-Santos, J., **Chan, E.K.L.**, Wessel, G.M., and Schatten, G. (2000) The Golgi apparatus segregation from the lysosomal/acrosomal vesicle during rhesus spermiogenesis: structural alterations. *Dev. Biol.* 219:334-49.
 77. Smirnova, I., Poltorak, A., **Chan, E.K.L.**, McBride, C., and Beutler, B. (2000) Phylogenetic variation and polymorphism at the Toll-like receptor 4 locus (TLR4). *Genome Biology* 1:002.1-10.
 78. Tucker, K.E., Massello, L.K., Gao, L., Barber, T.J., Hebert, M.D., **Chan, E.K.L.**, and Matera, A.G. (2000) Structure and characterization of the murine p80 coilin gene, *Coil.* *J. Struct. Biol.* 129:269-77.
 79. Ochs, R.L., Muro, Y., Si, Y., Ge, H., **Chan, E.K.L.**, and Tan, E.M. (2000) Autoantibodies to DFS70/transcriptional coactivator p75 in atopic dermatitis and other conditions. *J. Allergy Clin. Immunol.* 105:1211-20.
 80. Moreno, R.D., Ramalho-Santos, J., Sutovsky, P., **Chan, E.K.L.**, and Schatten, G. (2000) Vesicular traffic and Golgi apparatus dynamics during mammalian spermatogenesis: implication for acrosome architecture. *Biol. Reprod.* 63:89-98.
 81. Miranda, E., Dinu, A., DiDonato, F., **Chan, E.K.L.**, and Buyon, J.P. (2000) Anti-SSA/Ro and SSB/La autoantibodies bind the surface of apoptotic fetal cardiocytes and promote secretion of TNF α by macrophages. *J. Immunol.* 165:5345-51.
 82. Ramalho-Santos, J., Moreno, R.D., Wessel, G.M., **Chan, E.K.L.**, and Schatten, G. (2001) Membrane trafficking machinery components associated with the mammalian acrosome during spermiogenesis. *Exp. Cell Res.* 267:45-60.
 83. Di Donato, F., **Chan, E.K.L.**, Askanase, A.D., Miranda-Carus, M.E., and Buyon, J.P. (2001) Interaction between 52kD SSA/Ro and deubiquitinating enzyme UnpEL: a clue to function. *Int. J. Biochem. Cell Biol.* 33:924-34.
 84. Zhang, J.Y., Zhu, W., Imai, H., Kiyosawa, K., **Chan, E.K.L.**, and Tan, E.M. (2001) De-novo humoral immune responses to cancer-associated autoantigens during transition from chronic liver disease to hepatocellular carcinoma. *Clin. Exp. Immunol.* 125:3-9.

85. Zhang, J.Y., **Chan, E.K.L.**, Peng, X-X., Lu, M., Wang, X., Mueller, F., and Tan, E.M. (2001) Autoimmune responses to mRNA binding proteins p62 and Koc in diverse malignancies. *Clin. Immunol.* 100:149-56.
86. Tucker, K.E., Berciano, M.T., Jacobs, E.Y., LePage, D.F., Massello, L.K., Shpargel, K.B., Rossire, J.J., Barber, T.J., **Chan, E.K.L.**, Lafarga, M., Conlon, R.A., and Matera, A.G. (2001) Residual Cajal bodies in coilin knockout mice fail to recruit Sm snRNPs and SMN, the spinal muscular atrophy determining gene product. *J. Cell Biol.* 154:293-308.
87. Lu, M., Nakamura, R.M., Dent, E.D., Zhang, J.Y., Nielsen, F., Christiansen, J., **Chan, E.K.L.**, and Tan, E.M. (2001) Aberrant expression of fetal RNA-binding protein p62 in liver cancer and liver cirrhosis. *Am. J. Pathol.* 159:945-53.
88. Billaut-Mulot, O., Cocude, C., Kolesnitchenko, V., Truong, M., **Chan, E.K.L.**, Hachula, E., de la Tribonnière, X., Capron, A., and Bahr, G.M. (2001) SS-56, a novel cellular target of autoantibody responses in Sjögren's syndrome and systemic lupus erythematosus. *J. Clin. Invest.* 108:861-9.
89. Zhu, W., **Chan, E.K.L.**, Li, J., Hemmerich, P., and Tan, E.M. (2001) Transcription activating property of antigen SG₂NA and modulating effect of WD-40 repeats. *Exp. Cell Res.* 269:312-21.
90. Hales, C.M., Griner, R., Hobdy-Henderson KC, Dorn, M., Hardy, D., Kumar, R., Navarre, J., **Chan, E.K.L.**, Lapierre, L.A., and Goldenring, J.R. (2001) Identification and characterization of a family of Rab11 interacting proteins. *J. Biol. Chem.* 276:39067-75.
91. Chen, C.Y., Gherzi, R., Ong, S.E., **Chan, E.K.L.**, Raijmakers, R., Pruijn, G.J.M., Stoecklin, G., Moroni, C., Mann, M., and Karin, M. (2001) AU binding proteins recruit the exosome to degrade ARE-containing mRNAs. *Cell* 107, 451-64.
92. Marra, P., Maffucci, T., Daniele, T., Di Tullio, G., Ikehara, Y., **Chan, E.K.L.**, Luini, A., Mironov, A., and De Matteis, M.A. (2001) The Golgi matrix proteins GM130 and GRASP65 cycle through a novel subdomain of the intermediate compartment. *Nature Cell Biol.* 3:1101-13.
93. Wang, D., Buyon, J.P., Yang, Z., DiDonato, F., Miranda-Carus, M.E., and **Chan, E.K.L.** (2001) Leucine zipper domain of 52kDa SS-A/Ro promotes protein dimer formation and inhibits *in vitro* transcription activity. *Biochim Biophys Acta* 1568:155-61.
94. Zhang, J.Y., Wang, X., Peng, X-X., and **Chan, E.K.L.** (2002) Autoantibody responses in Chinese hepatocellular carcinoma. *J. Clin. Immunol.* 22:98-105.
95. Eystathioy, T., Peebles, C.L., Hamel, J.C., Vaughan, J.H., and **Chan, E.K.L.** (2002) Autoantibody to hLSm4 and the heptameric LSm complex in anti-Sm sera. *Arthritis Rheum.* 46:726-34.
96. Eystathioy, T., **Chan, E.K.L.**, Tenenbaum, S.A., Keene, J.D., Griffith, K., and Fritzler, M.J. (2002) A phosphorylated cytoplasmic autoantigen, GW182, associates with a unique population of human mRNAs within novel cytoplasmic speckles. *Mol. Biol. Cell* 13: 1338-51.
97. Nozawa, K., Casiano, C.A., Hamel, J.C., Molinari, C., Fritzler, M.J., and **Chan, E.K.L.** (2002) Fragmentation of Golgi complex and Golgi autoantigens during apoptosis and necrosis. *Arthritis Res.* 4:R3.
98. Soo-Hoo, L., Zhang, J.Y., and **Chan, E.K.L.** (2002) Cloning and characterization of a novel 90kDa "companion" autoantigen of p62 overexpressed in cancer. *Oncogene* 21:5006-5015.
99. Kickhoefer, V.A., Poderycki, M.J., **Chan, E.K.L.**, and Rome, L.A. (2002) The La RNA

- binding protein interacts with the vault RNA and is a vault-associated protein. *J. Biol. Chem.* 277:41282-6.
100. Buyon, J.P., Clancy, R., Di Donato, F, Miranda-Carus, M.E., Askanase, A.D., Garcia, J., Qu, Y., Hu, K., Yue, Y., **Chan, E.K.L.**, and Boutjdir, M. (2002) Cardiac 5-HT₄ serotonergic receptors, 52kDa SS-A/Ro and autoimmune-associated congenital heart block. *J. Autoimmunity* 19:79-86.
 101. Roti Roti, R.C., Myers, C.D. Ayers, R.A., Boatman, D.L., Delfosse, S., **Chan, E.K.L.**, Ackerman, M.J., January, C.T., and Robertson, G.A. (2002) Interaction with GM130 during HERG ion channel trafficking: Disruption by Type 2 congenital long qt syndrome mutations. *J. Biol. Chem.* 277:47779-85.
 102. Zhang, J.Y., Casiano, C.A., Peng, X.X., Koziol, J.A., **Chan, E.K.L.**, and Tan, E.M. (2003) Enhancement of antibody detection in cancer using panel of recombinant tumor-associated antigens. *Cancer Epidemiology, Biomarkers, and Prevention* 12:136-43.
 103. Staub, H.L., Souza, F., **Chan, E.K.L.**, and von Mühlen, C.A. (2003) Anti-Golgi antibody in adult Still's disease. *Clin. Exp. Rheum.* 21:275-6.
 104. Eystathioy, T., **Chan, E.K.L.**, Mahler, M., Luft, L.M., Fritzler, M.L., and Fritzler, M.J. (2003) A panel of monoclonal antibodies to cytoplasmic GW bodies and the mRNA binding protein GW182. *Hybridoma & Hybridomics*, 22:79-86.
 105. Clancy, R.M., **Chan, E.K.L.**, Chandrashekhar, S., and Buyon, J.P. (2003) Does the cellular localization of antigens in or on apoptotic blebs influence the pathogenicity or benefit of cognate antibodies? Comments on the article by Dieude et al. *Arthritis Rheum.*, 48:2080-2 (letter).
 106. Eystathioy, T., Jakymiw, A., **Chan, E.K.L.**, Séraphin, B., Cougot, N., and Fritzler, M.J. (2003) The GW182 protein co-localizes with mRNA degradation associated proteins hDcp1 and hLSm4 in cytoplasmic GW bodies. *RNA* 9:1171-3.
 107. Fritzler, M.J., Wiik, A., Tan, E.M., Smolen, J.S., McDougal, J.S., **Chan, E.K.L.**, Gordon, T.P., Hardin, J.A., Kalden, J.R., Lahita, R.G., Maini, R.N., Reeves, W.H., Rothfield, N.F., Takasaki, Y., Wilson, M., Byrd, M.G., Slivka, L., and Koziol, J.A. (2003) A critical evaluation of enzyme immunoassay kits for detection of antinuclear autoantibodies of defined specificities. III. Comparative performance characteristics of academic and manufacturers' laboratories. *J. Rheumatol.* 30:2374-81.
 108. Koziol, J.A., Zhang, J.Y., Casiano, C.A., Peng, X.X., Shi, F.D., Feng, A.C., **Chan, E.K.L.**, and Tan, E.M. (2003) Recursive partitioning as an approach to selection of immune markers for tumor diagnosis. *Clin. Cancer Res.* 9:5120-6.
 109. Luft, L.M., Barr, S.G., Martin, L.O., **Chan, E.K.L.**, and Fritzler, M.J. (2003) Autoantibodies to tissue transglutaminase in Sjögren's syndrome and related rheumatic diseases. *J. Rheumatol.* 30:2613-9.
 110. Eystathioy, T., **Chan, E.K.L.**, Takeuchi, K., Mahler, M., Luft, L.M., Zochodne, D.W., and Fritzler, M.J. (2003) Clinical and serological associations of autoantibodies to GW bodies and a novel cytoplasmic autoantigen GW182. *J. Mol. Med.*, 81:811-8.
 111. Nozawa, K., Fritzler, M.J., von Mühlen, C.A., and **Chan, E.K.L.** (2004) Giantin is the major Golgi autoantigen in human anti-Golgi complex sera. *Arthritis Res. Ther.* 6:R95-R102.
 112. Julkunen, H., Miettinen, A., Walle, T.K., **Chan, E.K.L.**, and Eronen, M. (2004) Autoimmune response in mothers of children with congenital and postnatally diagnosed isolated heart block: a population based study. *J. Rheumatol.* 31:183-9.

