MINOTI VIVEK APTE

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CURRICULUM VITAE

Name: Minoti Vivek Apte

Nationality: Australian

Degrees: MBBS (Hons), University of Poona, India, 1982

M Med Sci, University of Newcastle, Australia, 1985

PhD, University of New South Wales, Australia, 1998

Present Post and Address: Professor and Presiding Member, Faculty of Medicine

The University of New South Wales
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Membership of Professional Societies:

Gastroenterological Society of Australia

American Gastroenterological Association

American Pancreatic Association

Australasian Pancreatic Club

Asian Oceanic Pancreatic Association

Australian Society for Experimental Pathology

Australian Society for Medical Research

Indian Medical Association

Prizes and/or Awards Received:

- State Prize for 100% marks in Mathematics at the High School Certificate exam, 1974
- University Prizes for Pathology and Preventive & Social Medicine, 1978, 1980
- **Tow Prize** for best research presentation at the Coast Reunion Week held at Prince Henry Hospital, 1993.
- **Postgraduate Research Scholarship**, University of Newcastle, 1983, 1984.
- Travel Award, American Pancreatic Association, 1997.
- **Astra Travel Award** for presentation of paper at annual meeting of the American Gastroenterological Association, 1999.
- Bushell (Postdoctoral) Fellowship, Gastroenterological Society of Australia, 1999-2001.
- Goldstar Maintenance Award, The University of New South Wales, 2003-2004.
- **Hirshberg Foundation Award,** for best research abstract in pancreatic cancer, American Pancreatic Association, 2006.
- Fellow, American Gastroenterological Association, Feb 2011-

Previous Appointments: Intern, Dec 1980-Dec 1981. Sassoon General Hospitals, Poona, India

Junior Resident in Otolaryngology, Sassoon General Hospitals, Pune, India, Jan - Mar 1982. Resigned before coming to Australia.

Research Assistant, Dept. of Histopathology, University of Newcastle, Australia, Jun-Dec 1982

Postgraduate Research Scholar, University of Newcastle, Australia, Jan 1983 - Jan 1985.

Research Assistant, Dept. of Histopathology, University of Newcastle, Australia, Feb - Apr 1985

Research Officer, Dept. of Gastroenterology, Prince Henry & Prince of Wales Hospitals, Sydney, Australia, Mar 1987 - May 1989 (NHMRC project grant, No. 870708 - "Effects of alcohol and protein deficiency on the pancreas")

Research Officer, Dept. of Gastroenterology,

Prince Henry & Prince of Wales Hospitals, Oct 1989 - Feb 1992 (NHMRC project grant, No. 890304 - "Ethanol, lysosomes and pancreatitis").

Research Officer, Dept. of Gastroenterology,

Prince Henry & Prince of Wales Hospitals, Sydney, Australia, March 1992- (NHMRC project grant, No. 920703 - "Effect of ethanol on pancreatic digestive enzyme synthesis")

Research Officer, Dept. of Gastroenterology, Prince Henry & Prince of Wales Hospitals, Sydney, Australia, March 1995-December 1997. (NHMRC project grant, No. 950382 - "Alcohol and the pancreas")

Senior Research Officer (by promotion), Dept. of Gastroenterology, Prince Henry & Prince of Wales Hospitals and The University of New South Wales, Sydney, Australia, Jan 1998 - (NHMRC project grant, No. 980297 - "Pathogenesis of alcoholic pancreatitis"

Senior Research Associate (Bushell Postdoctoral Fellow), The University of New South Wales and Dept. of Gastroenterology, Prince Henry & Prince of Wales Hospitals Sydney, Australia, Jan 1999 – March 2001

Senior Lecturer, SWS Clinical School, Faculty of Medicine, The University of New South Wales, 2001-2005

Associate Professor, SWS Clinical School, Faculty of Medicine The University of New South Wales, 2005-2007

SUMMARY OF RESEARCH EXPERIENCE, SERVICE TO DISCIPLINE AND TEACHING

RESEARCH ACHIEVEMENTS AND MEASURES OF ESTEEM

The theme of my research from the outset has been related to the understanding of the mechanisms responsible for alcohol-induced organ damage, in particular, alcoholic liver and pancreatic injury. In the past few years, my research interests have expanded to include pancreatic fibrogenesis and pancreatic cancer. I assumed **leadership of the Pancreatic Research Group** (as its Director) in early 2001, after serving as an integral member of the Group with a key role in the Group's success in obtaining continuous National Health and Medical Research Council of Australia (NHMRC)/Dept of Veterans' Affairs (DVA) funding since 1987 to a cumulative total of over A\$ 5.4 million (details on pages 23-27).

I have a total of 86 peer-reviewed publications (original articles + reviews + book chapters), 113 abstracts, an h index of 26 and 2103 citations of my work. The average impact factor of the journals I have published since my PhD in 1998 is 7.3. These publications have made significant contributions to current knowledge in the areas of alcohol-related pancreatic injury, pancreatic stellate cell (PSC) pathobiology and pancreatic cancer. PSCs are now firmly established as key effector cells in fibrogenesis in the gland. I believe I have been instrumental in the rapid progress made in the field of pancreatic fibrogenesis over the past 12 years because I was the *first in the world* to develop a method to isolate and culture PSCs (this paper was published in 1998 in Gut, the #2 journal in gastroenterology, and was accompanied by a cover illustration; it has been cited 258 times). This development provided a much needed in vitro tool for the study of PSC biology and led to an explosion in research into pancreatic fibrosis as attested to by the exponential increase in related publications since 1998. The breakthrough with PSCs and the work I have published subsequently has led to an established **international reputation as a leader** in the chronic pancreatitis and pancreatic fibrogenesis field. Our Group is now recognised to be at the cutting edge of research in this area

Recognition of my work both nationally and internationally is attested to by:

- a) the invitations to speak at major international scientific meetings (detailed on page...). These include lectures in USA (the American Pancreatic Association, the American Gastroenterological Association), Germany (the European Society for Biochemical Research on Alcoholism; ESBRA), Mexico (Mexican Digestive Disease Week), India (Indian Pancreas Club), UK (Novartis Foundation Symposium), Sydney (World Congress of the International Society for Biomedical Research into Alcoholism), and Japan (Asian Oceanic Pancreatic Association) (all lectures listed on pages 29-33).
- b) the visits to our laboratory by overseas scientists (USA, Germany, Mexico, Switzerland) for training in PSC methodology
- c) the arrival in late 2005 of a self-funded gastroenterologist from Switzerland to undertake research in our lab and the approaches from scientists in China and India requesting to be part of our Group
- d) the approaches from world renowned researchers in USA (and the subsequent granting) of postdoctoral positions in the United States for my PhD students
- e) the active interest shown by leading researchers in the USA, UK and Germany in collaborating with our Group. In this regard, collaborations have been established with Professor Markus Buchler, University of Heidelberg and Professor Helmut Friess, University of Munich, related to our work on the role of PSCs in the pathogenesis of pancreatic cancer. I have also established a collaboration with

- Professor Stephen Pandol at UCLA this resulted in a publication related to work on NADPH oxidase in PSCs. In addition, I act as an expert advisor to researchers working on PSCs with Dr David Fine, University of Southampton.
- f) the invited membership of Editorial Boards of the journal Pancreas (a prominent journal in pancreatology), the World Journal of Gastroenterology, Pancreatology, Journal of Gastroenterology and Hepatology and the American Journal of Physiology
- g) the invitations to review grant applications for major national and international funding bodies including the NHMRC, the National Medical Research Council (NMRC), Singapore, Wellcome Trust, UK, Cancer Research UK and Auckland Medical Research Council (AMRC), New Zealand and Health Research Council, New Zealand. I have also served on grant review panels (the equivalent of NIH Study Sections) for the NHMRC.
- h) the invitations to review manuscripts for major scientific journals (listed on page 4) as well as PhD theses (University of Sydney, University of Melbourne)
- i) the number of citations (2103 to date) of my work and an h index of 26.

Research Leadership

Evidence of my active leadership in my chosen field of research comes from the following:

A) Leading the direction of research of the Pancreatic Research Group.

I have played a leading role in the direction of research pursued by the Pancreatic Research Group since the completion of my PhD in 1998. As noted earlier, my work with pancreatic stellate cells (during my PhD) brought the Group to the attention of pancreatologists worldwide. Naturally, elucidation of PSC biology has been a prominent part of our work since then. We have made an invaluable contribution to the understanding of the processes mediating the production of fibrosis in the pancreas. Our work has involved i) a detailed characterisation of the morphology of pancreatic stellate cells in quiescence and in their activated phenotype [published in Gut (IF9.34) in 1998 and associated with a cover illustration]; ii) studies of PSC function including proliferation, protein synthesis and migration; iii) studies of the role of PSCs in synthesis and degradation of the extracellular matrix proteins that make up fibrous tissue; iv) studies of the agents/factors that promote PSC quiescence and activation; and v) studies of the signalling mechanisms responsible for mediating PSC activation. We have demonstrated that PSCs are activated by factors such as proinflammatory cytokines and oxidant stress (known to be upregulated during pancreatic injury) and by direct exposure to alcohol and its metabolite acetaldehyde. The latter study was published in Gastroenterology, the top journal in the field (IF 12.9), and again associated with a cover illustration. We have shown that activation of PSCs can be prevented by vitamin A (a compound that is stored by normal, resting PSCs and invariably lost during their transformation to an activated phenotype). This work has also been published in Gut. More recently, we have assessed the role of PSCs in alcoholic pancreatitis. We have developed a novel, physiologically relevant rat model of the disease indicating that bacterial endotoxin may be a trigger factor for the development of alcoholic pancreatitis. This was published in Gastroenterology in 2007. Ongoing studies with this model relating to the important clinical question of reversibility of established chronic pancreatitis have been funded by a 3 year NHMRC project grant (2010-2012). Findings related to this work have recently been accepted for publication in **Gut** (accepted June 2010)

Under my leadership, in addition to our successful work in the area of pancreatitis, our research has expanded to include the pathogenesis of pancreatic cancer and also the study of

basic pancreatic physiology related to the secretion of digestive enzymes by the pancreas. Using an idea that I conceived and developed, we commenced studies on the interactions between stromal cells and pancreatic cancer cells and the influence of such interactions on cancer progression. This is an emerging area of research that has now gained tremendous currency amongst oncology researchers around the world. Epithelial-stromal interactions are being studied extensively in breast and prostate cancer. We were the first to establish that the stromal reaction in human pancreatic cancer was produced by PSCs. We have since shown that human PSCs and cancer cells engage in significant cross-talk and that cancer cells actively recruit PSCs to provide a tumour facilitatory microenvironment. We were successful in obtaining project grant funding from the NH&MRC for this work. Furthermore, my presentation related to this topic was awarded the Hirshberg Foundation Award by the American Pancreatic Association. We have now developed a novel orthotopic model of pancreatic cancer that is more akin to the clinical situation than any animal model published to date, because the pancreatic tumours exhibit both the important components of human pancreatic cancer i.e. tumour elements and a striking stromal reaction. This work has been published in the highly ranked oncology journal Cancer Research (IF 7.543) and selected to feature as a 'highlighted' paper. Our further studies with this model are also the subject of project grants funded by the NSW Cancer Council (2008-2010). Our recent work demonstrating that metastatic potential is not limited to cancer cells alone, but that stromal cells (specifically pancreatic stellate cells) also travel to distant metastatic sites from the primary tumour, has been accepted for publication in the American Journal of Pathology (accepted June 2010).

