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*Not recommended for highly fragmented DNA or for damage due to DNA crosslinks

Proven Repair with the PreCR Repair Mix

<table>
<thead>
<tr>
<th>DNA Damage</th>
<th>Cause</th>
<th>Repaired by PreCR Repair Mix</th>
</tr>
</thead>
<tbody>
<tr>
<td>abasic sites</td>
<td>hydrolysis</td>
<td>✓</td>
</tr>
<tr>
<td>nicks</td>
<td>hydrolysis nucleases shearing</td>
<td>✓</td>
</tr>
<tr>
<td>thymidine dimers</td>
<td>UV radiation</td>
<td>✓</td>
</tr>
<tr>
<td>blocked 3´-ends</td>
<td>multiple</td>
<td>✓</td>
</tr>
<tr>
<td>oxidized guanine</td>
<td>oxidation</td>
<td>✓</td>
</tr>
<tr>
<td>oxidized pyrimidines</td>
<td>oxidation</td>
<td>✓</td>
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<tr>
<td>deaminated cytosine</td>
<td>hydrolysis</td>
<td>✓</td>
</tr>
<tr>
<td>fragmentation</td>
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<td>X</td>
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<tr>
<td>Protein-DNA crosslinks</td>
<td>formaldehyde</td>
<td>X</td>
</tr>
</tbody>
</table>

Advantages:
- Suitable for PCR, microarrays and other DNA technologies
- Does not harm DNA template
- Can be used in conjunction with any thermophilic polymerase
- PCR can be done directly on repair reaction
- Easy-to-use protocols included

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Investigator Recruitment in Cancer Genetics
National Human Genome Research Institute

The Cancer Genetics Branch (CGB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit an outstanding tenure-track investigator to pursue innovative, independent research in cancer genetics. General areas of interest include, but are not limited to:

- Cancer Gene Discovery
- Comparative Cancer Genomics
- Genetic Epidemiology
- Molecular Profiling of Tumors
- Functional Genomics of Cancer
- Genome Instability in Cancer
- Markers for Early Detection
- Genetics of Tumor Progression

The successful candidate will be able to take advantage of interactions with a highly collegial group of scientists within NHGRI and the NIH campus as a whole. In addition, they will have access to NHGRI’s outstanding core laboratories, as well as the unparalleled resources of the NIH Clinical Center.

Candidates must have a Ph.D., M.D., or equivalent degree, as well as comprehensive, advanced training and a record of accomplishment in one of the targeted areas. This position includes generous start-up funds, an ongoing commitment of research space, laboratory resources, and positions for personnel and trainees.

Interested applicants should submit a curriculum vitae, a three-page description of their proposed research, and three letters of recommendation through our online application system at http://research.nhgri.nih.gov/apply.

The closing date for applications is November 16, 2007.

For more information on CGB and NHGRI’s Intramural Program, please see http://www.genome.gov/DIR. Specific questions regarding the recruitment may be directed to Dr. Larry Brody, the Search Chair, at lbrody@helix.nih.gov. Questions may also be directed to Dr. Elaine Ostrander, the CGB Branch Chief, at eostrand@mail.nih.gov.

Interested applicants should also be aware of two concurrent tenure-track faculty searches being conducted by NHGRI’s Genetics and Molecular Biology Branch (GMBB) and Genetic Disease Research Branch (GDRB). Information on these searches may be found at http://genome.gov/11509039. Qualified candidates are welcome to apply for multiple searches; please note that a separate application must be filed for each search for which you wish to be considered.

Investigator Recruitment in Genetics and Molecular Biology
National Human Genome Research Institute

The Genetics and Molecular Biology Branch (GMBB) of the National Human Genome Research Institute (NHGRI) is seeking to recruit outstanding tenure-track investigators to pursue innovative, independent research. The faculty within GMBB are highly interactive and use a variety of approaches to understand and develop new treatments for genetic and complex diseases. Current areas of research include hematopoiesis, the genetic disorders of red blood cells, cellular immunology, gene therapy, leukemogenesis, genomic instability in disease, the genetics of skin diseases, and the genomics of the skin microbiome. Of particular interest are candidates with research interests in the following areas:

- Clinical genetics
- Basic genetic/genomics research
- Clinical/translational research
- Application of genomics tools to understanding human disease

The successful candidate will be able to take advantage of interactions with a highly collegial group of scientists within NHGRI and the NIH campus as a whole. In addition, the successful candidate will have access to NHGRI’s outstanding core laboratories, as well as the unparalleled resources of the NIH Clinical Center.