113. Eronen, M., Miettinen, A., Walle, T.K., **Chan, E.K.L.**, and Julkunen, H. (2004) Relationship of maternal autoimmune response to clinical manifestations in children with congenital complete heart block. *Acta Paediatr.* 93:803-9.
114. Yang, Z., Jakymiw, A., Wood, M.R., Eystathioy, T., Rubin, R.L., Fritzler, M.J., and **Chan, E.K.L.** (2004) GW182 is critical for the stability of GW bodies expressed during the cell cycle and cell proliferation. *J. Cell Sci.* 117:5567-78.
115. Shi, F.D., Zhang, J.Y., Liu, D., Rearden, A., Elliot, M., Nachtsheim, D., Daniels, T., Casiano, C.A., Heeb, M.J., **Chan, E.K.L.**, and Tan, E.M. (2005) Preferential humoral immune response in prostate cancer to cellular proteins p90 and p62 in a panel of tumor associated antigens. *Prostate* 63:252-8.
116. Himoto, T., Kuriyama, S., Zhang, J.Y., **Chan, E.K.L.**, Nishioka, M., and Tan, E.M. (2005) Significance of autoantibodies against insulin-like growth factor II mRNA-binding proteins in patients with hepatocellular carcinoma. *Int. J. Oncol.* 26:311-7.
117. Megliorino, R., Shi, F.D., Peng, X.X., Wang, X., **Chan, E.K.L.**, Tan, E.M., and Zhang, J.Y. (2005) Autoimmune response to anti-apoptotic protein survivin and its association with antibodies to p53 and c-myc in human malignancies. *Cancer Detect. Prev.* 29:241-8.
118. Lu, Y., Ye, P., Chen, S-L., Tan, E.M., and **Chan, E.K.L.** (2005) Identification of kinectin as a novel Behcet's disease autoantigen. *Arthritis Res. Ther.* 7:R1133-9. Highly accessed
119. Himoto, T., Kuriyama, S., Zhang, J.Y., **Chan, E.K.L.**, Kimura, Y., Masaki, T., Uchida, N., Nishioka, M., and Tan, E.M. (2005) Analyses of autoantibodies against tumor-associated antigens in patients with hepatocellular carcinoma. *Int. J. Oncol.* 27:1079-85.
120. Clancy, R.M., Buyon, J.P., Ikeda, K., Nozawa, K., Argyle, D.A., Friedman, D.M., and **Chan, E.K.L.** (2005) Relationship of maternal antibody responses to the 52kD SS-A/Ro p200 peptide and the development of fetal conduction defects. *Arthritis Rheum.* 52:3079-86.
121. Jakymiw, A., Lian, S., Eystathioy, T., Li, S., Satoh, M., Hamel J.C., Fritzler, M.J., and **Chan, E.K.L.** (2005) Disruption of GW bodies impairs mammalian RNA Interference. *Nature Cell Biol.* 7:1267-74.

Commented by Charles Q. Choi: "A new view of translational control. How P-bodies, stress granules, and other cytoplasmic foci manage the cellular currency," The Scientist 19(23):20, 2005.


122. Lian, S., Jakymiw, A., Eystathioy, T., Hamel, J.C., Fritzler, M.J., and **Chan, E.K.L.** (2006) GW bodies, microRNAs and the cell cycle. *Cell Cycle* 5:242-5.
123. Jakymiw, A., Ikeda, K., Fritzler, M.J., Reeves, W.H., Satoh, M., and **Chan, E.K.L.** (2006) Autoimmune targeting of key components of RNA interference. *Arthritis Res. Ther.* 8:R87. Highly accessed

Editorial: Pruijn, Ger J.M. The RNA interference pathway: a new target for autoimmunity, Arthritis Res. Therapy 8:110, 2006

Mini-review: Herrera-Esparza R, Pacheco-Tovar D, Avalos-Diaz E. GW bodies: from RNA biology to clinical implications in autoimmunity. Expert Rev.Clin.Immunol. 4:21-5, 2008.

124. Yamasaki, Y., Yamada, H., Nozaki, T., Akaogi, J., Nichols, C., Lyons, R., Loy, A.C., **Chan, E.K.L.**, Reeves, W.H., and Satoh, M. (2006) Unusually high frequency of autoantibodies to PL-7 associated with milder muscle disease in Japanese patients with polymyositis/dermatomyositis. *Arthritis Rheum.* 54:2004-9.

125. Yamasaki, Y., Narain, S., Hernandez, L., Barker, T., Ikeda, K., Segal, M.S., Richards, H.B., **Chan, E.K.L.**, Reeves, W.H., and Satoh, M. (2006) Autoantibodies to the replication protein A complex in SLE and other autoimmune diseases. *Arthritis Res. Ther.* 8:R111.
126. Yamasaki, Y., Narain, S., Ikeda, K., Honkannen-Scott, M., Hernandez, B.S., Barker, T., Richards, H.B., **Chan, E.K.L.**, Reeves, W.H., and Satoh, M. (2006) Nucleolar staining cannot be used as a screening test for the scleroderma marker anti-RNA polymerase I/III antibodies. *Arthritis Rheum.* 54:3051-6.
127. Pauley, K.M., Eystathioy, T., Jakymiw, A., Hamel J.C., Fritzler, M.J., and **Chan, E.K.L.** (2006) Formation of GW bodies is a consequence of miRNA genesis. *EMBO Reports* 7:904-10.
128. Ikeda, K., Satoh, M., Pauley, K.M., Fritzler, M.J., Reeves, W.H., and **Chan, E.K.L.** (2006) Detection of the argonaute protein Ago2 and microRNAs in the RNA induced silencing complex (RISC) using a monoclonal antibody. *J. Immunol. Methods* 317:38-44. PMC1913063
129. Kopp, K., Gasiorowski, J. Z., Chen, D., Gilmore, R., Norton, J.T., Wang, C., Leary, D.J., **Chan, E.K.L.**, Dean, D.A., and Huang, S. (2007) Pol I transcription and pre-rRNA processing are coordinated in a transcription dependent manner in mammalian cells. *Mol. Biol. Cell* 18:394-403.
130. Zhang, J.Y., Megliorino, R., Peng, X.X., Tan, E.M., Chen, Y., and **Chan, E.K.L.** (2007) Antibody detection using tumor-associated antigen mini-array in immunodiagnosing human hepatocellular carcinoma. *J. Hepatol.* 46:107-14.
Editorial: Paradis, V. and Bedossa, P. In the new era of noninvasive markers of hepatocellular carcinoma. J. Hepatol. 46:9-11, 2007.
131. Yamasaki, Y., Narain, S., Yoshida, H., Hernandez, L., Barker, T., Hahn, P.C., Sobel, E.S., Segal, M.S., Richards, H.B., **Chan, E.K.L.**, Reeves, W.H., and Satoh, M. (2007) Autoantibodies to RNA helicase A: A new serological marker of early lupus. *Arthritis Rheum.* 56:596-604.
132. Junttila, M.R., Puustinen, P., Niemelä, M., Ahola, R., Arnold, H., Bottzauw, T., Ala-aho, R., Nielsen, C., Ivaska, J., Taya, Y., Lu, S., Lin, S., **Chan, E.K.L.**, Wang, X.J., Grenman, R., Kast, J., Kallunki, T., Sears, R., Kähäri, V., and Westermarck, J. (2007) CIP2A inhibits PP2A in human malignancies. *Cell* 130:51-62.
133. Lian, S., Fritzler, M.J., Katz, J., Hamazaki, T., Terada, N., Satoh, M., and **Chan, E.K.L.** (2007) Small interfering RNA-mediated silencing induces target-dependent assembly of GW/P bodies. *Mol. Biol. Cell* 18:3375-87.
134. **Chan, E.K.L.**, Fritzler, M.J., Wiik, A., Andrade, L.E.C., Reeves, W.H., Tincani, A., Meroni, P.L., and the IUIS/WHO/AF/CDC committee for the standardization of autoantibodies in rheumatic and related diseases. (2007) Autoantibody Standardization Committee in 2006. *Autoimmunity Rev.* 6:577-80.
135. Bhanji, R.A., Eystathioy, T., **Chan, E.K.L.**, Bloch, D.B., and Fritzler, M.J. (2007) Clinical and serological features of patients with autoantibodies to GW/P Bodies. *Clin. Immunol.* 125:247-56. PMC2147044
136. Moser, J.J., Eystathioy, T., **Chan, E.K.L.**, and Fritzler, M.J. (2007) Markers of mRNA stabilization, degradation and RNAi within astrocytoma GW bodies. *J. Neurosci. Res.* 85:3619-31.
137. Nozawa, K., Fritzler, M.J., Ikeda, K., Takasaki, Y., Satoh, M., and **Chan, E.K.L.** (2008)