A third stream of work currently being undertaken by our Group is related to pancreatic physiology, specifically to the role of PSCs in exocrine pancreatic secretion. I was responsible for developing the protocol and writing the grant application for a project that was funded by the Australian Research Council (ARC) as part of its ARC Discovery grant scheme (2007-2009). It is well known that secretion of digestive enzymes by the pancreas is the function of pancreatic acinar cells. The major secretagogue for digestive enzyme secretion is cholecystokinin (CCK, a hormone produced in the small intestine). Intriguingly, it has been shown that human pancreatic acinar cells lack functional receptors for CCK. The prevailing concept is that CCK acts via the vagus nerve which signals to intrapancreatic neurons that secrete the neurotransmitter acetylcholine (ACh), which then acts on the muscarinic receptors on acinar cells to stimulate digestive enzyme secretion. We propose that the pancreatic stellate cell may be the intermediary cell between CCK and acinar cells for exocrine secretion. This is based on the fact that PSCs exhibit markers of neural cells and they are situated in close proximity to acinar cells. Importantly, we have recently shown that PSCs exhibit CCK receptors and respond to CCK via activation of the mitogen activated protein kinase (MAPK) pathway. Furthermore, we have also found that PSCs have the capacity to synthesise acetylcholine since the cells express the ACh synthesising enzyme choline acetyl transferase as well as vesicular acetyl choline transporter, a protein present in the vesicles that transport ACh to the apical membrane of the cells for secretion. Our studies have the potential to significantly change the current concept of exocrine secretion pathways in the pancreas. A manuscript related to this work is currently undergoing revision as requested by the Proceedings of the National Academy of Sciences.

My research and academic standing is reflected in the following:

• invitations to **Editorial Boards** of American Journal of Physiology, Journal of Gastroenterology and Hepatology, Pancreas, Pancreatology and World Journal of Gastroenterology

- invitations to write **reviews**, **editorials and book chapters** on pancreatic disease
- invitations to **review grants** submitted to major funding bodies as outlined earlier
- appointment to the National Health and Medical Research Council Grant Review panels (equivalent to NIH Study Sections) in 2006 and 2007 and to the New Zealand Health Research Council Grant Review panel in 2009.
- invited membership of the abstract selection committees of the American Pancreatic Association, the European Pancreatic Club and the Gastroenterological Society of Australia
- adjudication of scholarship/fellowship applications as a member of the Research Committee of the Gastroenterological Society of Australia (GESA, the premier Society for gastroenterologists in the country) and adjudication of Young Investigator Awards at the annual scientific meeting of GESA
- invitations to **review manuscripts** for major scientific journals in the field including Gastroenterology, Gut, Pancreas, Pancreatology, Biochemical Pharmacology, Journal of Laboratory and Clinical Medicine, American Journal of Physiology, American Journal of Pathology, Free Radical Research, World Journal of Gastroenterology. Journal of Gastroenterology and Hepatology, Laboratory Investigation, Molecular Cancer. I routinely review 1-2 papers per week.
- invitation to be a Founding Member of the Asian Oceanic Pancreatic Association (AOPA) with an active role in drafting its Constitution (see page 10 for details).

B) Fostering of young researchers

I strongly believe that mentoring and encouraging young research talent is one of the primary duties of a senior researcher and I have worked hard towards this goal at every opportunity in my postdoctoral career. I have supervised three PhD students and an Honours student to successful completion. Two of my PhD students were subsequently offered postdoctoral fellowships at the University of Massachusetts largely based on the strength of my reputation in the field. These students have now returned to Australia, having been successful in obtaining competitive Postdoctoral Fellowships - one has re-joined my Group with a Fellowship from the Gastroenterological Society of Australia, while the other has joined A/Prof Maria Kavallaris' group at the Children's Cancer Institute of Australia (CCIA) after being awarded the UNSW Faculty of Medicine Dean's Postdoctoral Fellowship. My third PhD student, a gastroenterologist, has set up his own research laboratory at the University of Geneva. Between 2001 and 2006, two additional students had enrolled for PhD degrees under my supervision, but they had to discontinue their studies for family reasons. Despite the interruption to their candidature, we have been able to publish their work – a paper in Pancreas, a leading specialty journal and one in Cancer Research - indicating that they were making good progress and would have successfully completed their degrees were it not for their difficult family situations.

Currently, I supervise a PhD and a Masters by Research and co-supervise a PhD student working on pancreatic cancer at an UNSW affiliated institute, the Garvan Institute. I believe that my commitment to provide appropriate opportunities and mentorship for young researchers has played a role in the decisions of the above students to work with our Group. It would not be unreasonable to anticipate that these individuals will develop into successful independent researchers in the future.

The new undergraduate medical program at UNSW enables medical students to gain research experience as part of an **Independent Learning Program (ILP)**. I am an enthusiastic supporter of this scheme (I represented the South Western Sydney Clinical School on the Faculty ILP committee for two years) and have **supervised a student** who studied the synergistic role of alcohol and cytokines on pancreatic stellate cells as part of her ILP project. I have also co-supervised another ILP student with Professor Peter McCluskey at the SWS Clinical School. Both students successfully completed the course in March 2008.

C) Initiating collaborative research

I have been responsible for the initiation and implementation of collaborative research with both national and international research groups. A number of the international collaborations arose out of invitations by specific investigators for my input into their work.

National collaborators include Professor Rakesh Kumar, School of Pathology, UNSW, Professor David Goldstein, Department of Oncology, Prince of Wales Hospital, Sydney, Professor Peter McCluskey, Department of Ophthalmology, SWS Clinical School, UNSW, Dr Barry Allen, St George Hospital, Sydney and Dr Grant Ramm, Queensland Institute of Medical Research, Brisbane. These researchers are involved with our work related to pancreatic fibrogenesis and pancreatic cancer.

International collaborators include the world-renowned pancreatic surgeons and researchers Professor Markus Buchler, University of Heidelberg and Dr Helmut Friess, University of Munich, Germany, both of whom are closely involved in our work with stromal interactions in pancreatic cancer. This collaboration has resulted in a publication in Pancreas and both Professors Buchler and Friess are Associate Investigators on our current NHMRC funded grant on pancreatic cancer. At the invitation of Professor Stephen Pandol, VA Medical Center, UCLA, I was involved in the submission of a grant application to the National Institutes of Health (NIH), USA. Our work on the role of NADPH oxidase in PSC activation has been published in Pancreatology (an important specialty journal) this year. Currently, discussions are under way with Dr David Fine, University of Southampton, UK and Professor Ashok Saluja, University of Minnesota, USA for collaborative work with respect to the role of PSCs in pancreatic regeneration and the role of heat shock proteins (HSPs) in alcoholic pancreatic fibrosis respectively.

D) Involvement with UNSW committees related to research policy and research training

I am involved with matters related to research policy and research training at University, Faculty and School levels. I am an elected member of the Academic Board and of the Committee on Research of the Academic Board. I was elected Presiding Member of the Faculty of Medicine for 2008-2009. I also serve on the Higher Degree Committee, the Faculty Research Management Committee, and the Postgraduate Research Students' Subcommittee of the Faculty of Medicine. In addition, I am the Postgraduate Research Coordinator for SWS Clinical School. In each of these roles I am an active contributor to deliberations and discussions related to issues that have the ultimate aim of enhancing the

University's research profile, including strategies to improve the recruitment and retention of high quality research staff, provision of substantial research support at University, Faculty and School levels, updating and implementation of the Code of Conduct for Research and revision of the Postgraduate Research Co-ordinators' Handbook.

E) Involvement with external professional organisations for research enhancement

I am a Founding Member and Past President (2005) of the Australasian Pancreatic Club. This Club, the only one of its kind in Australia, was formed in 2002 as a forum for clinicians and scientists with an interest in clinical and basic research into diseases of the exocrine pancreas. I was responsible for organising the incorporation of the Club and for directing the development of the APC website (www.pancreas.org.au). The APC is now widely recognised by pancreatic associations around the world including the American Pancreatic Association, the European Pancreas Club, the International Association of Pancreatology, the Japan Pancreas Club and the Indian Pancreas Club. Membership of the APC comprises eminent gastroenterologists, surgeons and researchers from Australia, New Zealand, USA, China and Russia. I have had primary responsibility for the organisation of the annual meetings of the APC since its inception. The day-long meeting allows a unique opportunity to discuss current and future research directions in pancreatic pathobiology and to initiate collaborations with research groups around the country. In 2007, under the auspices of the APC, I organised an international meeting on the exocrine pancreas held in Sydney in October.

I serve on the Research Committee of the Gastroenterological Society of Australia (GESA) with responsibilities for adjudicating scholarship and fellowship applications, reviewing abstracts submitted to the Society for its annual meetings and as a member of the judging panel for the Young Investigator Awards presented by GESA. I have also reviewed abstracts for the annual scientific meetings of the American Pancreatic Association and have been elected to the scientific abstract selection committee of the European Pancreatic Club for 2008-2011.

