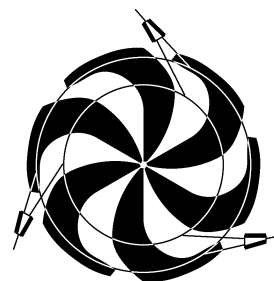


# TRIUMF



## ANNUAL REPORT SCIENTIFIC ACTIVITIES 2001

ISSN 1492-417X

**CANADA'S NATIONAL LABORATORY  
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UNDER A CONTRIBUTION FROM THE  
NATIONAL RESEARCH COUNCIL OF CANADA

OCTOBER 2002

*The contributions on individual experiments in this report are outlines intended to demonstrate the extent of scientific activity at TRIUMF during the past year. The outlines are not publications and often contain preliminary results not intended, or not yet ready, for publication. Material from these reports should not be reproduced or quoted without permission from the authors.*

## LIFE SCIENCES PROJECT PROPOSALS

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The following lists life sciences project proposals received up to the end of 2001 (missing numbers cover proposals that have been withdrawn or replaced by later versions, rejected, or combined with another proposal). Page numbers are given for those experiments which are included in this Annual Report.	
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LS6. Bone calcium resorption studies in pre- and peri-menopausal women using accelerator mass spectrometry [completed], <u>R.R. Johnson</u> , A. Priestman, J.C. Prior ( <i>UBC</i> ), A. Altman, W.Z. Gelbart, V. Sossi ( <i>TRIUMF</i> ), D. Berkovits, S. Ghelberg, M. Paul ( <i>Racah Inst., Hebrew U. Jerusalem</i> ), L.M. Shulman ( <i>Chaim Sheba Med. Centre</i> ), R. Chechik ( <i>Weizmann Inst.</i> ), E. Venzel ( <i>SFU</i> )	
LS7. PET 3D data quantification and integration into a research clinical environment [completed], K.S. Morrison, T.J. Ruth, V. Sossi, M.W. Stazyk ( <i>UBC-TRIUMF</i> ), K.R. Buckley ( <i>TRIUMF</i> ), J.S. Barney ( <i>VH&amp;HSC</i> ), D. Sirota, B.J. Snow ( <i>UBC</i> )	
LS8. Radiotracers for the physical and biosciences [active], L. Buchmann, T.J. Ruth, S.K. Zeisler ( <i>TRIUMF</i> ), A.D.M. Glass, R.R. Johnson, M. Lowe, C.E.R. Orvig ( <i>UBC</i> ), T.F. Budinger ( <i>Lawrence Berkeley National Lab</i> )	101
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LS12. A simulation platform for the design of position encoding multicrystal detectors [completed], A. Altman, <u>C. Moisan</u> , <u>J.G. Rogers</u> ( <i>TRIUMF</i> ), E. Hoskinson, G. Tsang ( <i>UBC</i> )	
LS13. Utility of 2-[F-18]-fluoro-2-deoxy-d-glucose SPECT imaging in the evaluation of patients with solitary pulmonary nodules [completed], A. Celler, D. Lyster, <u>D. Worsley</u> ( <i>UBC</i> ), M. Adam ( <i>TRIUMF</i> )	
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- LS21. Aluminum kinetics in plants [inactive], A. Glass, R.R. Johnson, L. Oliveira (*UBC*), K. Buckley, Z. Gelbart (*TRIUMF*), D. Berkovitz, M. Paul (*Hebrew U. Jerusalem*), E. Venczel (*SFU*)
- LS22. Virtual national biomedical tracer facility [inactive], T.J. Ruth, J.S. Vincent (*TRIUMF*), E.J. Peterson, D. Phillips (*Los Alamos National Lab*)
- LS24. Scanning for early detection and staging of breast cancer: a comparative study using FDG PET and MIBI SPECT [deferred], P.F. Cohen, P. Klimo (*Lions Gate H.-UBC*), M. Cackette (*EBCO Industries Ltd.*), J. Whiffen (*JALORN*), V. Sossi (*TRIUMF-UBC*), J. Porter (*Nordion Int.*), R.R. Johnson (*UBC*)
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- LS28. Evaluation of potentially viable myocardium with dobutamine myocardial SPECT imaging [completed], H. Abbey, A.-Y. Fung, L. Hook, D.M. Lyster, D.F. Worsley (*VH&HSC*), M. Adam, S. Jivan (*TRIUMF*)
- LS29. Production and distribution of FDG for clinical studies [active], D. Lyster, D. Worsley (*VH&HSC*), P. Cohen (*Lions Gate H.*), H. Nadel (*Children's H.*), M.J. Adam, S. Jivan, T.J. Ruth, V. Sossi (*TRIUMF*) 103
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- LS32.  $^{18}\text{F-H}_2^{18}\text{O}$  supply to the University of Alberta [active], S.A. McQuarrie, J.R. Mercer (*U. Alberta*), A.J.B. McEwan (*CCI*), R.R. Johnson (*UBC-EBCO*), T.J. Ruth (*UBC-TRIUMF*)
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