- Differential anti-Golgi complex autoantibody production in murine lactate dehydrogenase-elevating virus infection. *Immunopharmacology and Immunotoxicology* 30:13-25.
138. Kakumanu, P., Yamagata, H., Sobel, E.S., Reeves, W.H., **Chan, E.K.L.**, and Satoh, M. (2008) Patients with pulmonary tuberculosis are frequently positive for anti-CCP antibodies but they also react with unmodified arginine peptide. *Arthritis Rheum.* 58:1576-81.
139. Pauley, K.M., Satoh, M., Chan, A.L., Bubb, M.R., Reeves, W.H., and **Chan, E.K.L.** (2008) Upregulated miR-146a expression in peripheral blood mononuclear cells from rheumatoid arthritis patients. *Arthritis Res. Ther.* 10:R101. PMC2575615 
140. Koppang, E.O., Bjerkaas, I., Haugarvoll, E., **Chan, E.K.L.**, Szabo, N.J., Ono, N., Akikusa, B., Jirillo, E., Poppe, T.T., Sveier, H., Tørud, B., and Satoh, M. (2008) Vaccination-induced systemic autoimmunity in farmed Atlantic salmon. *J. Immunol.* 181:4807-14.
141. Li, S., Lian, S.L., Moser, J.J., Fritzler, M.L., Fritzler, M.J., Satoh, M., and **Chan, E.K.L.** (2008) Identification of GW182 and its novel isoform TNGW1 as translational repressors in Ago2 mediated silencing. *J. Cell Sci.* 121: 4134-44.
142. Nozawa, K., Fritzler, M.J., Takasaki, Y., Wood, M.R., and **Chan, E.K.L.** (2009) Co-clustering of Golgi complex and other cytoplasmic organelles to crescentic region of half-moon nuclei during apoptosis. *Cell Biol. Int.* 33:148-57. PMC2667205
143. Bulosan, M., Pauley, K.M., Yo, K., **Chan, E.K.L.**, Katz, J., Peck, A.B., and Cha, S. (2009) Inflammatory caspases are critical for enhanced cell death in the target tissue of Sjögren's syndrome prior to disease onset. *Immunol. Cell Biol.* 87:81-90.
144. Nozawa, K., Ikeda, K., Satoh, M., Reeves, W.H., Stewart, C., Li, Y.C., Yen, T.J., Rios, R.M., Takamori, K., Ogawa, H., Sekigawa, I., Takasaki, Y., and **Chan, E.K.L.** (2009) Autoantibody to NA14 is an independent marker primarily for Sjögren's syndrome. *Frontiers Biosci.* 14:3733-9. PMC2864436
145. Palafox-Sánchez, C.A., Satoh, M., **Chan, E.K.L.**, Carcamo, W.C., Muñoz-Valle, J.F., Orozco-Barocio, G., Oregón-Romero, E., Navarro-Hernández, R.E., Salazar-Páramo, M., Castañeda, A.C., and Vázquez-Del Mercado, M. (2009) Reduced IgG anti-small nuclear ribonucleoprotein autoantibody production in systemic lupus erythematosus patients with positive IgM anti-cytomegalovirus antibodies. *Arthritis Res. Ther.* 11:R27. PMC2688261
146. Llanos, C., **Chan, E.K.L.**, Li, S., Abadal, G.X., Izmirly, P., Byrne, C., Clancy, R.M., and Buyon, J.P. (2009) Antibody Reactivity to [alpha]-Enolase in Mothers of Children with Congenital Heart Block. *J. Rheumatol.* 36:565-9.
147. Moser, J.J., **Chan, E.K.L.**, and Fritzler, M.J. (2009) Optimization of immunoprecipitation-western blot analysis in detecting GW182-associated components of GW/P Bodies. *Nat Protoc.* 4:674-85. PMC2797048
148. Lian, S.L., Li, S., Abadal, G.X., Pauley, B.A., Fritzler, M.J., and **Chan, E.K.L.** (2009) The C-terminal half of human Ago2 binds to multiple GW-rich regions of GW182 and requires GW182 to mediate silencing. *RNA* 15:804-13. PMC2673069
149. Brucato, A., Grava, C., Bortolati, M., Ikeda, K., Milanese, O., Cimaz, R., Ramoni, V., Vignati, G., Martinelli, S., Sadou, Y., Borghi, A., Tincani, A., **Chan, E.K.L.**, and Ruffatti, A. (2009) Congenital Heart Block not associated with anti-Ro/La antibodies: comparison with anti-Ro/La-positive cases. *J. Rheumatol.* 36:1744-8. PMC2798588
150. Nahid, M.A., Pauley, K.M., Satoh, M., and **Chan, E.K.L.** (2009) MicroRNA-146a is critical for endotoxin-induced tolerance. Implication on innate immunity. *J. Biol. Chem.*

284:34590-9. PMC2787321

151. Kakumanu, P., Sobel, E.S., Narain, S., Li, Y., Akaogi, J., Yamasaki, Y., Segal, M.S., Hahn, P.C., **Chan, E.K.L.**, Reeves, W.H., and Satoh, M. (2009) Citrulline-dependence of anti-CCP antibodies in SLE as a marker of deforming/erosive arthritis. *J. Rheumatol.* 36:2682-90. PMC2803319
152. Ostrov, D.A., Magis, A.T., Wronski, T.J., **Chan, E.K.L.**, Toro, E.J., Donatelli, R.E., Sajek, K., Haroun, I.N., Nagib, M.I. Piedrahita, A., Harris, A., and Holliday, L.S. (2009) Identification of enoxacin as an inhibitor of osteoclast formation and bone resorption by structure-based virtual screening. *J. Med. Chem.* 52:5144-51. PMC2889180
153. Pereira, D.B., Sannes, T., Dodd, S.M., Jensen, S.E., Morgan, L.S., and **Chan, E.K.L.** (2010) Life stress, negative mood states, and antibodies to heat shock protein 70 in endometrial cancer. *Brain, Behavior, and Immunity* 24:210-4. PMC2818111
154. Vázquez-Del Mercado, M., Palafox-Sánchez, C.A., Muñoz-Valle, J.F., Orozco-Barocio, G., Oregon Romero, E., Navarro Hernández, R.E., Salazar-Páramo, M., Chan, J.Y.F., **Chan, E.K.L.**, and Satoh, M. (2010) High prevalence of autoantibodies to RNA helicase A in Mexican patients with systemic lupus erythematosus. *Arthritis Res. Ther.* 12:R6. PMC2875632
155. Pauley, K.M., Satoh, M., Pauley, B.A., Dominguez-Gutierrez, P.R., Wallet, S.M., Holliday, L.S., Cha, S., Reeves, W.H., and **Chan, E.K.L.** (2010) Formation of GW/P bodies as marker for microRNA-mediated regulation of innate immune signaling in THP-1 cells. *Immunol. Cell Biol.* 88:205-12. PMC2824770
156. Jakymiw, A., Patel, R., Deming, N., Bhattacharyya, I., Shah, P., Lamont, R.J., Stewart, C., Cohen, D., and **Chan, E.K.L.** (2010) Overexpression of dicer as a result of reduced let-7 microRNA levels contributes to increased cell proliferation of oral cancer cells. *Genes, Chromosomes and Cancer* 49:540-59. PMC2859695
157. Ceribelli, A., Cavazzana, I., Franceschini, F., Airò, P., Tincani, A., Cattaneo, R., Pauley, B.A., **Chan, E.K.L.**, and Satoh, M. (2010) Anti-Th/To are common anti-nucleolar autoantibodies in Italian scleroderma patients. *J. Rheumatol.* 37:2071-5.
158. Katz, J., Jakymiw, A., Ducksworth, M.K., Stewart, C.M., Bhattacharyya, I., Cha, S., and **Chan, E.K.L.** (2010) CIP2A expression and localization in oral carcinoma and dysplasia. *Cancer Biology & Therapy* 10:694-9.
159. Vázquez-Del Mercado, M., Sánchez Orozco, L.V., Pauley, B.A., Chan, J.Y.F., **Chan, E.K.L.**, Panduro, A., Maldonado González, M., Jimenez-Luevanos, M.A., Martín Márquez, B.T., Palafox-Sanchez, C.A., Dávalos-Rodríguez, I.P., Salazar-Páramo, M., González Lopez, L., Gámez Nava, J.I., and Satoh, M. (2010) Autoantibodies to a miRNA-binding protein Argonaute 2 (Su antigen) in patients with hepatitis C virus infection. *Clin. Exp. Rheumatol.* 28:842-8.
160. Ceribelli, A., Tincani, A., Cavazzana, I., Franceschini, F., Cattaneo, R., Pauley, B.A., Chan, J.Y.F., **Chan, E.K.L.**, and Satoh, M. (2011) Anti-argonaute2 (Ago2/Su) and -Ro antibodies identified by immunoprecipitation in primary anti-phospholipid syndrome (PAPS). *Autoimmunity* 44:90-7.
161. Nahid, M.A., Satoh, M., and **Chan, E.K.L.** (2011) Mechanistic role of miR-146a in endotoxin-induced differential cross-regulation of TLR signaling. *J Immunol.* 186:1723-34. PMC3608687
162. Nahid, M.A., Rivera, M., Lucas, A., **Chan, E.K.L.**, and Kesavalu, L. (2011) Polymicrobial

infection with periodontal pathogens specifically enhances miR-146a in ApoE^{-/-} mice during experimental periodontal disease. *Infection Immun.* 79:1597-605.

Selected by Editors for Journal Spotlights to highlight significant papers in the issue.