I have been involved with the **founding of the Asian Oceanic Pancreatic Association** (AOPA) with the head office currently based in Japan. I played an active role in drafting the Constitution of the AOPA at its inaugural meeting held in Japan in July 2005. The AOPA has as its charter the fostering of young and upcoming basic scientists and clinicians with an interest in pancreatic pathobiology, particularly from nations in the Asian Oceanic region. A need for such an Association was recognised by the fact that most of the 'pancreatic' organisations were located in the developed world and participation from Asian countries at their meetings was often limited. The significant geographic differences of pancreatic disease patterns and aetiology in different Asian countries (compared to the West) was another rationale underpinning the formation of this new Association. AOPA is committed to enhancing and fostering research and education in all aspects of pancreatology via the conduct of biennial scientific meetings, fellowships and collaborative programming.

I was invited to serve on the **membership committee of the International Society of Biomedical Research** into Alcoholism (ISBRA) and was the **organiser and co-chair of a symposium** entitled "Alcohol-Induced Fibroproliferative Diseases" at the ISBRA World Congress, Sydney, September 2006.

Future Directions of Research

In view of our international standing at the cutting edge of research in pancreatitis and pancreatic fibrogenesis, our future directions in the short-term are linked to the elucidation of the three primary areas of PSC biology (role in chronic pancreatitis, role in pancreatic cancer and role in pancreatic secretion). Each of these projects is funded by the NH&MRC / ARC / NSW Cancer Council and with the novel findings obtained in these fields we are confident of future applications to major funding bodies.

Importantly, I anticipate significant expansion of our research efforts with the existing and new collaborations with national and international colleagues. With the return of Dr Phoebe Phillips (who completed a PhD under my supervision and then moved to the United States for two years to work as a postdoctoral fellow with Professor Saluja, University of Massachusetts and University of Minnesota) to our Group, plans are under way to set up a new collaborative project with Professor Saluja regarding the role of heat shock proteins in pancreatic disease, particularly with respect to alcohol-induced pancreatitis and fibrogenesis using relevant transgenic mouse models. Phoebe's work in this area during her postdoctoral fellowship forms the platform for these studies. Discussions are also in train with Dr David Fine, University of Southampton, UK, with respect to studies assessing the role of PSCs in pancreatic regeneration and repair. Support from grants from the NSW Cancer Council ensures continued collaboration with A/Prof Andrew Biankin (a pancreatic surgeon and researcher based at the Garvan Institute) and Professor David Goldstein (an oncologist at Prince of Wales Hospital) to characterise the genetic make-up of cancer-associated stromal cells and to identify pathways mediating epithelial-stromal interactions in pancreatic cancer and their role in cancer progression. It is anticipated that these studies will lead to identification of potentially useful therapeutic targets that will be initially assessed in animal models and may inform future clinical trials.

SERVICE

I have been actively involved in a significant number of service activities both within and outside the University, all of which indicate my serious commitment to making a worthwhile contribution to the University and the profession. Furthermore, I have proactively taken on leadership roles at every presented opportunity (these have been detailed under Research Leadership, pages 3-6). Below is a summary of my involvement related to service at University, Faculty and School levels as well as my work with professional organisations outside the University.

University Level

2003 – current: **Academic Board** - this principal academic body of the University meets monthly to deliberate/discuss issues pertaining to academic policy and academic proposals. It plays a major role in coordinating the work of all faculties within UNSW and in fostering teaching, scholarship and research. I consider it important to voice my opinions on various issues being discussed by the Board, particularly those related to research policy and training.

2003 – current: **Committee on Research** – this Standing Committee of the Academic Board meets monthly. Its brief is to encourage research and research training and

to advise the Board on research policy and strategies to enhance research within the University.

2002 - 2006 Member,

2007 – Mar 2008 Deputy Presiding Member, UNSW Animal Care & Ethics

Committee (ACEC)

Presiding Member of Committee B of the ACEC – meets monthly to evaluate applications for the appropriate and ethical use of animals in research. This is an extremely busy committee with an ever-increasing workload. A total of 713 applications have been reviewed during my time with the Committee. I am responsible for chairing and running the meeting of Committee B and for the oversight of the discussions and decisions made by Committee on the applications. Members of the ACEC are also responsible for inspecting all UNSW affiliated animal facilities twice a year to ensure compliance with the code of conduct for animal research. Currently, with the Presiding Member, A/Professor Michael Beal, I am responsible for advising and aiding the development and implementation of an **online ethics application** and decision process being undertaken by a working party convened by the DVC Research, Professor Les Field.

2005 – 2007 University Promotions Committee (UPC) for Associate Professor Promotions – meets annually for a day long meeting to consider University wide applications for promotion to Associate Professor, after the applications have been discussed at individual Faculty Promotions Committees. Typically, UPC members would have to review, rank and comment on 60-70 applications per meeting, an undertaking that involves a significant time commitment prior to the meeting.

Faculty Level

2008 - **Presiding Member, Faculty of Medicine** – responsible for oversight of academic issues related to the Faculty including the teaching curriculum (undergraduate and postgraduate courses) and research (higher degree research students, chairing the Higher Degree Committee). I also chair the Faculty Standing Committee and the Faculty Board.

2002 – current **Higher Degree Committee** – meets monthly to discuss matters pertaining to postgraduate studies within the Faculty of Medicine. As Postgraduate Research Co-ordinator for the South Western Sydney Clinical School, I report to the Committee on postgraduate student reviews and progress, supervisor and/or student grievances, enrolments, admissions and successful completions.

2004 – current **Postgraduate Research Students Subcommittee** – meets quarterly to discuss issues related to postgraduate research students including, among others, enrolments/admissions, research support, quality of supervision and grievance counselling. I am also responsible for assisting with the organisation of the Postgraduate Research Day held annually by the Faculty and for the adjudication of poster presentations by postgraduate students for Faculty awards on the day.

2005 – current **Faculty Research Grants Management Committee** – meets quarterly to discuss research support strategies for early career researchers as well as established research groups within the Faculty. As a member of this Committee, I am also

responsible for reviewing grant applications submitted to the Faculty for Faculty Research Grants and early career research grants.

2006 – 2007 **Independent Learning Program Committee** – meets once in two months to oversee and discuss the ILP program of the New Medicine Curriculum. Members review ILP projects submitted by prospective supervisors, discuss student issues related to the program (with respect to supervision, ethics approvals, infrastructure, access to adequate facilities etc), and calibrate external assessment of ILP project reports.

2003 – current: **Interviewer for prospective medical students** – I have regularly participated in these interview sessions forming one of the components for admission of students to the medicine course. Each two hour interview is conducted in partnership with a non-medical interviewer.

School Committees

2001 – current **Postgraduate Research Co-ordinator, SWS Clinical School** – in this role I am responsible for i) overseeing the enrolments of Masters and PhD students; ii) assessments of student progress via annual reviews; iii) organisation of postgraduate research seminars; iv) providing advice regarding facilities and support available to students to facilitate their studies; and v) providing advice to students about appropriate procedures for grievance resolution. I am also responsible for proposing and implementing appropriate courses for research students such as the Masters Qualifying Program that prepares students with a Bachelor's degree for enrolment in a Masters by Research course.

2001 – current Clinical School Advisory Group – comprises the Clinical Dean, Directors of Medical Student Education, Postgraduate Research Co-ordinator, Executive Officer and General Manager of SWS Clinical School. This Group meets weekly. I am responsible for informing and advising the Clinical Associate Dean in matters relating to postgraduate studies and ILP students at the School.

2002 – 2007 Clinical School Executive – this body provides an interface between the Faculty of Medicine, UNSW and Area Administration, Sydney South West Area Health Service in the development and implementation of all aspects of undergraduate and postgraduate medical education. The CSE met second monthly. I was responsible for providing a report at each meeting outlining the status of and any issues/concerns relating to the ILP component of the undergraduate medical curriculum and to postgraduate studies at the School.

Professional Organisations

2002 – current Founding Member and Past President, Australasian Pancreatic Club (APC) - my involvement and role with the APC are detailed on page 10.

2007 **Co-Chair, Organising Committee, Pancreas in Paradise** meeting – this meeting was held under the auspices of the Australasian Pancreatic Club. It was the first of its kind in Australia, bringing to our shores world-renowned researchers and clinicians in pancreatology (Attachment C). I was responsible for driving all aspects of the organisation of this meeting including inviting and securing agreements from international and national

speakers, conducting sponsorship drives, booking the conference venue, developing and distributing publicity material and developing the scientific programme.

2005 – current **Founding Member, Asian Oceanic Pancreatic Association** – my activities related to this Association are detailed on pages 10-11.

2007 - current Member, Abstract Selection Committee, American Pancreatic Association; Elected Member, Abstract Selection Committee, European Pancreatic Club

2001 – current Member, Editorial Boards of leading journals in the field including American Journal of Physiology (2009 onwards), Journal of Gastroenterology and Hepatology (2009 onwards), World Journal of Gastroenterology (2005 onwards), Pancreas (2001 onwards) and Pancreatology (2009 onwards)

1992 - current Member, Gastroenterological Society of Australia (GESA)
2005 - current Member, Research Committee, GESA - GESA is the premier body in Australia for clinicians and scientists with gastroenterological interests. My role with this organisation is detailed on page 10.

2006 – 2007 **Member, Grant Review Panel, National Health and Medical Research Council.** I have had responsibility as primary and secondary spokesperson for up to 15 grants a year; this involves writing reviews on the applications, appointing external independent assessors for each grant, collating the response of applicants to reviewers' comments and presenting/leading the discussion on these grants at the GRP meetings. As a Panel member I also have to review all other grant applications allocated to the Panel (approximately 60-70 per year) and contribute to the discussion of these applications at the GRP meetings.

2001 – current **Reviewer of grants for major funding bodies** - I have reviewed project grant applications and fellowship applications for major national and international funding bodies including the NH&MRC, the Wellcome Trust, UK, Cancer Research, UK, Auckland Medical Research Council, New Zealand and the National Medical Research Council, Singapore.

Member, Strategic Research Partnership (STREP) Grants Review Committee, NSW Cancer Council – this Committee reviewed and adjudicated upon applications submitted to the NSW Cancer Council with a view to setting up partnership projects with the Council. The major aim of the STREP initiative is to identify, publish and procure cancer research priorities. It is anticipated that these projects will enable the development of highly effective translational research groups and accelerate the progress of policy and practice focused research on cancer in NSW.

