Psoriasis Research Trends

- Psoriasis
- Psoriatic Arthritis

https://scholar.google.com/
<table>
<thead>
<tr>
<th>Funding Mechanism</th>
<th>Award Value</th>
<th>Duration</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Every Year</strong></td>
<td></td>
<td></td>
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<tr>
<td>Discovery Grants</td>
<td>$75,000/year</td>
<td>One year</td>
<td>Preliminary and proof-of-concept studies</td>
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<tr>
<td>Translational Grants</td>
<td>$100,000/year</td>
<td>Two years</td>
<td>Advance basic science toward treatment</td>
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<tr>
<td>Fellowships</td>
<td>$50,000/year</td>
<td>One year</td>
<td>Train clinicians in psoriasis research</td>
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<td><strong>In 2015</strong></td>
<td></td>
<td></td>
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<tr>
<td>Psoriatic Arthritis Research Grant</td>
<td>$100,000/year</td>
<td>Two years</td>
<td>PsA Translational Grant. Co-funded with ANRF</td>
</tr>
<tr>
<td>NIH-NPF Robertson Fellowship in Translational Medicine</td>
<td>$100,000/year</td>
<td>Two years</td>
<td>Clinical comorbidities research with Nehal Mehta at NHLBI</td>
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<tr>
<td><strong>Proposed for 2016</strong></td>
<td></td>
<td></td>
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<tr>
<td>Early Career Award</td>
<td>$50,000?</td>
<td>One year</td>
<td>Graduate students and postdoctoral researchers</td>
</tr>
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</table>
### 2015 Grant Applications

<table>
<thead>
<tr>
<th>Total</th>
<th>Discovery</th>
<th>Translational</th>
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</thead>
<tbody>
<tr>
<td>96</td>
<td>65</td>
<td>31</td>
</tr>
</tbody>
</table>

#### Psoriasis and Psoriatic Arthritis

- **Psoriasis**: 70%
- **Psoriatic Arthritis**: 30%

#### Number of Applications by Category

- Pregnancy: 0
- Cost burden: 0
- Pediatric: 0
- PRO's: 0
- Itch: 0
- Triggers: 0
- Models: 2
- Biomarkers: 4
- Comorbidities: 5
- Treatments: 6
- Causes: 40

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*Source: National Psoriasis Foundation*
Cell Migration in PsO


**Conclusion:** In PsO, neutrophil infiltrates in skin do NOT respond differently.


**Conclusion:** In PsO, CCR5+ regulatory T cells ARE deficient.
Cell Migration in PsO


Conclusion: CCR6 is required for T migration to epidermis
3D Tissue Models of PsO

3D Tissue Models of PsO

Protein Signaling and PsO

Kv1.3 Blockers in PsO


*In a mouse model of psoriasis:*

![PAP-1](image1)

No PAP-1

Yes PAP-1

NPF Grant Winners
Genetic Factors in Immunity