163. Yao, B., Li, S., Jung, H.M., Lian, S.L., Abadal, G.X., Han, F., Fritzler, M.J., and **Chan, E.K.L.** (2011) Divergent GW182 functional domains in the regulation of translational silencing. *Nucleic Acids Res.* 39:2534-47. PMC3074120
164. Satoh, M., Bjerkås, I., Haugarvoll, E., **Chan, E.K.L.**, Szabo, N.J., Jirillo, E., Poppe, T.T., Sveier, H., Tørud, B., and Koppang, E.O. (2011) Polyclonal hypergammaglobulinemia and autoantibody production induced by vaccination in farmed Atlantic salmon. *Fish Shellfish Immunol.* 30:1080-6.
165. Yao, B., Li, S., Lian, S.L., Fritzler, M.J., and **Chan, E.K.L.** (2011) Mapping of Ago2-GW182 functional interactions. *Methods Mol. Biol.* 725:45-62. PMID: 21528446
166. Satoh, M., Krzyszcak, M.E., Li, Y., Ceribelli, A., Ross, S.J., **Chan, E.K.L.**, Segal, M.S., Bubb, M.R., Sobel, E.S., and Reeves, W.H. (2011) Frequent coexistence of anti-topoisomerase I and anti-U1RNP autoantibodies in African American patients associated with mild skin involvement: a retrospective clinical study. *Arthritis Res. Ther.* 13:R73.
167. Satoh, M., Chan, J.Y.F., Ross, S., Ceribelli, A., Cavazzana, I., Franceschini, F., Li, Y., Reeves, W.H., Sobel, E.S., and **Chan, E.K.L.** (2011) Autoantibodies to survival of motor neuron (SMN) complex in patients with polymyositis – Immunoprecipitation of D-E-F-G without other components of small nuclear ribonucleoproteins. *Arthritis Rheum.*, 63:1972-8. PMC3123691
168. Pauley, K.M., Stewart, C.M., Gauna A.E., Dupre, L.C., Kuklani, R., Chan, A.L., Pauley, B.A., Reeves, W.H., **Chan, E.K.L.**, and Cha, S. (2011) Altered miR-146a expression in Sjögren's syndrome and its functional role in innate immunity. *European J. Immunol.*, 41:2029-39.
169. Ceribelli, A., Krzyszcak, M.E., Li, Y., Ross, S.J., Chan, J.Y.F., **Chan, E.K.L.**, Burlingame, R., Webb, T.T., Bubb, M.R., Sobel, E.S., Reeves, W.H., and Satoh, M. (2011) Atypical clinical presentation of a subset of patients with anti-RNA polymerase III - non-scleroderma cases associated with dominant RNA polymerase I reactivity and nucleolar staining. *Arthritis Res. Ther.* 13:R119.
170. Pauley, K.M., Gauna A.E., Grichtchenko, I.I., **Chan, E.K.L.**, and Cha, S. (2011) A secretagogue-small interfering RNA conjugate confers resistance to cytotoxicity in a cell model of Sjögren's syndrome. *Arthritis Rheum.* 63:3116-25.
171. Krzyszcak, M.E., Li, Y., Ross, S.J., Ceribelli, A., **Chan, E.K.L.**, Bubb, M.R., Sobel, E.S., Reeves, W.H., and Satoh, M. (2011) Gender and ethnicity differences in the prevalence of scleroderma-related autoantibodies. *Clin. Rheumatol.* 30:1333-9. PMC3629275
172. Patel, R.S., Jakymiw, A., Yao, B., Pauley, B.A., Carcamo, W.C., Katz, J., Cheng, J.Q., and **Chan, E.K.L.** (2011) High resolution of microRNA signatures in human whole saliva. *Arch. Oral Biol.* 56:1506-1513. PMC3189266
173. Satoh, M., Vazquez del Mercado, M., Krzyszcak, M.E., Li, Y., Ceribelli, A., Burlingame, R.W., Webb, T.T., Sobel, E.S., Reeves, W.H., and **Chan, E.K.L.** (2011) Coexistence of anti-RNA polymerase III and anti-U1RNP antibodies in patients with SLE – Two cases without features of scleroderma. *Lupus* 21:68-74. PMC3608688
174. Carcamo, W.C., Satoh, M., Kasahara, H., Terada, N., Hamazaki, T., Chan, J.Y.F., Yao, B., Tamayo, S., Covini, G., von Mühlen, C.A., and **Chan, E.K.L.** (2011) Induction of

- cytoplasmic rod and ring structures by inhibition of the CTP/GTP synthetic pathways in mammalian cells. PLoS ONE 6:e29690.
175. Ventelä, S., Côme, C., Mäkelä, J., Hobbs, R., Mannermaa, L., Kallajoki, M., **Chan, E.K.L.**, Pandolfi, P.P., Toppari, J., and Westermarck, J. (2012) CIP2A is essential for maintenance of PLZF-positive spermatogonial progenitor cell population and spermatogenesis in mice. PLoS ONE 7:e33209.
 176. Satoh, M., Chan, J.Y.F., Ross, S.J., Li, Y., Yamasaki, Y., Yamada, H., Vazquez del Mercado, M., Petri, M., Jara, L.J., Saavedra, M.A., Cruz-Reyes, C., Sobel, E.S., Reeves, W.H., Ceribelli, A., and **Chan, E.K.L.** (2012) Autoantibodies to transcription intermediary factor (TIF)1 β associated with dermatomyositis. Arthritis Res. Ther. 14:R79.
 177. Ceribelli, A., Fredi, M., Taraborelli, M., Cavazzana, I., Franceschini, F., Quinzanini, M., Tincani, A., Ross, S.J., Chan, J.Y.F., Pauley, B., **Chan, E.K.L.**, and Satoh, M. (2012) Anti-MJ/NXP-2 autoantibody specificity in a cohort of adult Italian patients with polymyositis/dermatomyositis. Arthritis Res. Ther. 14:R97.
 178. Covini, G., Carcamo, W.C., Bredi, E., von Mühlen, C.A., Colombo, M., and **Chan, E.K.L.** (2012) Cytoplasmic rods and rings autoantibodies developed during pegylated interferon and ribavirin therapy in patients with chronic hepatitis C. Antiviral therapy, 17:805-11.
 179. Satoh, M.,* **Chan, E.K.L.**,* Ho, L.A., Rose, K., Parks, C.G., Cohn, R.D., Jusko, T.A., Walker, N.J., Germolec, D.R., Whitt, I.Z., Crockett, P.W., Pauley, B.A., Chan, J.Y.F., Ross, S.J., Birnbaum, L.S., Zeldin, D.Z., and Miller, F.W. (2012) Prevalence and sociodemographic correlates of anti-nuclear antibodies in the United States. Arthritis Rheum. 64:2319-27. PMC3330150 [*Faculty of 1000 Recommended Article*]
- *, co-first author*
180. Ceribelli, A., Satoh, M., and **Chan, E.K.L.** (2012) A new immunoprecipitation-real time quantitative PCR assay for anti-Th/To and anti-U3RNP antibodies detection in systemic sclerosis. Arthritis Res. Ther. 14:R128. PMC3446509
 181. Jung, H.M., Phillips, B.L., Patel, R.S., Cohen, D.M., Jakymiw, A., Kong, W.W., Cheng, J.Q., and **Chan, E.K.L.** (2012) Keratinization-associated miR-7 and miR-21 regulate tumor suppressor reversion-inducing-cysteine-rich protein with kazal motifs (RECK) in oral cancer. J. Biol. Chem. 287:29261-72. PMC3436145
 182. Keppeka, G.D., Nunes, E., Ferraz, M.L.G., da Silva, E.A.B., Granato, C., **Chan, E.K.L.**, and Andrade, L.E.C. (2012) Longitudinal study of a human drug-induced model of autoantibody to cytoplasmic rods/rings following HCV therapy with ribavirin and interferon- α . PLoS ONE 7:e45392. PMC3454395
 183. Yao, B., La, L.B., Chen, Y.C., Chang, L.J., and **Chan, E.K.L.** (2012) Defining a new role of GW182 in maintaining miRNA stability. EMBO Rep. 13:1102-8. PMC23090477
 184. Nahid, M.A., Yao, B., Dominguez-Gutierrez, P.R., Kesavalu, L., Satoh, M., and **Chan, E.K.L.** (2013) Regulation of TLR2-mediated tolerance and cross-tolerance through IRAK4 modulation by miR-132 and miR-212. J. Immunol., 190:1250-63. PMC23264652
 185. Carcamo, W.C., Ceribelli, A., Calise, S. J., Krueger, C., Liu, C., Daves, M., Villalta, D., Bizzaro, N., Satoh, M., and **Chan, E.K.L.** (2013) Differential reactivity to IMPDH2 by anti-rods/rings autoantibodies and unresponsiveness to pegylated interferon-alpha/ribavirin therapy in US and Italian HCV patients. J. Clin. Immunol. 33:420-6. PMC23100146
 186. Laine, A., Sihto, H., Come, C., Rosenfeldt, M.T., Zwolinska, A., Niemelä, M., Khanna, A., **Chan, E.K.L.**, Kähäri, V.-M., Kellokumpu-Lehtinen, P.-L., Sansom, O., Evan, G.I., Junttila,

- M.R., Ryan, K.M., Marine, J.-C., Joensuu, H., and Westermarck, J. (2013) Senescence sensitivity of breast cancer cells is defined by positive feedback loop between CIP2A and E2F1. *Cancer Discov.* 3:182-97. PMC3572190
187. Petri, M.H., Satoh, M., Martin-Marquez, B.T., Vargas-Ramírez, R., Jara, L.J., Saavedra, M.A., Cruz-Gonzalez, C., Andrade-Ortega, L., Vera-Lastra, O., Salazar-Páramo, M., Prieto-Parra, R.M., González-López, L., Gamez-Nava, J.I., Ramírez-Sánchez, H.U., Chan, J.Y.F., Ross, S.J., **Chan, E.K.L.**, Vázquez-Del Mercado, M. (2013) Distinctive characteristics of anti-Mi-2 and -p155/140 autoantibody production in two cohorts of Mexican patients with dermatomyositis. *Arthritis Res. Ther.* 15:R48.
188. Mahler, M., Gascon, C., Patel, S., Ceribelli, A., Fritzler, M.J., Swart, A., **Chan, E.K.L.**, and Satoh, M. (2013) Rpp25 is a major target of autoantibodies to the Th/To complex as measured by a novel chemiluminescent assay. *Arthritis Res. Ther.* 15:R50. PMC3672760
Highly accessed
189. Jung, H.M., Patel, R.S., Phillips, B.L., Wang, H., Reinhold, W.C., Cohen, D.M., Chang, L.J., Yang, L.J., and **Chan, E.K.L.** (2013) Tumor suppressor miR-375 regulates MYC expression via repression of CIP2A coding sequence through multiple miRNA-mRNA interaction. *Mol. Biol. Cell* 24:1638-48. PMC3667718.
190. Agmon-Levin, N., Damoiseaux, J., Kallenberg, C., Sack, U., Witte, T., Herold, M., Bossuyt, X., Musset, L., Cervera, R., Plaza-Lopez, A., Dias, C., José Sousa, M., Radice, A., Eriksson, C., Hultgren, O., Viander, M., Khamashta, M., Regenass, S., Andrade L.E.C., Wiik, A., Tincani, A., Rönnelid, J., Bloch, D.B., Fritzler, M.J., **Chan, E.K.L.**, Garcia-De La Torre, I., Konstantinov, K.N., Lahita, R., Wilson, M., Vainio, O., Fabien, N., Sinico, R.A., Meroni, P., Shoenfeld, Y. (2014) International recommendations for the assessment of autoantibodies to cellular antigens referred to as anti-nuclear antibodies. *Ann. Rheum. Dis.* 73:17-23
191. Dominguez-Gutierrez, P.R., Ceribelli, A., Satoh, M., Sobel, E.S., Reeves, W.H., and **Chan, E.K.L.** (2014) Elevated signal transducers and activators of transcription 1 correlates with increased C-C motif chemokine ligand 2 and C-X-C motif chemokine 10 levels in peripheral blood of patients with systemic lupus erythematosus. *Arthritis Res. Ther.* 16:R20.
192. Dominguez-Gutierrez, P.R., Ceribelli, A., Satoh, M., Sobel, E.S., Reeves, W.H., and **Chan, E.K.L.** (2014) Reduced levels of CCL2 and CXCL10 in SLE patients under treatment with prednisone, mycophenolate mofetil, or hydroxychloroquine, except in a high STAT1 subset. *Arthritis Res. Ther.* 16:R23.
193. Dominguez-Gutierrez, P.R., Ceribelli, A., Satoh, M., Sobel, E.S., Reeves, W.H., and **Chan, E.K.L.** (2014) Positive correlation of STAT1 and miR-146a with anemia in patients with systemic lupus erythematosus. *J. Clin. Immunol.* 34:171-80.
194. Jung, H.M., Phillips, B.L., and **Chan, E.K.L.** (2014) miR-375 activates p21 and suppresses telomerase activity by coordinately regulating HPV E6/E7, E6AP, CIP2A, and 14-3-3 ζ . *Mol. Cancer* 13:80. **Highly accessed**
195. Calise, S. J., Carcamo, W.C., Krueger, C., Yin, J.D., Purich, D.L., and **Chan, E.K.L.** (2014) Glutamine deprivation initiates reversible assembly of mammalian rods and rings. *Cell. Mol. Life Sci.* 71:2963-73.
196. Keppeke, G.D., Satoh, M., Ferraz, M.L.G., **Chan, E.K.L.**, and Andrade, L.E.C. (2014) Temporal evolution of human autoantibody response to cytoplasmic rods and rings structure during anti-HCV therapy with ribavirin and interferon- α . *Immunol. Res.* 60:38-49.