TEACHING

Relative to opportunity, I have made a sustained contribution to teaching at the University. My postgraduate teaching in terms of **supervision of PhD, Masters and a BScMed Honours student** and my work as the **Postgraduate Co-ordinator for SWS Clinical School** has been detailed earlier. As noted above, the location of our Group at a hospital campus remote from the main University campus until late 2005, necessarily limited the opportunities for recruitment of Honours and higher degree students. It also meant fewer opportunities to become involved in undergraduate teaching.

However, since the Group's relocation to the University campus, I have accepted all offered opportunities for undergraduate teaching. In this regard, I have been a **Facilitator for the Health Maintenance course in 2006 and the Foundations course in 2007**. This involved 4 hours of face-to-face interaction per week, one hour per week of facilitator group meetings, additional preparation time for the weekly facilitation sessions as well as the marking of individual assignments and group projects. In addition to facilitation, I have been involved with the **Independent Leraning Program (ILP) component of the medical curriculum**, via supervision / co-supervision of two current ILP students and membership of the ILP committee.

List of Publications:

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- 2. Bhagwandeen SB, **Apte M**, Banathy L . Alcohol related hepatic lesions in young victims of road traffic accidents in Australia. IRCS Medical Sciences 13: 985 986, 1985.
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- 72. P Phillips, L Yang, A Shulkes, Poloak A, Bustamante S, A Vonlaufen, ZH Xu, A Warren, M Guilhaus, R Pirola, **M Apte***, J Wilson*. *Equal senior authors. Pancreatic stellate cells synthesise and secrete acetylcholine: a possible role in pancreatic exocrine secretion. Proceedings of the National Academy of Sciences, 107(40):17397-402, 2010.
- 73. Apte M, Pirola RC, Wilson JS. Mechanisms of alcoholic pancreatitis. Journal of Gastroenterology and Hepatology, 25(12):1816-26,2010.
- 74. Z Xu, A Vonlaufen, P Phillips, Ea Fiala-Beer, X Zhang, L Yang, A Biankin, D Goldstein, RC Pirola, JS Wilson, **MV Apte**. Role of pancreatic stellate cells in pancreatic cancer metastasis. American Journal of Pathology, 177:2585-96, 2010.
- 75. **M Apte**, R Pirola, J Wilson. The Fibrosis of Chronic Pancreatitis: New Insights into the Role of Pancreatic Stellate Cells. Antioxidants and Redox Signalling, in press, accepted May 2010.
- 76. A Vonlaufen, P Phillips, Z Xu, X Zhang, L Yang, RC Pirola, JS Wilson, **MV Apte**. Withdrawal of alcohol promotes regression while continued alcohol intake promotes persistence of LPS-induced pancreatic injury in alcohol-fed rats. Gut. 2010 Sep 24. [Epub ahead of print] PMID: 20870739

Book Chapters:

- 1. **Apte MV**, Wilson JS. "Alcohol Studies in the Pancreas" in Methods in Pancreatic Research, Lerch M, Senninger N (eds), Springer-Verlag, 1999.
- 2. **Apte MV**, Wilson JS. "Experimental models of pancreatic fibrogenesis and the role of stellate cells" in Chronic Pancreatitis Novel Concepts in Biology and Therapy, Buchler M, Friess H, Uhl W, Malfertheiner P (eds), Blackwell Science, pp 113-133, 2002.
- 3. **Apte MV**, Wilson JS. Chronic pancreatitis: How and why is fibrosis initiated? In Controversies in Pancreatology, Permert J, Herrington M, Adrian TE (eds), Crlsson Communications, pp. 80-92, 2003.
- 4. **Apte MV,** Wilson JS. "What's new in pancreatic stellate cell biology?" In Pancreatic Disease, Johnson C, Imrie C (eds), Springer-Verlag 17:201-225, 2003.
- 5. **Apte MV**, Wilson JS. Experimental models of pancreatic fibrogenesis. FALK Symposium Proceedings, October 2004.
- 6. **Apte MV**, Pirola RC, Wilson JS. Molecular mechanisms of alcoholic pancreatitis in "Alcohol and the Gastrointestinal Tract" Eds Manfred V. Singer, David Brenner, Karger Basel, pp 122-138, 2006.
- 7. **Apte MV,** Pirola RC, Wilson JS. Acetaldehyde and pancreatic MAP Kinases in "Acetaldehyde related pathology: bridging the trans-disciplinary divide". Eds Chadwick DJ, Goode J, Wiley, UK, pp200-211, 2007.
- 8. **Apte MV**, Pirola RC, Wilson JS. Etiopathogenesis and epidemiology of alcohol-induced pancreatitis in The Pancreas 2nd edition. Eds Beger H, Rau B, Lerch M, Wiley, UK, pp 143-153, 2009.
- 9. **Apte MV,** Pirola RC, Wilson JS. Desmoplasia in pancreatic cancer: friend or foe? In "Surgery of Pancreatic Tumors" Eds Shrikhande S, Friess H, Buchler M, BI Publications, New Delhi, pp 30-40, 2008.
- 10. Rupert WL Leong, **Minoti V Apte**, Jeremy S Wilson. <u>Chronic Abdominal Pain</u>. In: Pocketbook of Gastroenterology. 2004 1st Ed. Talley, Weltman, Churchill Livingstone, Sydney, pp 125-136, 2008.

Research Income:

Total Grant Funding to date:

\$5,756,773

Project Title and Chief Investigators	Funding Body	Year commenced	Duration	Total Amount
Genotype guided cancer therapy (Genomic theragnostics) PIs: A Biankin, S Grimmond, M Apte, D Goldstein, S Clarke, J Kench, J Samra, V Gebski, J Wu, S Mead, L Horvath	NSW Cancer Council Strategic Research Partnership Grant	2011	5 years	\$1,500,000
Salary for Senior Research Co- ordinator, Ingham Health Research Institute, Liverpool PIs: M Apte, P McNeil	UNSW MAJOR RESEARCH EQUIPMENT AND INFRASTRUCTURE INITIATIVE	2011	1 year	\$99,500
Applied Biosystems® ViiA7 Real-Time PCR System PIs: P Phillips, M Apte , K Bryant, P McNeil	UNSW MAJOR RESEARCH EQUIPMENT AND INFRASTRUCTURE INITIATIVE	2011	1 year	\$115,000
Guava® easyCyte TM 8HT Flow Cytometry System (Millipore Australia PIs : K Bryant, P McNeil, P Phillips, M Apte	UNSW MAJOR RESEARCH EQUIPMENT AND INFRASTRUCTURE INITIATIVE	2011	1 year	\$95,250
Alcoholic chronic pancreatitis: induction, progression and reversal PIs: MV Apte, JS Wilson, R Pirola, R Kumar, P Phillips	NHMRC	2010	3 years	\$609,500

Project Title and Chief Investigators	Funding Body	Year commenced	Duration	Total Amount
Accessing the third dimension in scanning electron microscopy for rapid, high resolution tomography of large samples Z Liu, S Perrier, YW Mai, PM Young, S Bandyopadhyay, FC Braet, RP Burford, GDHousley, MV Apte, P Thordarson	ARC LIEF	2011	1	250,000
Hitting the right target: use of growth factor inhibitors to inhibit stromal-epithelial interactions in pancreatic cancer. PIs: MV Apte, D Goldstein, JS Wilson, R Pirola	NSW Cancer Council	2009-2010	2 years	\$100,000
Alcoholic pancreatitis: induction, progression and reversion PIs: M Apte, J Wilson, R Pirola	Alcohol Health and Research Grants Scheme	2009	1 year	\$25,000
Aperio Scan Scope Virtual Slide Scanner for collaborative cancer histopathology" N Hawkins, R Ward, MV Apte, P Russell W Sewell	Cancer Institute of New South Wales Equipment Grant	2009	1 year	\$300,000

Project Title and	Funding Body	Year	Duration	Total
Chief Investigators	•	commenced		Amount
Growth factor receptor inhibitors: potential therapeutic agents in pancreatic cancer" PIs: MV Apte, D Goldstein, JS Wilson, R Pirola,	Amgen Incorporated	2009	1 year	\$148,433
Desmoplasia in pancreatic cancer: role of pancreatic stellate cells in cancer progression. MVApte, JS Wilson, D Goldstein, A Biankin, RC Pirola.	NSW Cancer Council	January 2008	3 years	\$300,000
Alcoholic pancreatitis: role of alcohol, endotoxin and pancreatic stellate cells". MV Apte, JS Wilson, R Pirola	NH&MRC Project Grant	January 2007	3 years	\$482,000
Do pancreatic stellate cells play a role in exocrine pancreatic secretion? MV Apte, AS Shulkes, JS Wilson. R Pirola.	ARC Discovery Project Grant	January 2007	3 years	\$263,000
Postdoctoral Research Fellowship, Phillips P. Primary supervisor: MV Apte	Gastroenterological Society of Australia	May 2007	3 years	\$195,000
Tri-Carb Liquid Scintillation Counter. Burcher E, Jessup W, Brown A, Dawes I, Khachigian L, Apte M, Finch A.	NH&MRC Equipment Grant	2007	N/A	\$30,000

Project Title and Chief Investigators	Funding Body	Year commenced	Duration	Total Amount
NSW Pancreatic Cancer Network (NSWPCN). A Biankin, J Kench, D Goldstein, R Smith, M Apte, G Smith	NSW Cancer Council Strategic Research Partnership Grant	January 2006	5 years	\$1,250,000
Epithelial-stromal interactions in the pathogenesis of pancreatic cancer: role of pancreatic stellate cells. MV Apte, JS Wilson, D Goldstein, R Kumar, R Pirola	NH&MRC Project Grant	January 2005	3 years	\$419,750
Spectrophotometer Nanodrop analyser for DNA. Geczy C, Lloyd A, Tedla N, Apte M , Harvey C, Hsu K	NH&MRC Equipment Grant	2005	N/A	\$12,000
Alcohol and pancreatic stellate cells. MV Apte , JS Wilson, R Kumar, R Pirola	NH&MRC / Department of Veterans' Affairs Project Grant	January 2004	3 years	\$190,500
Alcohol-induced pancreatic fibrosis: role of vitamin A, alcohol and pancreatic stellate cells. MV Apte, JS Wilson	Australian Brewers' Foundation	January 2004	1 year	\$31,833
Alcohol, vitamin A and pancreatic stellate cells. MV Apte, JS Wilson	Health Research Foundation, Sydney South West	January 2003	1 year	\$25,000
Role of pancreatic stellate cells in the pathogenesis of pancreatic cancer. MV Apte	Goldstar Award, UNSW	January 2003	2 years	\$50,000