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Department of Health and Human Services • National Institutes of Health
DHHS and NIH are Equal Opportunity Employers and encourage applications from women and minorities.
The Department of Molecular, Cell and Developmental Biology at the University of California, Santa Cruz invites applications for a tenure-track faculty position. We seek candidates whose research centers on fundamental problems involving the biological roles of RNA. This person's research will expand and complement our existing RNA research areas which include RNA processing, ribosomes, catalytic RNA, genomics, computational biology, ribonucleoprotein assembly, RNA stability, RNA-protein interactions, and the use of cryo-electron microscopy and X-ray crystallography to study RNA and ribonucleoprotein complex structure. Research space is located within the MCD Biology Department in Sinsheimer Laboratories. The successful candidate will be associated with the Center for Molecular Biology of RNA. The RNA Center provides a collaborative research atmosphere with a broad range of interests. More information about the Center for Molecular Biology of RNA can be found at http://rna.ucsc.edu/rnacenter/. The successful candidate will also have an opportunity to interact with faculty doing related research in the departments of Chemistry & Biochemistry and Biomolecular Engineering, facilitated by the Center for Biomolecular Science & Engineering and the Stem Cell Facility.

This appointment will be made at the Assistant Professor level. The successful candidate will be expected to establish a vigorous, externally-funded research program, contribute to the intellectual vitality of the MCD Biology department, and teach at both the undergraduate and graduate levels. We offer an interactive research environment, a strong modern infrastructure, and a competitive startup package. Colleagues who can contribute to the diversity and excellence of the academic community through their research, teaching, service and/or leadership are particularly encouraged to apply.

**RANK**: Assistant Professor (tenure track)

**SALARY**: Commensurate with qualifications and experience

**MINIMUM QUALIFICATIONS**: Requires a Ph.D. or equivalent in biology or a related field, postdoctoral research experience, and demonstrated potential for university teaching.

**POSITION AVAILABLE**: Fall 2008

**TO APPLY**: Submit hard copies of a letter of application, curriculum vitae, copies of reprints, and concise description of research plans and teaching experience to the address listed below. Applicants are invited to submit a statement addressing their contributions to diversity through their research, service and/or teaching. Also arrange for three letters of recommendation to be sent to this address:

*All letters will be treated as confidential, please direct your reference writers to UCSC's confidentiality statement at http://www2.ucsc.edu/ahr/academic_policies_and_procedures/cappm/confstm.htm."

Faculty Search Committee
Department of MCD Biology
University of California, Santa Cruz
1156 High Street
Santa Cruz, California 95064

Please refer to Position #841-08 in your reply.

**CLOSING DATE**: The position will remain open until filled. Screening will begin with applications postmarked by October 15, 2007. To ensure full consideration, applications must arrive by the initial screening date.

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The University of California, Santa Cruz is an Affirmative Action/Equal Employment Opportunity Employer, committed to excellence through diversity. We strive to establish a climate that welcomes, celebrates, and promotes respect for the contributions of all students and employees.

Inquiries regarding the University’s equal employment opportunity policies may be directed to: Equal Employment Opportunity/Affirmative Action Office at the University of California, Santa Cruz, CA 95064; (831) 459-2686. Under Federal law, the University of California may employ only individuals who are legally able to work in the United States as established by providing documents as specified in the Immigration Reform and Control Act of 1986.

If you need assistance due to a disability please contact the Academic Human Resources Office at 499 Clark Kerr Hall (831) 459-4300. This position description is available in alternate formats, which may be requested from Academic Human Resources at (831) 459-4300.

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7/23/07