197. Mahler, M., Satoh, M., Hudson, M., Canadian Scleroderma Research Group (CSRG), Baron, M., Chan, J.Y.F., **Chan, E.K.L.**, Wick, J., and Fritzler, M.J. (2014) Autoantibodies to the Rpp25 component of the Th/To complex are the most common antibodies in systemic sclerosis (SSc) patients without antibodies detectable by widely available commercial tests. *J. Rheumatol.* 41:1334-43.
198. Parks, C.G., Miller, F.W., Satoh, M., **Chan, E.K.L.**, Andruschenko, N., Birnbaum, L.S., Jusko, T.A., Kissling, G.E., Patel, M.D., Rose, K.M., Weinberg, C., Zeldin, D.C., and Sandler, D.P. (2014) Reproductive and hormonal risk factors for antinuclear antibodies (ANA) in a representative sample of U.S. women. *Cancer Epidemiol. Biomarkers Prev.* 23:2492-502.
199. Ceribelli, A., Fredi, M., Taraborelli, M., Cavazzana, I., Tincani, A., Selmi, C.F., Chan, J.Y.F., **Chan, E.K.L.**, Satoh, M., Franceschini, F. (2014) Prevalence and clinical significance of anti-MDA5 antibodies in European patients with polymyositis/dermatomyositis. *Clin. Exp. Rheumatol.*, 32:891-7.
200. Peng, B., Lei, N., Chai, Y., **Chan, E.K.L.**, and Zhang, J.Y. (2015) CIP2A regulates cancer metabolism and CREB phosphorylation in non-small cell lung cancer. *Mol. Biosyst.*, 11:105-14.
201. Keppeke, G.D., Andrade, L.E.C., Grieshaber, S.S., and **Chan, E.K.L.** (2015) Microinjection of specific anti-IMPDPH2 antibodies induces disassembly of cytoplasmic rods/rings that are primarily stationary and stable structures. *Cell Biosci.* 5:1.
202. Libório-Kimura, T.N., Jung, H.M., and **Chan, E.K.L.** (2015) miR-494 represses HOXA10 expression and inhibits cell proliferation in oral cancer. *Oral Oncol.* 51:151-7.
203. Jung, H.M., Benarroch, Y., and **Chan, E.K.L.** (2015) Anti-cancer drugs reactivate tumor suppressor miR-375 expression in tongue cancer cells. *J. Cell. Biochem.* 116:836-43.
204. Nahid, M.A., Satoh, M., and **Chan, E.K.L.** (2015) IL-1 β -responsive microRNA-146a is critical for the cytokine-induced tolerance and cross-tolerance to toll-like receptor ligands. *J. Innate Immun.* 7:428-40.
205. Keppeke, G.D., Calise, S.J., **Chan, E.K.L.**, and Andrade, L.E.C. (2015) Assembly of IMPDPH2-based, CTPS-based, and mixed rod/ring structures is dependent on cell type and conditions of induction. *J. Genet. Genomics* 42(6):287-99.
206. Dinse, G.E., Jusko, T.A., Whitt, I.Z., Co, C.A., Parks, C.G., Satoh, M., **Chan, E.K.L.**, Rose, K.M., Walker, N.J., Birnbaum, L.S., Zeldin, D.C., Weinberg, C.R., and Miller, F.W., (2016) Associations between selected xenobiotics and antinuclear antibodies in the National Health and Nutrition Examination Survey, 1999-2004. *Environ Health Persp.* 124:426-36.
207. Uomori, K., Nozawa, K., Ikeda, K., Doe, K., Yamada, Y., Yamaguchi, A., Fujishiro, M., Kawasaki, M., Morimoto, S., Takamori, K., Sekigawa, I., **Chan, E.K.L.**, and Takasaki, Y. (2016) A re-evaluation of anti-NA-14 antibodies in patients with primary Sjögren's syndrome: significant role of interferon- α in the production of autoantibodies against NA-14. *Autoimmunity* 21:1-10.
208. Esfandiary, L., Gupta, N., Voigt, A., Wanchoo, A., **Chan, E.K.L.**, Sukumaran, S., and Nguyen, C.Q. (2016) Single-Cell Antibody Nanowells: a novel technology in detecting anti-SSA/Ro60- and anti-SSB/La-producing B cells in rheumatic disease patients. *Arthritis Res. Ther.*, 18:107.
209. Chukkapalli, S., Rivera-Kweh, M., Gehlot, P., Velsko, I., Bhattacharyya, I., Calise, S.J., Satoh, M., **Chan, E.K.L.**, Holoshitz, J., and Kesavalu, L. (2016) Periodontal bacterial

- colonization in synovial tissues exacerbates collagen-induced arthritis in B10.RIII mice. *Arthritis Res. Ther.* 18:161.
210. Calise, S.J., Purich, D.L., Nguyen, T., Saleem, D.A., Krueger, C., Yin, J.D., and **Chan, E.K.L.** (2016) 'Rod and ring' formation from IMP dehydrogenase is regulated through the one-carbon metabolic pathway. *J. Cell Sci.* 129:3042-52.
211. Harrandah, A., Fitzpatrick, S.G., Smith, M.H., Wang, D., Cohen, D.M., and **Chan, E.K.L.** (2016) MicroRNA-375 as a biomarker for malignant transformation in oral lesions. *Oral Surg Oral Med Oral Pathol Oral Radiol.* 122:743-52.
212. Keppeke, G.D., Prado, M.S., Nunes E., Perazzio, S.F., Rodrigues, S.H., Ferraz M.L.G., **Chan, E.K.L.**, and Andrade, L.E.C. (2016). Differential capacity of therapeutic drugs to induce rods/rings structures in vitro and in vivo and generation of anti-rods/rings autoantibodies. *Clin. Immunol.* pii: S1521-6616(16)30229-7.
213. Noble, J.W., Hunter, D.V., Roskelley, C.D., **Chan, E.K.L.**, and Mills, J. (2016) Loukoumasomes are distinct subcellular structures from rods and rings and are structurally associated with MAP2 and the nuclear envelope in retinal cells. *PLoS ONE*, 11:e0165162.
214. Calise, S.J., Bizzaro, N., Nguyen, T., Bassetti, D., Porcelli, B., Almi, P., Barberio, G., Pesce, G., Satoh, M., and **Chan, E.K.L.** (2016) Anti-rods/rings autoantibody seropositivity does not affect response to telaprevir treatment for chronic hepatitis C infection. *Auto Immun Highlights.* 7:15.
215. Venkatesh, P., Phillippi, J., Chukkapalli, S., Rivera-Kweh, M., Velsko, I., Gleason, T., VanRyzin, P., Aalaei-Andabili, S.H., Ghanta, R.K., Beaver, T., **Chan, E.K.L.**, and Kesavalu, L. (2017) Aneurysm-specific miR-221 and miR-146a participates in human thoracic and abdominal aortic aneurysms. *Int. J. Mol. Sci.* 18:690-6.
216. Dinse, G.E., Parks, C.G., Weinberg, C.R., Meier, H.C.S., Co, C.A., **Chan, E.K.L.**, and Miller, F.W. (2017) Antinuclear antibodies and morbidity in the national health and nutrition examination survey (1999-2004). *PLoS ONE* 12:e0185977.
217. Park, Y.P., Jin, L., Bennett, K.B., Wang, D., Fredenburg, K.M., Tseng, J.E., Chang, L.J., Huang, J., and **Chan, E.K.L.** (2018) CD70 as a target for chimeric antigen receptor T cells in head and neck squamous cell carcinoma. *Oral Oncol.*, 78:145-50.
218. Calise, S.J., Zheng, B., Hasegawa, T., Satoh, M., Isailovic, N., Ceribelli, A., Andrade, L.E.C., Boylan, K., Cavazzana, I., Fritzler, M.J., Garcia de la Torre, I., Hiepe, F., Kohl, K., Selmi, C., Shoenfeld, Y., Tincani, A., **Chan, E.K.L.** and the IUIS Autoantibody Standardization Committee. (2018) Reference standards for the detection of anti-mitochondrial and anti-rods/rings autoantibodies. *Clin. Chem. Lab. Med.*, in press.

Reviews, Editorials, Opinions, and Letters:

1. Tan, E.M., **Chan, E.K.L.**, Sullivan, K.F., and Rubin, R.L. (1988) Antinuclear antibodies (ANAs): Diagnostically specific immune markers and clues towards the understanding of systemic autoimmunity. *Clin. Immunol. Immunopathol.* 47:121-41.
2. **Chan, E.K.L.** and Tan, E.M. (1989) Epitopic targets for autoantibodies in SLE and Sjögren's syndrome. *Curr. Opinion in Rheumatol.* 1:376-81.
3. **Chan, E.K.L.** and Andrade, L.E.C. (1992) Antinuclear antibodies in Sjögren's syndrome. *Rheum. Dis. Clin. North Am.* 18:551-70.