Project Title and Chief Investigators Tumour-epithelial interactions in the pathogenesis of	Funding Body UNSW Faculty Research Grants Program	Year commenced January 2003	Duration 1 year	Total Amount \$20,000
pancreatic cancer. MV Apte, JS Wilson	Trogram			
Signalling pathways mediating pancreatic stellate cell activation. MV Apte, JS Wilson	Health Research Foundation, Sydney South West	January 2002	1 year	\$23,000
The Role of Pancreatic Stellate Cells in the Pathogenesis of Pancreatic Cancer". MV Apte, JS Wilson	Health Research Foundation, Sydney South West	January 2001	1 year	\$20,000
Role of Pancreatic Stellate cells in the Pathogenesis of Alcohol-Induced Pancreatic Fibrosis. JS Wilson, MV Apte, R Kumar, R Pirola	NH&MRC / Department of Veterans' Affairs Project Grant	January 2001	3 years	\$390,000
Stellate cells and alcoholic pancreatic fibrosis. MV Apte , JS Wilson, RC Pirola	Australian Brewers' Foundation	January 2000	1 year	\$29,000
Bushell Postdoctoral Fellowship, MV Apte	Gastroentero- logical Society of Australia	January 1999	3 years	\$192,000
Pathogenesis of alcoholic pancreatic fibrosis. JS Wilson, RC Pirola, MV Apte, PS Haber	Clive and Vera Ramaciotti Foundations Equipment Grant	1998	N/A	\$15,000

Project Title and Chief Investigators	Funding Body	Year commenced	Duration	Total Amount
Pathogenesis of alcoholic pancreatic fibrosis. JS Wilson, RC Pirola, MV Apte, P Haber	Australian Associated Brewers' Association	January 1998	1 year	\$33,400
Pathogenesis of alcoholic pancreatitis. JS Wilson, MV Apte, P Haber, G McCaughan	NH&MRC Project Grant	January 1998	3 years	\$301,332
Pancreatic Ethanol Metabolism: a new approach to the pathogenesis of alcoholic pancreatitis. PS Haber, JS Wilson Co-investigators: RC Pirola, MV Apte	Clive and Vera Ramaciotti Foundations Equipment Grant	1996	N/A	\$10,000
How does alcohol damage the pancreas? PS Haber. Associate investigators: JS Wilson, RC Pirola, MV Apte, G Keogh	NH&MRC Project Grant	January 1996	3 years	\$126,750
Effects of ethanol on pancreatic digestive enzyme synthesis. JS Wilson, RC Pirola. Co-investigator: MV Apte	Ramaciotti	1993	N/A	\$10,000

Supervision of Research Students:

Name	Degree	Year commenced	Year completed	Supervision
Joshua McCarroll	PhD	March 2001	March 2005	Primary
Phoebe Phillips	PhD	January 2001 (P/T)	March 2005	Primary
Sandra Park	PhD	January 2001	Student discontinue d in 2003 due to family reasons	Co-Supervisor
Swapna Joshi	PhD	March 2005	Student discontinue d in 2006 due to family reasons	Primary
Emily Colvin	PhD	January 2006	Ongoing	Co-supervisor
Alain Vonlaufen	PhD	January 2007	May 2009	Primary
Zhihong Xu	PhD	August 2007 (P/T)	Ongoing	Primary
Susan Yang	Masters by Research	July 2007 (P/T)	Ongoing	Primary
Peter Mews	BSc Med (Hons)	January 1999	January 2000	Day to day supervision of experimental protocol, supervision of thesis writing and presentations

Invited Lectures

International Conferences:

- 1. "Regulation of pancreatic stellate cells and pancreatic fibrosis." American Pancreatic Association Meeting, Chicago, USA, November, 1999.
- 2. "Role of pancreatic stellate cells in alcoholic pancreatic fibrosis." International symposium on "Development, fibrosis and transformation in the pancreas", University of Ulm, Germany, July, 2000.
- 3. "Stellate cells and alcoholic pancreatic fibrosis". International symposium on "The mechanism of pancreatitis between bedside and laboratory", Japan Pancreas Society, Kitakyushu, July, 2001.
- 4. "What's new in pancreatic stellate cell biology?" International symposium "Pancreatic Disease 2001", 3rd Joint Southampton/Glasgow Meeting, Southampton, October, 2001.
- 5. "Stellate cell activation in alcoholic pancreatitis" NIAAA Symposium on Mechanisms of Alcoholic Pancreatitis, Chicago, USA, November 2002.
- 6. "The Drinker's Pancreas: molecular mechanisms of alcoholic pancreatitis". Symposium, European Society of Biomedical Research into Alcoholism, Prague, September 2003.
- 7. "Ethanol induced acinar cell injury" Symposium on Signal Transduction in Alcohol Related Diseases, 12th World Congress Biomedical Alcohol Research, Heidelberg, Germany, September 2004.
- 8. "What's new in pancreatic fibrosis?" Colloquium Pancreatologicum, University of Rostock, October 2004.
- 9. "Stellate cells and inflammation Pancreas" FALK Symposium, Freiburg, Germany, October 2004.
- 10. "Desmoplastic reaction in pancreatic cancer: friend or foe?" Department of Cancer Biology's Seminar Series, MD Anderson Cancer Center, Houston, May 2005.
- 11. "Pancreatology in Ausralia : current clinical practice and research" Inaugural International Meeting of the Asian Oceanic Pancreatic Association, Tokyo, July 2005.
- 12. "Does acute pancreatitis evolve into chronic pancreatitis: histopathological perspective" National Conference on Pancreatic Diseases, Indian Pancreas Club, New Delhi, August 2005.
- 13. "Desmoplasia in pancreatic cancer" National Conference on Pancreatic Diseases, Indian Pancreas Club, New Delhi, August 2005.
- 14. "Pancreatic stellate cells and fibrosis" National Conference on Pancreatic Diseases, Indian Pancreas Club, New Delhi, August 2005.

- 15. "Epithelial-stromal interactions in the pathogenesis of pancreatic cancer" Symposium on Inflammation and Fibrosis, Mexican Digestive Disease Week, Mexico City, November 2005.
- 16. "The battle-scarred pancreas: Role of alcohol and pancreatic stellate cells" The First International Symposium on Alcoholic Liver and Pancreatic Diseases, Los Angeles, to be May 2006.
- 17. "Pancreatic stellate cell signalling". AGA Research Symposium, Annual Meeting of the American Gastroenterological Association, May 2006.
- 18. "Acetaldehyde and pancreatic MAP kinases". Novartis Foundation Symposium Acetaldehyde-related pathology bridging the trans-disciplinary divide, September 2006.
- 19. "Desmoplastic reaction in pancreatic cancer: friend or foe? World Congress of the International Society for Biomedical Research into Alcoholism, September 2006.
- 20. "What's new in alcoholic pancreatic fibrosis role of pancreatic stellate cells". World Congress of the International Society for Biomedical Research into Alcoholism, September 2006.
- 21. "Pleasure today, pain tomorrow: alcohol and chronic pancreatitis". Symposium on Alcohol and the Pancreas, American Pancreatic Association and International Association of Pancreatology Joint Meeting, November 2006.
- 22. "Alcohol and the Pancreas" Symposium on Alcohol and Organ Damage, European Society for Biomedical Research into Alcoholism, September 2007.
- 23. "Exocrine pancreatic secretion-turning the current concept on it's head" Symposium on Pancreatology: what are the next big advances? Pancreas in Paradise, the annual meeting of the Australasian Pancreatic Club, October 2007.
- 24. "Pathogenesis of alcohol-induced pancreatic disease" 3rd International Symposium on Alcoholic Liver and Pancreatic Diseases and Cirrhosis, Bilbao, Spain July 2008.
- 25. "Pancreatic stellate cells: major players in alcoholic pancreatitis and pancreatic cancer" Symposium on Alcohol, Signaling and ECM turnover, Joint 2008 International Society for Biomedical Research into Alcoholism(ISBRA)/RSA, June 2008.
- 26. Pancreatic stellate cells in chronic pancreatitis and cancer." The APA Lustgarten Symposium on the Chronic Pancreatitis to Pancreatic Cancer Continuum, American Pancreatic Association meeting, Chicago, USA, November 2008.
- 27. "Scrambled signalling in the pancreas effects of ethanol and its metabolites." Annual Meeting of the Research Society on Alcoholism, San Diego, USA, June 2009.
- 28. "Pancreatic stellate cells: partners in crime with pancreatic cancer cells". Symposium on Integrated Signalling in Tumor/Stromal Interaction, Keystone Symposia on Molecular and Cellular Biology, to be held in Victoria, British Columbia, March 2010.

- 29. "Role of pancreatic stellate cells in chronic pancreatitis". Symposium on Chronic Pancreatitis: Pathogenesis to Treatment, Joint Meeting of the International Association of Pancreatology and the Japan Pancreas Society, Fukuoka, July 2010
- 30. "Alcohol and pancreatic cancer" ISBRA Satellite Meeting and Nordmann Award Meeting to be held in Heidelberg September 2010.
- 31. "Role of pancreatic stellate cells in chronic pancreatitis" Joint meeting of the International Association of Pancreatology and the Indian Pancreas Club, to be held in Kochi, India, February 2011.
- 32. "Pancreatic stellate cells" Consensus meeting on Pancreatic Stellate Cell Biology to be held in Ulm, Germany, March 2011.
- 33. "Pancreatic stellate cell biology: what's new? 43rd Meeting of the European Pancreatic Club to be held in Magdeburg, Germany, June 2011.
- 34. Session Chair "Recent Advances in Chronic Pancreatitis" Asian Oceanic Pancreatic Association Scientific Meeting, to be held in Seoul, Korea, September 2011
- 35. "Pancreatic stellate cells and pancreatic cancer" The 6th International Symposium on ALPD and Cirrhosis "From Stem Cells to Global Health" to be held in Fukuoka, Japan, October 2011.