4. Tan, E.M. and **Chan, E.K.L.** (1993) Molecular biology of autoantigens and new insights into autoimmunity. *The Clinical Investigator*, 71:327-30.
5. Imai, H., Kiyosawa, K., **Chan, E.K.L.**, and Tan, E.M. (1993) Autoantibodies in viral hepatitis-related hepatocellular carcinoma. *Intervirology* 35:73-85.
6. **Chan, E.K.L.** and Fritzler, M.J. (1998) Golgins: coiled-coil proteins associated with the Golgi Complex. *Electronic Journal of Biotechnology* (serial online). 1998 Vol. 1(2) Available from URL: <http://www.ejb.org/content/vol1/issue2/full/1>.
7. Zhang, J.Y. and **Chan, E.K.L.** (2002) Autoantibodies to IGF-II mRNA binding protein p62 and overexpression of p62 in human hepatocellular carcinoma. *Autoimmunity Reviews* 1: 146-53.
8. Stinton, L.M., Eystathioy, T., Selak, S., **Chan, E.K.L.**, and Fritzler, M.J. (2004) Autoantibodies to protein transport and messenger RNA processing pathways: endosomes, lysosomes, Golgi complex, proteasomes, assemblyosomes, exosomes and GW bodies. *Clin. Immunol.* 110:30-44.
9. Jakymiw, A., Pauley, K.M., Li, S., Lian, S., Ikeda, K., Eystathioy, T., Satoh, M., Fritzler, M.J., and **Chan, E.K.L.** (2007) Commissioned commentary: The role of GW/P-bodies in RNA processing and silencing. *J. Cell Sci.* 120:1317-23.
10. Nozawa, K., Fritzler, M.J., and **Chan, E.K.L.** (2005) Unique and shared features of Golgi complex autoantigens. *Autoimmunity Reviews* 4:35-41.
11. **Chan, E.K.L.** (2006) Editorial: Ninth International Workshop on Autoantibodies and Autoimmunity. *Autoimmunity Reviews* 5:365-6.
12. Satoh, M., **Chan, E.K.L.**, Sobel, E.S., Kimpel, D.L., Yamasaki, Y., Narain, S., Mansoor, R., and Reeves, W.H. (2007) Clinical implication of autoantibodies in patients with systemic rheumatic diseases. *Expert Rev. Clin. Immunol.* 3:721-38.
13. Pauley, K.M. and **Chan, E.K.L.** (2008) MicroRNAs and their emerging roles in immunology. In: Noel R. Rose (ed), *The Year in Immunology 2008*, Ann. N.Y. Acad. Sci. 1143:226-39.
14. **Chan, E.K.L.**, Satoh, M., and Pauley, K.M. (2009) Editorial: Contrast in aberrant microRNA expression in SLE and RA: Is miR-146 all we need? *Arthritis Rheum.* 60:912-5. PMC2792591
15. Pauley, K.M. Cha, S., and **Chan, E.K.L.** (2009) MicroRNA in autoimmunity and autoimmune diseases. *J. Autoimmunity* 32:189-94. PMC2717629
16. Satoh, M., Vázquez-Del Mercado, M., and **Chan, E.K.L.** (2009) Clinical interpretation of antinuclear antibody tests in systemic rheumatic diseases. *Mod. Rheum.* 19:219-28. PMC2876095
17. Katz, J. and **Chan, E.K.L.** (2009) Commentary: Cell cycle proteins to monitor cancer of salivary glands. *Cancer Biol. Ther.* 8:159-60.
18. Ceribelli, A., Yao, B., Dominguez-Gutierrez, P.R., and **Chan, E.K.L.** (2011) Editorial: Lupus T cells switched on by DNA hypomethylation via microRNAs? *Arthritis Rheum.* 63:1177-81. PMC3201744
19. Ceribelli, A., Yao, B., Dominguez-Gutierrez, P.R., Nahid, M.A., Satoh, M., and **Chan, E.K.L.** (2011) MicroRNAs in systemic rheumatic diseases. *Arthritis Res. Ther.* 13:229. Highly accessed
20. Nahid, M.A., Satoh, M., and **Chan, E.K.L.** (2011) MicroRNA in TLR signaling and endotoxin tolerance. *Cell. Mol. Immunol.* 8:388-403.

21. Ceribelli, A. Nahid, M.A., Satoh, M., and **Chan, E.K.L.** (2011) MicroRNA in rheumatoid arthritis. *FEBS Lett.* 585:3667-74. PMC3168677
22. Satoh, M., Ceribelli, A., and **Chan, E.K.L.** (2012) Common pathways of autoimmune inflammatory myopathies and genetic neuromuscular disorders. *Clin. Rev. Allergy Immunol.* 42:16-25.
23. Satoh, M., Ceribelli, A., and **Chan, E.K.L.** (2012) Role of environmental factors in autoantibody production - importance of a detailed analysis in a small cohort. *Arthritis Res. Ther.* 14:109
24. Ceribelli, A., Satoh, M., and **Chan, E.K.L.** (2012) MicroRNAs and autoimmunity. *Curr. Opin. Immunol.* 24:686–691.
25. **Chan, E.K.L.**, Ceribelli, A., and Satoh, M. (2013) MicroRNA-146a in autoimmunity and innate immune responses. *Ann. Rheum. Dis.* 72:ii90–ii95.
26. Meroni, P.L., **Chan, E.K.L.**, Tincani, A., Garcia de la Torre, I., and Andrade, L.E.C. (2013) Letter: Antinuclear Antibody Test: when to order? *Am. J. Med.* 126:e17.
27. Carcamo, W.C., Calise, S.J., von Mühlen, C.A., Satoh, M., and **Chan, E.K.L.** (2014) Molecular cell biology and immunobiology of mammalian rod/ring structures. *Int. Rev. Cell Mol. Biol.* 308:35-74.
28. Calise, S.J., Keppeke, G.D., Andrade, L.E.C., and **Chan, E.K.L.** (2015) Anti-rods/rings: a human model of drug-induced autoantibody generation. *Front. Immunol.* 6:41. doi: 10.3389/fimmu.2015.00041.
29. Fredenburg, K.M. and **Chan, E.K.L.** (2015) Our journey from the study of human autoantibodies to the microRNA world. *Front. Immunol.* 6:110. doi: 10.3389/fimmu.2015.00110.
30. Satoh, M., Tanaka, S., and **Chan, E.K.L.** (2015) The uses and misuses of multiplex autoantibody assays in systemic autoimmune rheumatic diseases. *Front. Immunol.* 6:181. doi: 10.3389/fimmu.2015.00181.
31. **Chan, E.K.L.**, Damoiseaux, J., Carballo, O.G., Conrad, K., de Melo Cruvinel, W., Francescantonio, P.L.C., Fritzler, M.J., Garcia-De La Torre, I., Herold, M., Mimori, T., Satoh, M., von Mühlen, C.A., and Andrade, L.E.C. (2015) Report of the first international consensus on standardized nomenclature of antinuclear antibody HEp-2 cell patterns 2014-2015. *Front. Immunol.* 6:412. doi:10.3389/fimmu.2015.00412
32. Keppeke, G.D., Calise, S.J., **Chan, E.K.L.**, and Andrade, L.E.C. (2016) Anti-rods/rings autoantibodies generation in hepatitis C patients during interferon- α /ribavirin therapy. *World J Gastroenterol.* 22:1966-74.
33. Fritzler, M.J. and **Chan, E.K.L.** (2016) Dr. Eng M. Tan: a tribute to an enduring legacy in autoimmunity. *Lupus*, Aug 17. pii: 0961203316664598.
34. **Chan, E.K.L.**, Toubi, E., and Conrad, K. (2017) Biomarkers and Pathogenic Mechanisms in Autoimmunity. *Immunol. Res.* 65:296-29.
35. Satoh, M., Tanaka, S., Ceribelli, A., Calise, S.J., and **Chan, E.K.L.** (2017) A comprehensive overview on myositis-specific antibodies: new and old biomarkers in idiopathic inflammatory myopathy. *Clin. Rev. Allergy Immunol.* 52:1-19.
36. Herold, M., Klotz, W., Andrade, L.E.C., Conrad, K., de Melo Cruvinel, W., Damoiseaux, J., Fritzler, M.J., von Mühlen, C.A., Satoh, M., and **Chan, E.K.L.** (2018) International consensus on antinuclear antibody patterns: defining negative results and reporting

unidentified patterns. Clin Chem Lab Med, in press.

37. **Chan, E.K.L.**, and Andrade, L.E.C. (2018) Clarification needed regarding anti-topoisomerase I as a biomarker for non-small cell lung cancer (letter). Ann Thorac Surg, in press.

Book Chapters and Syposium Proceedings:

1. Tan, E.M., Tsay, G.J., and **Chan, E.K.L.** (1987) Antinuclear antibodies with special reference to anti-Sm and anti-U1-RNP. In Mixed Connective Tissue Disease and Antinuclear Antibodies, Kasakawa, R. and Sharp, G.C., editors. Elsevier Science Publishers, p73-84.
2. **Chan, E.K.L.** and Pollard, K.M. (1992) Autoantibodies to ribonucleoprotein particles by immunoblotting. In Manual of Clinical Laboratory Immunology, 4th ed. edited by Rose, N.R., Conway de Macario, E., Fahey, J.L., Friedman, H., and Penn, G.M. American Society for Microbiology Press, Washington, D.C., p755-61.
3. Tan, E.M., Imai, H., and **Chan, E.K.L.** (1993) Autoantibodies as diagnostic markers, probes in cell biology and reporters of cellular activation. In Immunology and Liver, Falk Symposium No.70. edited by Meyer zum Buschenfelde, Hoffnagle, and Manns. Kluwer Academic Publishers, Lancaster, UK. Chapter 18, p145-51.
4. **Chan, E.K.L.** and Buyon, J.P. (1994) The SS-A/Ro antigen. In Manual of Biological Markers of Disease, edited by van Venrooij, W.J., and Maini, R.N. Kluwer Academic Publishers, Dordrecht, The Netherlands, Section B4.1, p1-18.
5. **Chan, E.K.L.** (1994) Basis for heterogeneity of SS-A/Ro autoantigens. In Sjögren's Syndrome: State of the Art. Proceedings of the Fourth International Symposium on Sjögren's Syndrome, Homma, M., Sugai, S., Tojo, T., Miyasaka, N., and Akizuki, M., editors. Kugler Publications, Amsterdam, p125-9.
6. Pollard, K.M., **Chan, E.K.L.**, and Tan, E.M. (1995) Autoimmunity and autoantibodies. In Molecular Biology and Biotechnology, edited by R.A. Meyers. VCH Publishers, New York, p47-50.
7. Pollard, K.M., **Chan, E.K.L.**, Rubin, R.L., and Tan, E.M. (1995) Autoimmunity and autoantibodies. In Encyclopedia of Molecular Biology and Molecular Medicine, edited by R.A. Meyers. VCH Publishers, New York, p84.
8. **Chan, E.K.L.** and Tan, E.M. (1997) Human antibodies and characterization of their target antigens. Cells: A Laboratory Manual, edited by Spector, D.S., Goldman, R., Leinwand, L. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York. Chapter 74.
9. **Chan, E.K.L.** and Pollard, K.M. (1997) Detection of autoantibodies to ribonucleoprotein particles by immunoblotting. In Manual of Clinical Laboratory Immunology, 5th ed. edited by Rose, N.R., Conway de Macario, E., Folds, J.D., Lane, H.C., and Nakamura, R.M. American Society for Microbiology Press, Washington, D.C., Chapter 115, p928-34.
10. **Chan, E.K.L.** and Fritzler, M.J. (1998) Autoantibodies to Golgi Apparatus antigens. In Pathogenic and diagnostic relevance of autoantibodies edited by Conrad, K., Humbel, R.L., Meurer, M., Shoenfeld, Y., Tan, E.M. Pabst Science Publishers, Lengerich, p.85-100.
11. **Chan, E.K.L.** (2000) Autoantibodies in Systemic Rheumatic Diseases and Cancer. Plenary lecture, the 6th Asian Conference of Clinical Pathology, Pusan, Korea.
12. Fritzler, M.J. and **Chan, E.K.L.** (2000) Autoantibodies to Endosomes and the Golgi Complex. In Autoantigens, Autoantibodies, and Autoimmunity edited by Conrad, K., Humbel,

- R-L., Meurer, M., Shoenfeld, Y., Tan, E.M., Vol. 1, Autoantigens and autoantibodies: diagnostic tools and clues to understanding autoimmunity. Pabst Scientific Publishers, Lengerich, Germany. p339-61.
13. Tan, E.M., Zhang, J.-Y., and **Chan, E.K.L.** (2000) Autoantibodies to insulin-like growth factor II mRNA-binding proteins in hepatocellular carcinoma. In *Immunology and Liver*, Falk Symposium No. 114, edited by Manns, M.P., Paumgartner, G., and Leuschner, U. Kluwer Academic Publishers, Lancaster, UK, page 8-15.
 14. **Chan, E.K.L.**, Himoto, T., and Zhang, J.Y. (2002) Autoantibodies in liver diseases and hepatocellular carcinoma. In *Liver Immunology*, edited by M. Eric Gershwin, John M. Vierling, and Michael P. Manns, Hanley and Belfus, Inc., Philadelphia, Chapter 12, p151-69.
 15. **Chan, E.K.L.** (2003) New insights into Sjögren's syndrome: from autoantigens to biology. Novel Cytoplasmic mRNP Compartment – GW bodies. Memorial lecture for Professor Mitsuo Homma.
 16. **Chan, E.K.L.** (2004) Autoantibodies and Pathogenesis. In *China Rheumatology*, 2nd ed. edited by Jiang Ming and David T.Y. Yu. China Press, China. Translated to Chinese. Chapter 5. p104-20.
 17. **Chan, E.K.L.** (2004) Antibodies to SS-A/Ro and SS-B/La. In *Systemic Lupus Erythematosus*, edited by Chen Shun-le and John K.H. Chan. China Science Publishing Co., China. Translated to Chinese. Chapter 7. p207-18.
 18. Fritzler, M.J. and **Chan, E.K.L.** (2004) Antibodies to nonhistone antigens in systemic lupus erythematosus. In *Systemic Lupus Erythematosus*, 4th ed. edited by Robert G. Lahita, Elsevier Science, San Diego, Chapter 13, p349-76.
 19. **Chan, E.K.L.** (2004) Autoantibody target GW bodies – cytoplasmic foci of mRNA decay and regulatory functions. In *Autoantigens, Autoantibodies, Autoimmunity*, Volume 4, Pabst Scientific Publishers, Lengerich, Germany, p203-8.
 20. Zhang, J.Y. and **Chan, E.K.L.** (2005) Tumor specific autoimmune responses - Why and when do they develop? In *Methods, Possibilities and Perspectives of Pre-symptomatic Tumor Diagnostics*. Edited by Conrad, K., Sack, U., and Bachmann, M. Pabst Scientific Publishers, Lengerich, Germany, p35-42.
 21. **Chan, E.K.L.** (2006) Autoantibodies and the cloning and characterization of cellular constituents. In *Autoantibodies and Autoimmunity: Molecular Mechanisms in Health and Disease*. Edited by K. Michael Pollard, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, Chapter 18, p419-46.
 22. **Chan, E.K.L.**, Burlingame, R.W., and Fritzler, M.J. (2006) Detection of autoantibodies using immobilized natural and recombinant autoantigens. In *Manual of Molecular and Clinical Laboratory Immunology*, 7th ed. edited by Detrick, B., Hamilton, R.G., Folds, J.D., American Society for Microbiology Press, Washington, D.C. Chapter 114, p1019-26.
 23. Fritzler, M.J. and **Chan, E.K.L.** (2006) GW bodies, P bodies and components of the microRNA pathway. In *Autoantibodies*, 2nd edition, edited by Shoenfeld, Y., Gershwin, M.E., and Meroni, P.L. Elsevier Science, Chapter 34, p257-62.
 24. Fritzler, M.J. and **Chan, E.K.L.** (2006) Golgi complex and endosome antibodies. In *Autoantibodies*, 2nd edition, edited by Shoenfeld, Y., Gershwin, M.E., and Meroni, P.L. Elsevier Science, Chapter 35, p263-70.
 25. **Chan, E.K.L.**, Peebles, C., Fritzler, M.J., and Satoh, M. (2007) Anti-spliceosomal autoantibodies. In *Systemic Lupus Erythematosus: A Companion to Rheumatology*, edited

- by George C. Tsokos, Caroline Gordon, and Josef S. Smolen. Elsevier Science, San Diego, CA, Chapter 22G.
26. Ikeda, K., Pauley, K.M., Jakymiw, A., Satoh, M., Fritzler, M.J., and **Chan, E.K.L.** (2007) Autoantibodies to key components of RNA interference pathway. In: Conrad, K., **Chan, E.K.L.**, Fritzler, M.J., Sack, U., Shoenfeld, Y., Wiik, A. (eds), *From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Autoantigens, Autoantibodies and Autoimmunity* series. Proceedings 8th Dresden Symposium on Autoantibodies. Pabst Science Publishers, Lengerich, Germany. p168-77.
 27. Fritzler, M.J., Stinton, L.M., and **Chan, E.K.L.** (2007) Autoantibodies to cytoplasmic autoantigens in endosomes, exosomes and the Golgi complex. In: Conrad, K., **Chan, E.K.L.**, Fritzler, M.J., Sack, U., Shoenfeld, Y., Wiik, A. (eds), *From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies. Autoantigens, Autoantibodies and Autoimmunity* series. Proceedings 8th Dresden Symposium on Autoantibodies. Pabst Science Publishers, Lengerich, Germany. Chapter 4, p194-209.
 28. Chan, J.Y.F., Yoshida, H., Mizutani, A., Yamasaki, Y., Li, Y., Bubb, M.R., Sobel, E.S., **Chan, E.K.L.**, Reeves, W.H., and Satoh, M. (2009) Autoantibodies to RNA helicase A as a new serological marker of early SLE. In: K. Conrad, **E.K.L. Chan**, M. Fritzler, RL Humbel, P. von Landenberg, Y. Shoenfeld (eds), *From Pathogenesis to Therapy of Autoimmune Diseases. Autoantigens, Autoantibodies and Autoimmunity* series. Volume 6. Proceedings 9th Dresden Symposium on Autoantibodies. Pabst Science Publishers, Lengerich, Germany, Chapter 10, p95-105.
 29. Carcamo, W.C., Yao, B., Satoh, M., Reeves, W.H., Liu, C., Covini, G., von Mühlen, C.A., and **Chan, E.K.L.** (2009) Cytoplasmic rings/rods as autoimmune targets of emerging human autoantibodies associated with HCV virus infection and interferon therapy. In: K. Conrad, **E.K.L. Chan**, M.J. Fritzler, R.L. Humbel, P. von Landenberg, Y. Shoenfeld (eds), *From Pathogenesis to Therapy of Autoimmune Diseases. Autoantigens, Autoantibodies and Autoimmunity* series. Volume 6. Proceedings 9th Dresden Symposium on Autoantibodies. Pabst Science Publishers, Lengerich, Germany, Chapter 19, p127-34.
 30. Satoh, M., Fritzler, M.J., and **Chan, E.K.L.** (2010) Anti-histone and anti-spliceosomal antibodies. In *Systemic Lupus Erythematosus*, 5th ed. edited by Robert G. Lahita. Academic Press, San Diego, Chapter 16, p275-92.
 31. **Chan, E.K.L.** (2010) Autoantibodies to multiple components of the microRNA pathway and aberrant microRNA expression in autoimmune diseases. In: Jack D. Keene (ed), *Autoantibodies and Autoimmunity*, MBL, Tokyo, Japan, p45-59.
 32. **Chan, E.K.L.**, Ceribelli, A., and Nahid, M.A. (2011) The role of miRNAs in the regulation of immunological functions and the prevention of autoimmunity. In: K. Conrad, **E.K.L. Chan**, M.J. Fritzler, R.L. Humbel, P.L. Meroni, Y. Shoenfeld (eds), *From Prediction to Prevention of Autoimmune Diseases. Autoantigens, Autoantibodies and Autoimmunity* series. Volume 7. Proceedings 10th Dresden Symposium on Autoantibodies. Pabst Science Publishers, Lengerich, Germany, p253-66.
 33. Nozawa, K., Satoh, M., Cha, S., Takasaki, Y., and **Chan, E.K.L.** (2011) Autoantibodies and autoantigens in Sjögren's syndrome. In: R.I. Fox and C.M. Fox (eds), *Sjögren's Syndrome. Practical Guidelines to Diagnosis and Therapy*, Springer, New York, Chapter 9, p111-32.
 34. **Chan, E.K.L.** and Fritzler, M.J. (2013) Introduction – The GW body story as an example of autoantibodies with significant impacts to molecular cell biology. In *Ten years of progress in GW/P body research*, edited by E.K.L. Chan and M.J. Fritzler, Adv Exp Med Biol, 768:1-4.