National Conferences:

- 1. "Desmoplastic reactions: what's happening at the tumour edge?" Australian Gastroenterology Week, Gastroenterological Society of Australia, October, 1999.
- 2. "Modern concepts in pathophysiology of pancreatitis." Australian Gastroenterology Week, Gastroenterological Society of Australia, October, 1999.
- 3. "New approaches to chronic pancreatitis". Symposium titled "Offerings from Science", Australian Gastroenterology Week, Cairns, October 2003.
- 4. "Pancreatic stellate cells: their claim to fame" Symposium titled "Researchers on the Move", Australian Gastroenterology Week, Cairns, October 2003.
- 5. "Stromal interactions: how it subverts the body and hosts and promotes cancer progression. Annual Scientific Meeting of the Australasian Gastrointestinal Trials Group, Sanctuary Cove, September 2004.
- 6. "Pancreatic cancer". Australian Institute of Medical Scientists National Scientific Meeting, Sydney, July 2005.

- 7. "Hepatobiliary and rare tumours: opportunities for translational research in clinical trials" Annual Scientific Meeting of the Australasian Gastrointestinal Trials Group, Brisbane, October 2005.
- 8. "New insights into pancreatic fibrogenesis" Australian Gastroenterology Week, Sydney, October 2009.
- 9. "Experimental models of alcoholic pancreatitis" Annual Meeting of the Australasian Pancreatic Club, Melbourne, November 2010.

Other Invited Presentations:

- 1. "Pathogenesis of alcoholic pancreatitis". Sydney Gut Club, April, 1993.
- 2. "Effects of ethanol on pancreatic digestive enzymes". Department of Surgery, Massachusetts General Hospital, Boston, USA, May, 1994.
- 3. "Alcoholic pancreatitis." Department of Gastroenterology, University of Rostock, Rostock, Germany, July, 2000.
- 4. "Role of pancreatic stellate cells in the pathogenesis of pancreatic cancer." Department of Pathology, Liverpool Hospital, Sydney, Australia, June 2001.
- 5. "The Drinker's Pancreas" Grand Rounds, South Western Area Gastroenterology Service, Bankstown-Lidcombe Hospital, August 2001.
- 6. "Role of pancreatic stellate cells in fibrogenesis" Australasian Pancreatic Club Meeting, Sydney, Australia, March 2002.
- 7. "Stellate cells and the drinker's pancreas" Gut Club, Sydney, Australia, November 2002.
- 8. "Pancreatic stellate cells : new kids on the block" Seminar, ANZAC Research Institute, Concord Hospital, September 2003.
- 9. "Alcohol and pancreatic stellate cells". Research Seminar, Department of Medicine, Veterans Affairs Greater Los Angeles Healthcare System, November, 2003.
- 10. "Pancreatic fibrogenesis" Department of Gastroenterology, University of Leipzig, Germany, October 2004.
- 11. "Tumour-stromal interactions in pancreatic cancer; role of pancreatic stellate cells". Department of Gastroenterology, Endocrinology and Internal Medicine, University of Greifswald, Germany, October 2004.
- 12. "Desmoplastic reaction in pancreatic cancer: friend or foe?" Department of Cancer Biology's Seminar Series, MD Anderson Cancer Center, Houston, May 2005.
- 13. "Pancreatology in Australia : current clinical practice and research" Inaugural International Meeting of the Asian Oceanic Pancreatic Association, Tokyo, July 2005.

- 14. "Pathogenesis of pancreatic fibrosis" Dept of Surgery, Tufts New England Medical Center, Boston, May 2006.
- 15. "Role of pancreatic stellate cells in pancreatic cancer" Dept of Surgery, University of Massachussetts, Worcester, May 2006.
- 16. "Pancreatic stellate cells : partners in crime with pancreatic cancer cells" Department of Surgery, University of Minneapolis, Minneapolis, May 2008.
- 17. "Alcohol, endotoxin and the pancreas To drink or not to drink, is that the question?" Department of Surgery, University of Minneapolis, Minneapolis, May 2008.
- 18. "Pancreatic stellate cells and pancreatic cancer cells: an unholy alliance" Novartis Pharmaceuticals, Boston, June 2008.
- 19. Pancreatic stellate cells: partners in crime with pancreatic cancer cells" Department of Surgery, Royal North Shore Hospital, Sydney, October 2008.
- 20. "Alcoholic pancreatitis and pancreatic cancer what's new?" Department of Gastroenterology and Hepatology, Kasturba Medical College, Manipal, India, November 2008
- 21. "Pancreatic stellate cells and pancreatic cancer cells: an unholy alliance" Oncology Group, Prince of Wales Hospital, Sydney, April 2009.
- 22. "Role of pancreatic stellate cells in alcoholic pancreatitis, pancreatic cancer and exocrine secretion" Alcohol Research Group seminar, VA Medical Centre, UCLA, Los Angeles, June 2009.
- 23. "Pancreatic stellate cells what's new? Centenary Research Institute Seminar Series, Royal Prince Alfred Hospital, Sydney, July 2009

Reviewer of Manuscripts for:

Gut

Gastroenterology

American Journal of Physiology

American Journal of Pathology

Pancreas

Pancreatology

Biochemical Pharmacology

Free Radical Research

Journal of Laboratory and Clinical Medicine

Journal of Gastroenterology and Hepatology

Laboratory Investigation

Molecular Cancer

World Journal of Gastroenterology

Reviewer of PhD theses: University of Sydney, University of Melbourne, Flinders

University

Appointed Editor-in-Chief of the journal Pancreatology (September 2010)

Member, Editorial Board, American Journal of Physiology

Member, Editorial Board, Pancreas

Member, Editorial Board, Pancreatology

Member, Editorial Board, World Journal of Gastroenterology

Member, Editorial Board, Journal of Gastroenterology and Hepatology

Reviewer of Grant Applications for:

National Health and Medical Research Council, Australia

National Medical Research Council, Singapore

Wellcome Trust, UK

Cancer Research, UK

Auckland Medical Research Council, New Zealand

Health Research Council, New Zealand

Membership of Committees:

Member Academic Board, UNSW

Member Committee on Research of the Academic Board, UNSW

Deputy

Presiding Member (2007-2008) Animal Care and Ethics Committee B, UNSW

Member Ethics Online Steering Committee, UNSW

Member (2007-2008) Qualifications Committee (for A/Prof promotions), UNSW

Presiding Member Faculty of Medicine

Chair Faculty Standing Committee, Faculty of Medicine, UNSW

Chair Faculty Board, Faculty of Medicine, UNSW

Chair Higher Degree Committee, Faculty of Medicine, UNSW

Member Faculty Education Committee, Faculty of Medicine, UNSW

Chair Assessment Review Group, Faculty of Medicine, UNSW

Member Honours Sub-Committee, Faculty of Medicine, UNSW

Member (2007-2008) Independent Learning Program Committee, Faculty of Medicine,

UNSW

Member Postgraduate Research Students Subcommittee, Faculty of Medicine,

UNSW

Member Faculty of Medicine Research Management Committee

Member Faculty Research Grants Program Assessment Committee

Founding Member

and Past President Australasian Pancreatic Club (APC)

Founding Member Asian Oceanic Pancreatic Association (AOPA)

Member Research Committee, Gastroenterological Society of Australia

Member International Society for Biomedical Research in Alcoholism (ISBRA)

Membership Committee

Member Abstract Selection Committee, European Pancreatic Club

Member Abstract Selection Committee, American Pancreatic Association

Supervision of Students and Staff:

Supervisor for

J McCarroll, PhD, 2001-2004 PhD, Project title: "Molecular mechanisms of pancreatic

stellate cell activation"

P Phillips, PhD, 2001-2004 PhD, Project title: "Role of pancreatic Stellate cells in

extracellular matrix remodelling"

S Park, PhD, 2001- PhD, Project Title: "Role of pancreatic stellate cells in the

pathogenesis of pancreatic cancer". (Student discontinued

studies in 2003 for family reasons).

S Joshi, PhD, 2005 -2006 **PhD,** Project Title: "Epithelial-mesenchymal interactions in

pancreatic cancer: role of pancreatic stellate cells" (Student

discontinued studies in 2006 for family reasons).

A Vonlaufen, 2007- 2009 **PhD**, Project title: "Pathogenesis of alcoholic pancreatitis"

Z.Xu, 2007- **PhD**, Project title: "Pathogenesis of pancreatic cancer"

S Yang, 2007- MSc, Project title: "Alcohol and the pancreas"

E Chow 2008 **BSc Honours**, Project title: "Gene profiling of pancreatic

stellate cells in pancreatic cancer"

Co-supervisor for

E Colvin, PhD, 2006- PhD, Project Title: "Molecular biology of pancreatic cancer"

Other Published Works (Abstracts):