35. Fritzler, M.J. and **Chan, E.K.L.** (2013) The discovery of GW bodies. In *Ten years of progress in GW/P body research*, edited by E.K.L. Chan and M.J. Fritzler, Adv Exp Med Biol, 768:5-21.
36. Satoh, M., Chan, J.Y.F., Ceribelli, A., Vazquez del-Mercado, M., and **Chan, E.K.L.** (2013) Autoantibodies to Argonaute 2 (Su antigen). In *Ten years of progress in GW/P body research*, edited by E.K.L. Chan and M.J. Fritzler, Adv Exp Med Biol, 768:45-59.
37. Yao, B., Li, S., and **Chan, E.K.L.** (2013) Function of GW182 and GW bodies in siRNA and miRNA pathways. In *Ten years of progress in GW/P body research*, edited by E.K.L. Chan and M.J. Fritzler, Adv Exp Med Biol, 768:71-96.
38. Moser, J.J., **Chan, E.K.L.**, and Fritzler, M.J. (2013) An SNP in the trinucleotide repeat region of the GW182/TNRC6A gene maps to a major TNGW1 autoepitope in patients with autoantibodies to GW182. In *Ten years of progress in GW/P body research*, edited by E.K.L. Chan and M.J. Fritzler, Adv Exp Med Biol, 768:243-59.
39. **Chan, E.K.L.**, Yao, B., and Fritzler, M.J. Reflections on ten years of history of, and future prospects for, GW182 and GW/P body research. (2013) In *Ten years of progress in GW/P body research*, edited by E.K.L. Chan and M.J. Fritzler, Adv Exp Med Biol, 768:261-70.
40. Calise, S.J., Carcamo, W.C., and **Chan, E.K.L.** (2013) Clinical implications of anti-rods and rings autoantibodies in hepatitis C patients treated with interferon/ribavirin therapy. In: K. Conrad, E.K.L. Chan, M.J. Fritzler, R.L. Humbel, P.L. Meroni, Y. Shoenfeld (eds), *Infection, Tumors and Autoimmunity. Autoantigens, Autoantibodies and Autoimmunity* series. Proceedings on the 11th Dresden Symposium on Autoantibodies, Pabst Science Publishers, Lengerich, Germany. 9: 25-32.
41. Ceribelli, A., Satoh, M., and **Chan, E.K.L.** (2014) Antinuclear Antibodies: General Introduction. In *Autoantibodies*, 3rd edition, edited by Shoenfeld, Y., Gershwin, M.E., and Meroni, P.L., Elsevier Science, p129-37.
42. Fritzler, M.J. and **Chan, E.K.L.** (2014) Golgi complex and endosome antibodies. In *Autoantibodies*, 3rd edition, edited by Shoenfeld, Y., Meroni, P.L., and Gershwin, M.E., Elsevier Science, p265-73.
43. Fritzler, M.J. and **Chan, E.K.L.** (2014) Autoantibodies to GW/P bodies and components of the microRNA pathway. In *Autoantibodies*, 3rd edition, edited by Shoenfeld, Y., Meroni, P.L., and Gershwin, M.E., Elsevier Science, p257-63.
44. Satoh, M., Fritzler, M.J. and **Chan, E.K.L.** (2014) Anti-U1RNP and -Sm antibodies. In *Autoantibodies*, 3rd edition, edited by Shoenfeld, Y., Meroni, P.L., and Gershwin, M.E., Elsevier Science, p151-9.
45. Calise, S. J., Carcamo, W.C., Ceribelli, A., Dominguez, Y., Satoh, M., and **Chan, E.K.L.** (2014) Antibodies to Rods and Rings. In *Autoantibodies*, 3rd edition, edited by Shoenfeld, Y., Meroni, P.L., and Gershwin, M.E. Elsevier Science, p161-8.
46. Satoh, M., Chan, J.Y.F., Ceribelli, A., and **Chan, E.K.L.** (2014) Autoantibodies to survival of motor neuron (SMN) complex. In *Autoantibodies*, 3rd edition, edited by Shoenfeld, Y., Meroni, P.L., and Gershwin, M.E., Elsevier Science, p139-44.
47. Satoh, M., Tanaka, S., and **Chan, E.K.L.** (2015) Current status and issues of concern for the diagnostic autoantibody tests. In: K. Conrad, E.K.L. Chan, L.E.C. Andrade, G. Steiner, G.J.M. Pruijn, Y. Shoenfeld (eds), *From Autoantibody Research to Standardized Diagnostic Assays in the Management of Human Diseases* series. Proceedings on the 12th Dresden Symposium on Autoantibodies, Germany, p298-306.

48. **Chan, E.K.L.**, de Melo Cruvinel, W., and Andrade, L.E.C. (2015) The International Consensus on Standardized Nomenclature of Antinuclear Antibody HEp-2 Cell Patterns (ICAP) initiative - Current state and perspectives. In: K. Conrad, E.K.L. Chan, L.E.C. Andrade, G. Steiner, G.J.M. Pruijn, Y. Shoenfeld (eds), *From Autoantibody Research to Standardized Diagnostic Assays in the Management of Human Diseases* series. Report on the 12th Dresden Symposium on Autoantibodies, Germany, p282-288.
49. **Chan, E.K.L.**, Burlingame, R.W., and Fritzler, M.J. (2016) Detection of autoantibodies by enzyme-linked immunosorbent assay and bead assays. In *Manual of Molecular and Clinical Laboratory Immunology*, 8th ed. edited by Detrick, B., Schmitz, J.L., Hamilton, R.G., American Society for Microbiology Press, Washington, D.C., Chapter 88, p859-67.
50. Satoh, M, Ceribelli, A., Hirakata, M., and **Chan, E.K.L.** (2016) Immunodiagnosis of autoimmune myopathies. In *Manual of Molecular and Clinical Laboratory Immunology*, 8th ed. edited by Detrick, B., Schmitz, J.L., Hamilton, R.G., American Society for Microbiology Press, Washington, D.C., Chapter 90, p878-87.
51. Damoiseaux, J., von Mühlen, C.A., Garcia-De La Torre, I., Carballo, O.G., de Melo Cruvinel, W., Francescantonio, P.L.C., Fritzler, M.J., Herold, M., Mimori, T., Satoh, M., Andrade, L.E.C., **Chan, E.K.L.**, and Conrad, K. (2016) International Consensus on ANA Patterns (ICAP): the bumpy road towards a consensus on reporting ANA results. *Auto Immun Highlights*. 7:1.
52. Satoh, M., Fritzler, M.J., and **Chan, E.K.L.** (2016) Anti-histone and anti-spliceosome antibodies. In *Systemic Lupus Erythematosus - A Manual*, edited by Tsokos, G., Academic Press/Elsevier, Chapter 25, p213-21.
53. Conrad, K., Andrade, L.E.C., **Chan, E.K.L.**, Mahler, M., Meroni, P.L., Pruijn, G.J.M., Steiner, G., and Shoenfeld, Y. (2016) From autoantibody research to standardized diagnostic assays in the management of human diseases - Report of the 12 Dresden Symposium on Autoantibodies. *Lupus*, 25:787-96.
54. **Chan, E.K.L.**, Damoiseaux, J., de Melo Cruvinel, W., Carballo, O.G., Conrad, K., Francescantonio, P.L.C., Fritzler, M.J., Garcia-De La Torre, I., Herold, M., Mimori, T., Satoh, M., von Mühlen, C.A., and Andrade, L.E.C. (2016) Report on the second International Consensus on ANA Pattern (ICAP) workshop in Dresden 2015. *Lupus*, 25:797-804.
55. von Mühlen, C.A., Fritzler, M.J., and **Chan, E.K.L.** (2016) Clinical and laboratory evaluation of systemic rheumatic diseases. *McPherson: Henry's Clinical Diagnosis and Management by Laboratory Methods*, edited by Richard McPherson and Matthew Pincus, 23rd edition. Chapter 52. Elsevier, p993-1015.
56. Calise, S.J. and **Chan, E.K.L.** (2017) Advances in the immunobiology of autoantigenic rods/rings structures. In: K. Conrad, E.K.L. Chan, M.J. Fritzler, R.L. Humbel, P.L. Meroni, Y. Shoenfeld (eds), Proceedings on the 13th Dresden Symposium on Autoantibodies, Pabst Science Publishers, Lengerich, Germany, in press.

Editor of Books and Special issues

1. Autoantibodies in Autoimmunity and Cell Biology (1996) Special issue of *Molecular Biology Reports* edited by R.L. Rubin and **E.K.L. Chan**. Volume 23, Issue 3-4, 19 articles, pages 129-267.
2. [From Animal Models to Human Genetics: Research on the Induction and Pathogenicity of Autoantibodies](#) (2004) *Autoantigens, Autoantibodies, Autoimmunity* series, edited by K.

- Conrad, M. Bachmann, **E.K.L. Chan**, M. Fritzler, R.L. Humbel, U. Sack, and Y. Shoenfeld. Volume 4, Pabst Scientific Publishers, Lengerich, Germany.
3. Ninth International Workshop on Autoantibodies and Autoimmunity (2006) Special issue of *Autoimmunity Reviews* edited by **E.K.L. Chan**. Volume 5, Issue 6, 12 articles, pages 365-436.
 4. [From Etiopathogenesis to the Prediction of Autoimmune Diseases: Relevance of Autoantibodies](#) (2007) *Autoantigens, Autoantibodies, Autoimmunity* series, edited by K. Conrad, **E.K.L. Chan**, M.J. Fritzler, U. Sack, Y. Shoenfeld, and A.S. Wiik. Volume 5, Pabst Scientific Publishers, Lengerich, Germany.
 5. [From Prediction to Prevention of Autoimmune Diseases](#) (2011) *Autoantigens, Autoantibodies, Autoimmunity* series, edited by K. Conrad, **E.K.L. Chan**, M.J. Fritzler, R.L. Humbel, P.L. Meroni, and Y. Shoenfeld. Volume 7, Pabst Scientific Publishers, Lengerich, Germany.
 6. [Ten Years of Progress in GW/P Body Research](#) (2013) Edited by **E.K.L. Chan** and M.J. Fritzler. 1st ed. Springer, New York, 276 pages.
 7. [Infection, Tumors and Autoimmunity](#) (2013) *Autoantigens, Autoantibodies and Autoimmunity* series, edited by K. Conrad, **E.K.L. Chan**, M.J. Fritzler, R.L. Humbel, P.L. Meroni, and Y. Shoenfeld. Volume 8, Pabst Science Publishers, Lengerich, Germany.

Abstracts presented at various local, national, and international meetings: total >338.