- 1. Bhagwandeen SB, **Apte M**, Manwarring L, Dickeson J. Endotoxin induced hepatitis in alcoholic fatty livers of rats. Proc. Aust. Soc. for Exper. Pathol., 15th Annual Meeting, 1983. Oral presentation to the Australian Society for Experimental Pathology, 1983.
- 2. Bhagwandeen SB, **Apte M**, Banathy L. The spectrum of alcohol related hepatic injury in previously healthy road traffic accident victims. Oral presentation to the 28th Annual Conference of the Royal College of Pathologists of Australasia, 1983.
- 3. Bhagwandeen SB, **Apte M**, Manwarring L, Dickeson J. Alcoholic liver disease: Clinical and experimental aspects. Plenary Address, 24th Annual Congress of the South African Society of Pathologists, 1984.
- 4. Donnelly LP, Wilson JS, **Apte M**, Pirola RC. (1988) Chronic ethanol feeding depresses lipogenesis in rat adipose tissue. Aust NZ J Med, 18: 25. Oral presentation to the Australian Society of Medical Research, December, 1987.
- 5. Wilson JS, Donnelly LP, **Apte M**, Pirola RC. (1989) Effects of ethanol and protein deficiency on pancreatic lysosomes. Aust NZ J Med. 18: 68. Oral presentation to the Gastroenterological Society of Australia, May, 1988.
- 6. Wilson JS, **Apte M**, Thomas MC, Pirola RC. (1990) Cholesteryl esters may mediate the injurious effects of ethanol and protein deficiency on the pancreas. Gastroenterology, 98: A240.
- 7. Wilson JS, **Apte M**, Thomas MC, Pirola RC. (1990) Effect of cholesteryl esters on pancreatic lysosomes. Aust NZ J Med 20: 376. Oral presentation to the Gastroenterological Society of Australia, May, 1990.
- 8. **Apte M**, Wilson JS, Thomas MC, Pirola RC. (1990), Effects of ethanol, acetaldehyde and cholesteryl esters on pancreatic lysosomes. Proceedings of the 1990 World Congresses of Gastroenterology. Poster presentation to the World Congresses of Gastroenterology, August, 1990.
- 9. Haber PS, Wilson JS, **Apte M**, Pirola RC. (1991) Fatty acid ethyl esters increase pancreatic lysosomal fragility in vitro. Pancreas 6: 702. Poster presentation to the American Pancreatic Association, October, 1991.
- 10. **Apte M**, Wilson JS, McCaughan GW, Korsten MA, Haber PS, Pirola RC. (1993) Ethanol and dietary protein deficiency alter gene expression of pancreatic digestive enzymes. Gastroenterology 104: A293. Poster presentation to the American Gastroenterological Association, May, 1993.
- 11. Haber PS, Wilson JS, **Apte M**, Pirola RC. (1993) Chronic ethanol consumption increases rat pancreatic zymogen granule fragility. Gastroenterology 104: A307. Poster presentation to the American Gastroenterological Association, May, 1993.
- 12. **Apte M**, Wilson JS, McCaughan GW, Haber PS, Pirola RC. (1993) Effects of ethanol on gene expression of pancreatic digestive and lysosomal enzymes. J Gastroenterol

- Hepatol 8:A25. Oral presentation (plenary session) to the Gastroenterological Society of Australia, September, 1993.
- 13. **Apte M**, Wilson JS, McCaughan GW, Korsten MA, Haber PS, Pirola RC. (1994) Ethanol-induced alterations in gene expression correlate with the glandular content of pancreatic enzymes. Gastroenterology 106:A283. Oral presentation to the American Gastroenterological Association, May, 1994.
- 14. **Apte M,** Wilson JS, McCaughan GW, Haber PS, Pirola RC. Ethanol-induced alterations in gene expression correlate with glandular content of pancreatic enzymes. Poster presentation to the International Society of Biomedical Research into Alcoholism, Gold Coast, June 1994.
- Apte M, Wilson JS, McCaughan GW, Norton ID, Pirola RC. (1994). Ethanol and dietary protein deficiency increase gene expression of pancreatic lithostathine. J Gastroenterol Hepatol 9:A93. Oral presentation (plenary session) to the Gastroenterological Society of Australia, September, 1994.
- 16. Norton ID, **Apte MV**, Trent R, Pirola RC, Wilson JS. (1994) Heterozygosity for cystic fibrosis ΔF-508 mutation does not predispose alcoholics to pancreatitis. J Gastroenterol Hepatol 9:A89. Poster presentation to the Gastroenterological Society of Australia, September, 1994.
- 17. **Apte M**, Wilson JS, McCaughan GW, M Korsten, I Norton, Pirola RC. (1994) Ethanol and dietary protein deficiency increase gene expression of pancreatic lithostathine. International Journal of Pancreatology, 16:325. Oral presentation at the International Association of Pancreatology Meeting, November, 1994.
- 18. Norton ID, **Apte MV**, Veronese M, McCaughan GW, Pirola RC, Wilson JS. (1995) Rat pancreatic cytochrome P-450 2E1 (CYP2E1) mRNA is not increased by chronic ethanol feeding. Gastroenterology 108:A380.
- 19. **Apte M**, Norton I, Haber P, McCaughan G, Korsten M, Pirola R, Wilson J. (1995) Chronic ethanol administration increases gene expression of GP2 in rat pancreas. Gastroenterology 108:A342. Oral presentation to the American Gastroenterological Association Meeting, May, 1995.
- 20. Norton ID, **Apte MV**, Dixson H, Trent RJ, Pirola RC, Wilson JS. Cystic fibrosis heterozygosity and alcoholic pancreatitis. Gastroenterology 108:A380. Poster presentation to the American Gastroenterological Association Meeting, May, 1995.
- 21. **Apte M**, Norton I, Haber P, McCaughan G, Korsten M, Pirola R, Wilson J. (1995) Chronic ethanol administration decreases rat pancreatic GP2 content. J Gastroenterol Hepatol 10:A27. Oral presentation to the Gastroenterological Society of Australia, October, 1995.
- 22. Haber P, **Apte M**, Norton I, Korsten M, Pirola R, Wilson J. (1995). Does the pancreas metabolise ethanol? J Gastroenterol Hepatol 10:A34. Oral presentation (plenary session) to the Gastroenterological Society of Australia, October, 1995.

- Norton I, **Apte M**, Haber P, McCaughan G, Korsten M, Pirola R, Wilson J. (1996) P4502E1 is present in rat pancreas and is induced by chronic ethanol administration. Gastroenterology 110:A1280, 1996. Poster presentation to the American Gastroenterological Association, May, 1996.
- 24. Norton I, **Apte M**, Haber P, McCaughan G, Korsten M, Pirola R, Wilson J. (1996) P4502E1 is present in rat pancreas and is induced by chronic ethanol administration. J Gastroenterol Hepatol 11:A87. Oral presentation to the Gastroenterological Society of Australia, September, 1996.
- 25. Norton I, **Apte M**, Haber P, Applegate T, Tuch B, Crouch R, McCaughan G, Pirola R, Wilson J. (1996) Pancreatic apoptosis and oxidant stress in a rat model of chronic iron overload. J Gastroenterol Hepatol 11:A113. Poster presentation to the Gastroenterological Society of Australia, September, 1996.
- Haber PS, **Apte MV**, Norton ID, Korsten MA, Pirola RC, Wilson JS. (1996) Ethanol oxidation by pancreatic acinar cells is comparable to that of hepatocytes. Gastroenterology 110:A394, 1996. Poster presentation to the American Gastroenterological Association.
- 27. Norton I, **Apte M**, Haber P, Applegate T, Tuch B, Crouch R, McCaughan G, Pirola R, Wilson J. (1996) Pancreatic apoptosis and oxidant stress in a rat model of chronic iron overload. Pancreas 13:A452. Poster presentation to the American Pancreatic Association, November, 1996.
- 28. **Apte M,** Norton I, Haber P, Applegate T, McCaughan G, Korsten M, Pirola R, Wilson J. Ethanol-induced increases in pancreatic enzyme content a dietary artefact? Gastroenterology 112:A426,1997. Poster presentation to the American Gastroenterological Association, May, 1997.
- 29. Haber PS, Norton ID, **Apte MV**, Applegate TL, Korsten MA. Identification of stellate cells in the rat pancreas. Gastroenterology 112:A446,1997. Poster presentation to the American Gastroenterological Association, May, 1997.
- 30. **Apte M,** Haber P, Applegate T, Norton I, Korsten M, Pirola R, Wilson J. Generation of fatty acid ethyl esters by rat pancreatic acini: comparison of oxidative and non-oxidative ethanol metabolism. Gastroenterology 112:A426,1997. Poster presentation to the American Gastroenterological Association, May, 1997.
- 31. **Apte M**, Norton I, Haber P, Applegate T, McCaughan G, Korsten M, Pirola R, Wilson J. Ethanol-induced increases in pancreatic enzyme content a dietary artefact?. J Gastroenterol Hepatol, 12:A54, 1997. Poster presentation to the Gastroenterological Society of Australia, October, 1997.
- 32. Norton I, **Apte M**, Haber P, Lux O, Pirola R, Wilson J. Chronic ethanol administration causes oxidative stress in the rat pancreas. J Gastroenterol Hepatol, 12:A34, 1997. Poster presentation to the Gastroenterological Society of Australia, October, 1997.
- 33. **Apte MV**, Haber PS, Applegate TL, Norton ID, Pirola, RC, Wilson JS. Identification, isolation and culture of stellate cells from rat pancreas. J Gastroenterol Hepatol,

- 12:A69, 1997. Oral (plenary) presentation to the Gastroenterological Society of Australia, October, 1997.
- 34. **Apte MV**, Haber PS, Applegate TL, Norton ID, Pirola, RC, Wilson JS. Identification, isolation and culture of stellate cells from rat pancreas. Pancreas 14:A495, 1997. Oral presentation to the American Pancreatic Association, November, 1997.
- 35. Haber PS, Norton ID, Norris MD, **Apte MV,** Pirola RC, Roberts-Thomson IC, Wilson JS. Is the 5T mutation in intron 8 of the cystic fibrosis gene associated with alcoholic pancreatitis? Gastroenterology, 114:A466, 1998. Poster presentation at the annual meeting of the American Gastroenterological Association, May 1998.
- Haber P, Keogh G, **Apte M,** Moran C, Pirola R, McCaughan G, Korsten M, Wilson J. Pancreatic stellate cells are activated in human and experimental pancreatic fibrosis. Gastroenterology, 114:A466, 1998. Poster presentation at the annual meeting of the American Gastroenterological Association, May 1998.
- 37. Haber PS, Norton ID, Norris MD, **Apte MV,** Pirola RC, Roberts-Thomson IC, Wilson JS. Is the 5T mutation in intron 8 of the cystic fibrosis gene associated with alcoholic pancreatitis? J Gastroenterol Hepatol, 13:A165, 1998. Poster presentation at the annual meeting of the American Gastroenterological Association, May 1998.
- 38. **Apte MV**, Haber PS, Moran CS, McCaughan GW, Korsten MA, Pirola, RC, Wilson JS. Pancreatic stellate cells produce collagen and other extracellular matrix proteins and exhibit a proliferative response to platelet-derived growth factor (PDGF). Gastroenterology, 114:A438, 1998. Oral presentation at the annual meeting of the American Gastroenterological Association, May 1998.
- 39. Haber P, Keogh G, **Apte M**, Moran C, Pirola R, McCaughan G, Korsten M, Wilson J. Pancreatic stellate cells are activated in human and experimental pancreatic fibrosis. J Gastroenterol Hepatol, 13:A181, 1998. Miniposter presentation at the annual meeting of the Gastroenterological Society of Australia, October, 1998.
- 40. **Apte MV**, Haber PS, Moran CS, McCaughan GW, Korsten MA, Pirola, RC, Wilson JS. Pancreatic stellate cells produce collagen and are activated by proinflammatory cytokines. J Gastroenterol Hepatol, 13:A181, 1998. Miniposter presentation at the annual meeting of the Gastroenterological Society of Australia, October, 1998.
- 41. Haber P, Keogh G, **Apte M**, Moran C, Pirola R, McCaughan G, Korsten M, Wilson J. Pancreatic stellate cells are activated in human and experimental pancreatic fibrosis. Pancreas 44:437, 1998. Oral presentation at the annual meeting of the American Pancreatic Association, November, 1998.
- 42. **Apte MV**, Haber PS, Darby SJ, Rodgers SC, McCaughan GW, Korsten MA, Pirola, RC, Wilson JS. Fibrogenic effect of oxidant stress on pancreatic stellate cells. Pancreas 44:424, 1998. Oral presentation at the annual meeting of the American Pancreatic Association, November, 1998.
- 43. Norton I, Butler W, Roberts-Thomson I, Frenzer A, Apte MV, Pirola RC, Wilson JS.

- Do polymorphisms in the cytochrome P4502E1 gene predispose heavy drinkers to pancreatitis or cirrhosis? Gastroenterology, 116:A1153, 1999.
- 44. **Apte MV,** Haber PS, Darby SJ, Rodgers SC, McCaughan GW, Korsten MA, Pirola, RC, Wilson JS. Activation of pancreatic stellate cells by ethanol and its metabolite acetaldehyde: implications for alcohol-induced pancreatic fibrosis. Gastroenterology, 116:A1176, 1999. Poster presentation at the annual meeting of the American Gastroenterological Association, May 1999.
- 45. **Apte M**, Darby S, Phillips P, Fahmy R, McCaughan G, Pirola R, Wilson J. Alcohol causes pancreatic fibrosis via activation of pancreatic stellate cells: an in vitro study. J Gastroenterol Hepatol, 14:A115, 1999. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 1999.
- 46. **Apte M**, Darby S, Phillips P, Fahmy R, McCaughan G, Korsten M, Pirola R, Wilson J. Role of pancreatic stellate cells in the pathogenesis of alcoholic pancreatic fibrosis. Pancreas, 14:414, 1999. Oral presentation at the annual meeting of the American Pancreatic Association, November, 1999.
- 47. Mews PJ, Phillips PA, Fahmy RG, McCaughan GW, Korsten MA, Pirola RC, Wilson JS, **Apte MV**. Pancreatic stellate cells are activated by tumour necrosis factor α (TNFα) implications for pancreatic fibrogenesis. Gastroenterology 118:A424, 2000. Poster presentation at the annual meeting of the American Gastroenterological Association, May 2000.
- 48. Mews P, Phillips P, Korsten M, Pirola R, Wilson JS, **Apte MV**. Collagen synthesis by pancreatic stellate cells response to inflammatory cytokines. Digestion 61:258, 2000. Oral presentation at the annual meeting of the European Pancreatic Club, July 2000.
- 49. Mews P, Phillips P, Korsten M, Pirola R, Wilson JS, **Apte MV**. Collagen synthesis by pancreatic stellate cells response to inflammatory cytokines. Journal of Gastroenterology and Hepatology 15:J18, 2000. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2000.
- 50. Phillips P, Pirola R, McCaughan G, Korsten M, Wilson J, **Apte M**. Pancreatic stellate cells secrete matrix metalloproteinases implications for extracellular matrix turnover. Journal of Gastroenterology and Hepatology 15:J74, 2000. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2000.
- 51. Phillips P, Pirola R, McCaughan G, Korsten M, Wilson J, **Apte M**. Pancreatic stellate cells secrete matrix metalloproteinases implications for extracellular matrix turnover. Pancreas 21:470, 2000. Oral presentation to the American Pancreatic Association, November, 2000
- 52. **Apte M**, Keating J, Phillips P, Friess H, Buchler M, Kosten M, Pirola R, McCaughan G, Korsten M, Wilson J. Endogenous expression of proinflammatory cytokines and nerve growth factor by pancreatic stellate cells implications for fibrosis and neural changes in chronic pancreatitis. Journal of Gastroenterology and

- Hepatology 16:A114, 2001. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, September, 2001.
- Phillips P, Wu M-J, McCarroll J, Park S, Korsten M, Wilson J, **Apte M**. Migratory capacity of pancreatic stellate cells and its stimulation by platelet-derived growth factor (PDGF). Pancreas 23:455, 2001. Oral presentation to the American Pancreatic Association, November, 2001.
- 54. **Apte M**, Keating J, Phillips P, Friess H, Buchler M, Kosten M, Pirola R, McCaughan G, Korsten M, Wilson J. Endogenous expression of proinflammatory cytokines and nerve growth factor by pancreatic stellate cells implications for fibrosis and neural changes in chronic pancreatitis. Pancreas 23:428, 2001. Oral presentation to the American Pancreatic Association, November, 2001.
- McCarroll J, Phillips P, Wu M-J, Park S, Korsten M, Wilson J, **Apte M**. Both ethanol and acetaldehyde induce MAP kinase activity in pancreatic stellate cells. Pancreas 23:450, 2001. Poster presentation at the annual meeting of the American Pancreatic Association, November, 2001.
- Phillips P, Wu M-J, McCarroll J, Park S, Korsten M, Wilson J, **Apte M**. Migratory capacity of pancreatic stellate cells and its stimulation by platelet-derived growth factor (PDGF). Poster presentation to the World Congress of Gastroenterology, 2002.
- 57. McCarroll J, Phillips P, Wu M-J, Park S, Korsten M, Wilson J, **Apte M**. Both ethanol and acetaldehyde induce MAP kinase activity in pancreatic stellate cells. Poster presentation to the World Congress of Gastroenterology, 2002.
- 58. Phillips P, Wu M-J, McCarroll J, Park S, Korsten M, Wilson J, **Apte M**. Pancreatic stellate cell migration: Effect of basement membrane components and role of the phosphatidylinositol 3' kinase (PI3 kinase) pathway. Gastroenterology, 122: A4152, 2002. Poster presentation at the annual meeting of the American Gastroenterological Association, May 2002.
- J. McCarroll, P. Phillips, S. Park, E. Doherty, R. Pirola, J. Wilson, M. Apte. Activation of pancreatic stellate cells by ethanol and acetaldehyde is mediated by the p38 kinase pathway. Journal of Gastroenterology and Hepatology 17:A183, 2002. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2002.
- 60. S. Park, P. Phillips, R.K Kumar, E. Doherty, J. McCarroll, R. Pirola, J. Wilson, M. Apte. Tumour-stromal interactions in the pathogenesis of pancreatic cancer. Journal of Gastroenterology and Hepatology 17:A184, 2002. Poster presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2002.
- P. Phillips, M-J. Wu, E. Doherty, R.K. Kumar, J. McCarroll, S. Park, R. Pirola, J. Wilson, M. Apte. Cell migration: A novel aspect of pancreatic stellate cell biology. Journal of Gastroenterology and Hepatology 17:A184, 2002. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2002.

- S. Park, P. Phillips, R.K Kumar, E. Doherty, J. McCarroll, R. Pirola, J. Wilson, M. Apte. Tumour-stromal interactions in the pathogenesis of pancreatic cancer. Pancreas 25:444, 2002. Oral presentation at the annual meeting of the American Pancreatic Association, November, 2002.
- 63. J. McCarroll, P. Phillips, R. Pirola, J. Wilson, **M. Apte**. Oxidant stress induces the MAP kinase pathway in pancreatic stellate cells. Gastroenterology 24:A-616, 2003. Poster presentation to the American Gastroenterological Association, May 2003.
- 64. JA McCarroll, PA Phillips, N Santucci, R Pirola, J Wilson, **M Apte**. Vitamin A induces quiescence in culture-activated pancreatic stellate cells potential as an antifibrotic agent? Journal of Gastroenterology and Hepatology 18:B122, 2003. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2003.
- 65. PA Phillips, JA McCarroll, RK Kumar, S Park, R Pirola, JS Wilson, **M Apte**. Crosstalk between two major platelet derived growth factor (PDGF) induced signalling pathways in pancreatic stellate cells. Journal of Gastroenterology and Hepatology 18:B110, 2003. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2003.
- 66. JA McCarroll, PA Phillips, N Santucci, R Pirola, J Wilson, **M Apte**. Oxidant stress stimulates mitogen activated protein kinase (MAPK) and protein kinase C (PKC) activation in pancreatic stellate cells. Journal of Gastroenterology and Hepatology 18:B118, 2003. Oral presentation at the annual meeting of the Gastroenterological Society of Australia, October, 2003.
- 67. JA McCarroll, PA Phillips, N Santucci, R Pirola, J Wilson, **M Apte**. Vitamin A induces quiescence in culture-activated pancreatic stellate cells potential as an antifibrotic agent? Pancreas 27:396, 2003. Oral presentation at the annual meeting of the American Pancreatic Association, November, 2003.
- 68. PA Phillips, JA McCarroll, RK Kumar, S Park, R Pirola, JS Wilson, **M Apte**. Crosstalk between two major platelet derived growth factor (PDGF) induced signalling pathways in pancreatic stellate cells. Pancreas 27:402, 2003. Oral presentation at the annual meeting of the American Pancreatic Association, November, 2003.
- 69. P. Phillips, J. McCarroll, N. Santucci, R. Pirola, J. Wilson, M. Apte. Chronic alcohol feeding activates pancreatic stellate cells in vivo role in alcoholic pancreatic fibrosis. Submitted for the annual meeting of the American Gastroenterological Association to be held in May 2004.
- 70. JA McCarroll, PA Phillips, N Santucci, R Pirola, J Wilson, **M Apte**. Vitamin A induces quiescence in culture-activated pancreatic stellate cells potential as an antifibrotic agent? Oral presentation at the annual meeting of the Australasian Pancreatic Club, April 2004.
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